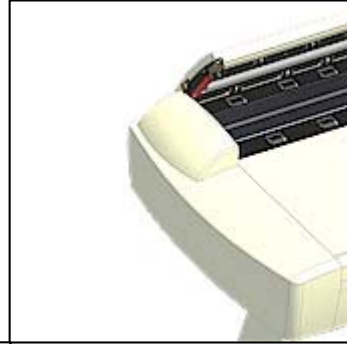
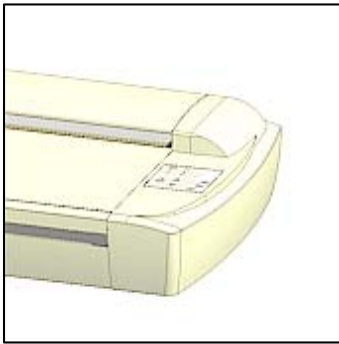


Operator's Guide



Wide Format Scanners



MODELS:

- 54" - GH67D
- 42" - GS67D, GT67D,
- 36" - GM67D, GL67D, GK67D
- 36" - HA68A, HB68A
- 25" - GQ67D, GR67D



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FCC Regulations

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1. About This Guide

This guide explains how to operate and maintain your wide format scanner. The guide assumes basic knowledge of your computer and operating system and does not repeat material from their documentation.

Be sure to refer to:






- The *Installation Guide* – accessed from the menu on the *WIDEsystem TOOLS* CD-ROM – describes installation of your driver and scan-to-net setup issues.
- The readme.htm file in the ws folder on the *WIDEsystem TOOLS* CD-ROM – contains the most current installation and OS compatibility issues.
- *WIDEsystem TOOLS Help* – Press F1 after installing and opening WIDEsystem. – Contains information on using the WIDEsystem application and Scanner Maintenance software.


Identify your scanner model icon

This operator's guide covers several scanner models, although there are individual differences between the models. Use the guide's **scanner type icons** to direct you to descriptions about your specific scanner model. Topics describing scanner functions that apply solely for specific models will be marked with one or several of the icons shown in the table below. Topics describing functions that apply for all models will be marked with all the icons.

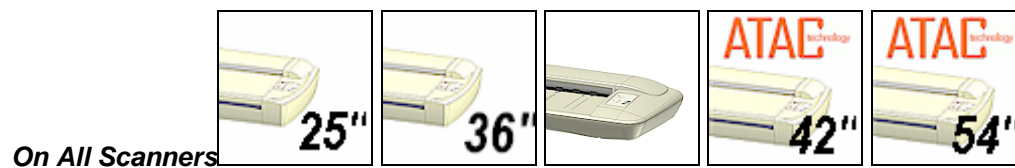
Before proceeding, identify the icon that applies to your scanner model. You can then use the icon throughout this guide to find the function description that applies for your specific scanner.

If in doubt as to which icon refers to your scanner model, see the *Model* ID on the sticker on the back of the scanner. Models not listed in the table below are not within the scope of this guide.

| Icon in Guide | Applies for scanners... | Model IDs |
|---|--|---|
|  | 25" scanners with FireWire and USB | GQ67D GR67D |
|  | 36" scanners with FireWire and SCSI | GM67D GL67D GK67D |
|  | 36" scanners with FireWire and USB Replaceable parts. | HA68A HB68A |
|  | 42" scanners with FireWire and USB ATAC and replaceable parts. ENERGY STAR [®] compliant. |  GS67D GT67D |

| | | |
|---|---|-------|
|  The logo features the text "ATAC" in a bold, orange font with "technology" in a smaller font below it. To the right is a stylized illustration of a scanner with the number "54" in a large, bold, black font below it. | 54" scanners with FireWire and SCSI ATAC and replaceable parts. | GH67D |
|---|---|-------|

2. Scanner System Requirements





- PC or supported workstation.
- Compatible Windows operating system – View the ws/readme.htm file on the *WIDEsystem TOOLS* CD-ROM.
- USB port, enabled FireWire Port, or an SCSI interface-kit matching your workstation.
- The *WIDEsystem TOOLS* CD supplied with your scanner.
- Scanning software and compatible third party software.
- Grounded power outlet.


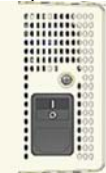

3. Installation

3.1 Installation Steps

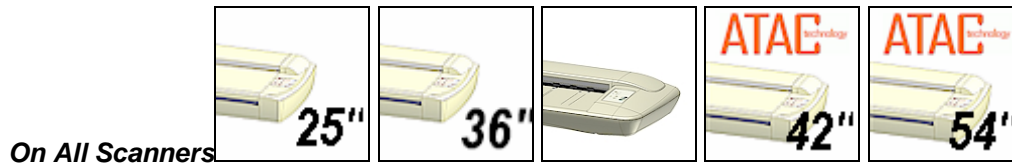


To get your scanner up and running, follow the steps below in their written order. You will find detailed descriptions of each step in the sections specified under the column “Instructions in section...”.

| Step number | Description | Instructions in section... |
|-------------|--|----------------------------|
| 1 | <p>Insert WIDEsystem TOOLS CD-ROM into your PC.</p> <p> IMPORTANT : DO NOT YET CONNECT THE SCANNER TO POWER OR PC. You will <i>install WIDEsystem</i> before you connect the scanner or install any scanner software applications. Your scanner drivers are automatically installed with WIDEsystem and your PC will then be fully prepared to detect and setup the newly connected scanner device. Start up the WIDEsystem TOOLS CD-ROM by inserting the CD-ROM into your PC. Normally the setup program interface will start automatically. If it does not, see section 3.2 for instructions on manual startup.</p> | 3.2 |
| 2 | <p>Install WIDEsystem software Click on the option <i>Install WIDEsystem Software</i> from CD main menu or run the setup.exe program directly from the WIDEsystem (ws) folder on the CD-ROM. Follow the installation instructions that appear on your screen.</p> | 3.2 |
| 3 | <p>Install Scanner Maintenance Software Click on the option <i>Install Scanner Maintenance Software</i> from CD's menu. Follow the instructions that appear on your screen.</p> | 3.2 |
| 4 | <p>Shut down (power off) the PC Your PC is now prepared and must be powered off before connection with the scanner.</p> | |
| 5 | <p>Perform Preliminary Maintenance – Cleaning Clean your scanner's flat surface so dirt and dust are not dragged into the scan area with the original. Clean the internal Scan area.</p> | 3.10, 7.2 |
| 6 | <p>Set up your scan station and control the smart card Your wide format copy scanner should be placed either on the specially designed stand-alone floor stand or on a sturdy table. For sheet feed models, make sure there is enough space behind the scanner to allow the media to run out. Make sure that the scanner's smart card is in place.</p> | 3.3, 3.4 |
| 7 | <p>Connect interface : cable to scanner and PC</p> | 3.5, 3.6, 3.7, 3.8 |
| 8 | <p>Connect scanner power cable</p> <p> The scanner is equipped with a three-wire (pin) grounding type plug. If you cannot insert the plug into your outlet, contact your electrician to replace the outlet and ensure a grounded power connection. Do not try to defeat or ignore the purpose of the grounding-type plug.</p> | |

| | | |
|------------------|---|------------|
| |  | |
| <p>9</p> | <p>Turn on the Scanner To turn on the scanner - at back of the scanner, plug in the power cable and flip the Outlet Switch to ON. The scanner starts the init and self test sequence.</p>  <p><i>Power outlet and switch is found at the back of the scanner</i></p> | |
| <p>10</p> | <p>Turn on the PC</p>  <p>Make sure the PC connected to the scanner is likewise power-connected to a grounding-type power outlet with a three-wire (pin) grounding type plug.</p> | |
| <p>11</p> | <p>Verify installation of new hardware Double click on the WIDsystem scanner icon on the Windows system tray. The program should detect a Selected Scanner in the dialog.</p> | <p>3.9</p> |
| <p>12</p> | <p>Run preliminary Scanner Maintenance - Maintenance program Left click on the WIDsystem scanner Icon and select Launch Scanner Maintenance from the menu. Follow the instructions on your screen.</p> | <p>7.3</p> |

3.2 Install Drivers and Maintenance Software



Before connecting the scanner, you must install its basic drivers and maintenance utilities on your PC. The basic drivers and maintenance utilities are installed from the *WIDEsystem TOOLS* CD-ROM that came with your scanner.



! Important: Be sure to install WIDEsystem before you connect the scanner or install any scanner software applications. Your scanner drivers are automatically installed with WIDEsystem and your PC will then be fully prepared to detect and setup the newly connected scanner device.

If you connected and tried to install the scanner before installing WIDEsystem, the scanner will be entered on the system as a new device without functional drivers. The scanner will be displayed in the Windows Device Manager with a yellow error icon. The scanner entry must be removed from the Device manager before re-installing.

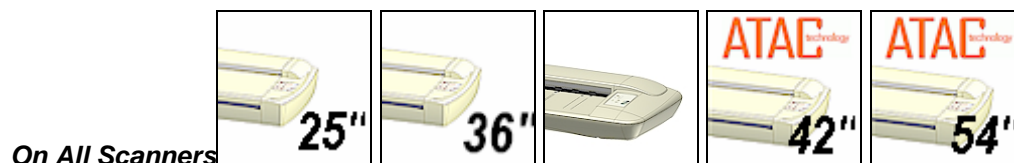
! Important: Be sure to use the WIDEsystem TOOLS CD-ROM that came with your scanner or a newer version. Out-of-date versions of WIDEsystem software may not detect your scanner model.

To install the basic drivers and maintenance software:


1. **Start up the WIDEsystem TOOLS CD-ROM** - Insert the CD-ROM into your PC. Normally the setup menu interface will start automatically. If it does not, perform the following steps to activate it.
 - a. Click the *Start* button on the taskbar and choose *Run* from the menu.
 - b. Type `D:\setup` in the Command Line Box (where D: represents the name of your CD-ROM drive).
 - c. Select the OK button.
2. **View Installation Instructions** - Click on the CD's *Installation Guide* option to view additional installation instructions.
3. **Install WIDEsystem and drivers** - click on the option from main menu or run the `setup.exe` program directly from the WIDEsystem (ws) folder on the CD-ROM. Follow the instructions that appear on your screen.
4. **Install the Scanner Maintenance program** - click on the option from main menu or run the `setup.exe` program directly from the Scanner Maintenance (sm) folder on the CD-ROM. Follow the instructions that appear on your screen.

NOTE: On Windows Compatibility - Your scanner and drivers are tested and developed to support the most current active Microsoft Windows version OS systems. Drivers and interface support in regard to specific Windows versions will follow the Microsoft Support Lifecycle Policy. The compatibility specifications can therefore change accordingly. The most current OS compatibility specifications and drivers will be available on your manufacturer's website.


3.3 Set Up the Scan Station




Your wide format scanner should be placed either on the specially designed stand-alone floor stand or on a sturdy table. Make sure there is enough space behind the scanner to allow the media to run out. Thick stiff media requires space that is at least as large as the media length.


 Slots or openings in the cabinet at the back or bottom are provided for ventilation. This ensures reliable operation of the product and protects it from overheating. These openings must never be blocked or covered by placing the unit on a bed, sofa, rug, or other similar soft surface.


 Your scanner should never be placed near or over a radiator or heat register.

 You should not place the scanner in a built-in installation unless proper ventilation is provided.

 The scanner is equipped with a three-wire (pin) grounding type plug. This plug will fit only into a grounding-type power outlet. This is a safety feature. If you cannot insert the plug into your outlet, contact your electrician to replace the outlet and ensure a grounded power connection. Do not try to defeat or ignore the purpose of the grounding-type plug.



 Make sure the PC connected to the scanner is likewise power-connected to a grounding-type power outlet with a three-wire (pin) grounding type plug.

 See also the Safety Instructions at the end of this operator's guide.

3.4 Control the Smart Card

Check that the Smart Card is correctly installed (contact side downwards) and corresponds to your scanner model. The scanner will function correctly only with a Smart Card inserted.

! Be sure that the scanner is turned off when removing/inserting a Smart Card or accessing the Smart Card area.

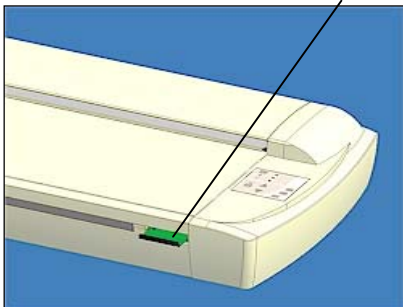
Locating the Smart Card



On Scanners:

You will find the Smart Card in the small drawer labeled "PUSH" behind the scanner front streamer (slide the streamer towards the left to access the drawer). Notice that the SCSI DIL switch controls are in the Smart Card drawer. The DIL switches are used only for certain configurations with SCSI interfacing (described in section *Connection through SCSI interface*).

Smart Card drawer behind the streamer



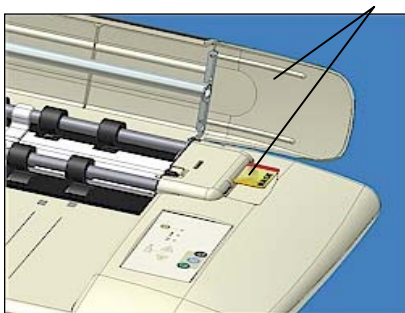
Locating the Smart Card



On Scanners:

On these models you access the Smart Card by lifting the scanning area lid towards the back. The Smart Card is placed in its insertion slot on the top right side of the scanner.

Lift the scanning area lid to access the smart card




Locating the Smart Card

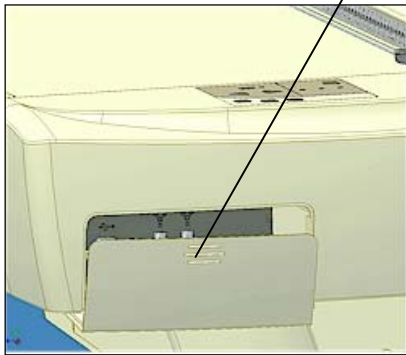


On Scanners:

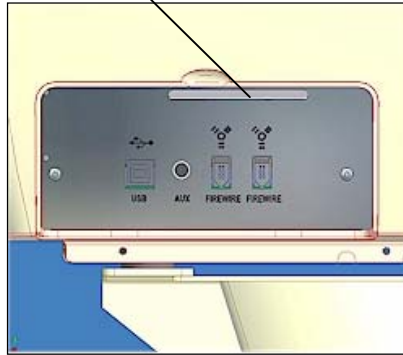
On the 42" models you will find the Smart Card by removing the scanner's right side cover. The Smart Card is placed in its insertion slot above the scanner interface connectors.

 Be sure to reattach the cover after inserting the smart card. The cover must always be closed before you turn the scanner ON.

Remove the scanner's right side cover



Smart Card slot above interface connectors



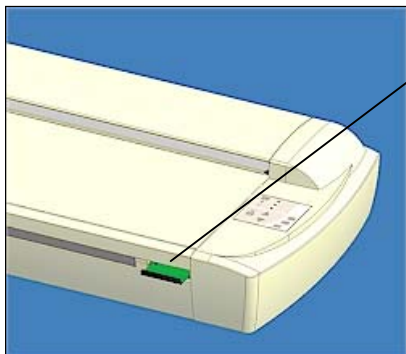
Locating the Smart Card



On Scanners:

On the 54" models you will find the Smart Card in the small drawer labeled "PUSH" behind the scanner front streamer (slide the streamer out to access the drawer). Notice that the SCSI DIL switch controls are in the Smart Card drawer. The DIL switches are used only for certain configurations with SCSI interfacing (described in section on *Connection through SCSI interface*).

54" ATAC models - Smart Card drawer behind the streamer



3.5 Select the Scanner Interface

Different scanner models support specific types of interface connections. Most scanners support two different types of interfaces and you need to select the one that is best for your scanning purposes and compatible with your PC system. The different interface types are described below.

To see which interface options are available on your scanner:

You can identify the specific interface types available on your scanner model by viewing the scanner's Cable-Connector-Panel. (See the next section: *Locate the Cable-Connector Panel*).

3.5.1 Description of Interface Types

FireWire

FireWire can accommodate 400 megabits (around 50 megabytes) per second, which is more than adequate for high volume scanning of large formats. FireWire is a plug-and-play (PnP) specification. FireWire usage requires a FireWire Card and Port installed on the computer. A FireWire card is supplied with the scanner.

See your Windows documentation for information on OS capability with FireWire.

USB 2.0

With USB connectivity you do not need to open the computer and install cards. USB is a plug-n-play (PnP) specification. The USB 2.0 interface supports a data transfer speed of 480 megabits making it one of the industry's most effective interface options. Older computers with USB 1.1 ports will function with a USB 2.0 (scanner) device but at the USB 1.1 (slower) speeds.

See your Windows documentation for information on OS capability with USB.

SCSI

Setting up the SCSI connection requires installation of an SCSI board in your PC, installation of the SCSI driver and in some cases, setting the scanner's SCSI DIL switches. SCSI is recommended only if you cannot use the FireWire or USB 2.0 connection option.

SCSI interface scanners support the Ultra SCSI (8-bit Narrow) SCSI type interface.

SCSI is supported on most Windows host platforms.

NOTE: On Windows Compatibility - Your scanner and drivers are tested and developed to support the most current active Microsoft Windows version OS systems. Drivers and interface support in regard to specific Windows versions will follow the Microsoft Support Lifecycle Policy. The compatibility specifications can therefore change accordingly. The most current OS compatibility specifications and drivers will be available on your manufacturers website.

Regulatory Notice: Your scanner product has been tested to comply with the EMC Standards EN55022 and FCC, Part 15. To maintain compliance, only use the interface cables supplied with the scanner.

3.5.2 Locate the Cable-Connector-Panel

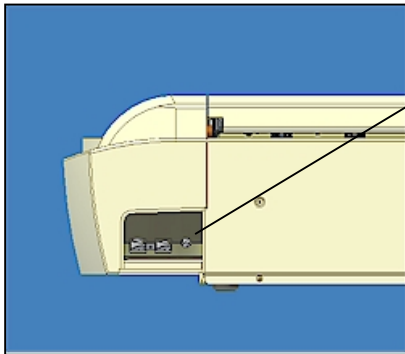
The interface cable connectors are grouped in a Cable-Connector-Panel. Different scanner models support different options for interfacing. You can identify the interface types available to you by viewing the scanner's cable-connector-panel. You can find your scanner's cable-connector-panel as follows:

Locate the cable-connector-panel



FireWire and SCSI interface connectors or FireWire and USB connectors (25" models). The cable-connector-panel is found on the underside of the scanner and accessed from the scanner's back.

Cable-connector-panel is accessed from the scanner's backside.



Locate the cable-connector-panel



FireWire and USB interface connectors. The cable-connector-panel is found on the back.

The cable-connector-panel is found on the scanner's back.



Locate the cable-connector-panel

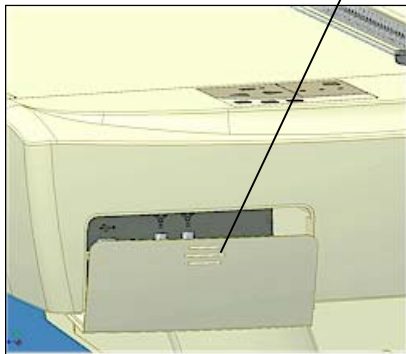


On Scanners:

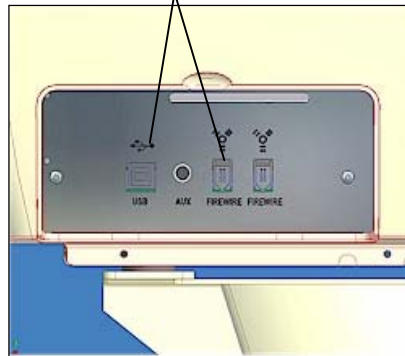
FireWire and USB interface connectors. You will find the cable-connector-panel by removing the scanner's right side cover. You feed the interface cable through the opening in the back of the scanner until it emerges in front of the cable-connector-panel.

! Be sure to reattach the cover after you connect the interface. The cover must always be closed before you turn the scanner ON.

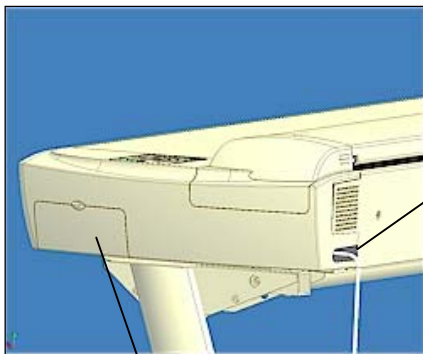
Remove the scanner's right side cover



Interface connectors (cable-connector-panel)



Feed the interface cable through the hole in the back until it emerges in interface area.



Interface area is behind the cover

3.6 Connection Through the FireWire Interface

To connect through FireWire, you will need the FireWire cable that came with your scanner. Your computer must be enabled for FireWire through a FireWire card and port.

Check your computer for FireWire

Many computers come with FireWire inputs. Follow these steps to check if FireWire is enabled on your computer:

1. In Windows, Click Start, Settings, and then Control Panel.
2. Double-click the System icon.
3. Click the Device Manager tab.

If a FireWire host controller (IEEE) is listed, then FireWire is enabled on your computer. If you do not see this device listed, you will need to install a FireWire card.

To install a FireWire card, shutdown your computer and install the card into an empty PCI slot. See your computer's user's manual for installation of new hardware and the driver installation information that came with your FireWire card.

Connect scanner to PC with Firewire cable

1. **Make sure you have installed WIDEsystem** on your PC before you connect the scanner. Your scanner drivers are automatically installed with WIDEsystem and your PC will then be fully prepared to detect and setup the newly connected scanner device.
2. Shut down (power off) your PC. Do not connect the scanner power cable or turn on the scanner.
3. Locate the FireWire cable that came with your scanner.
4. Connect the PC end to the FireWire port on your computer
5. Connect the peripheral end to a FireWire connection socket on your scanner.
6. Connect the power cable to your scanner and turn the scanner on.
7. Turn on the PC. The OS will detect and setup the newly connected scanner device.
8. If an *"Unknown device is found"* message appears after you plug in the cable, follow the steps described below under *Unknown device is found message*.

Note: The extra FireWire connector is for daisy-chaining another device to your system and not for interfacing with another PC.

"Unknown device is found" message

If your system has problems detecting the scanner, make sure your FireWire port is enabled (see above). Make sure you have installed the WIDEsystem software from the CD that came with your scanner or a newer WIDEsystem version. Make sure you have installed WIDEsystem **before** connecting the scanner. You should never attempt to step through device installation dialogs before installing WIDEsystem. If you have done so, see the trouble shooting section for instructions on reinstalling.

If your system still does not detect the device, disconnect the FireWire cable, unplug the power to your scanner and turn off the computer. Wait a few minutes, reconnect the scanner, restart the PC and turn on the scanner.

3.7 Connection through the USB Interface

Verify that your scanner's cable-connector-panel contains a USB port. Your computer must also have an enabled USB port. You will need the USB cable that came with your scanner.

Check your USB Port

Even if the computer has a USB port, it will not function unless it is enabled. Follow the instructions below to determine whether your USB port is enabled.

1. In Windows, Click Start, Settings, and then Control Panel.
2. Double-click the System icon.
3. Click the Device Manager tab.
4. Click the plus (+) icon to the left of the Universal Serial Bus Controller item.

If a USB host controller and a USB root hub are listed, then USB is probably enabled on your computer. If you do not see these devices listed, refer to your computer's documentation or contact the manufacturer for more information on enabling and setting up USB.

Connect scanner to PC with USB cable

1. **Make sure you have installed WIDEsystem** on your PC before you connect the scanner. Your scanner drivers are automatically installed with WIDEsystem and your PC will then be fully prepared to detect and setup the newly connected scanner device.
2. Shut down (power off) your PC. Do not connect the scanner power cable or turn on the scanner.
3. Locate the USB cable that came with your scanner.
4. Connect the PC end to a USB port on your computer
5. Connect the peripheral end to the USB connection socket on your scanner.
6. Connect the power cable to your scanner and turn the scanner on.
7. Turn on the PC. The OS will detect and setup the newly connected scanner device.
8. If an *"Unknown device is found"* message appears after you plug in the USB cable, follow the steps described below under *Unknown device is found message*.

"Unknown device is found" message

If your system has problems detecting the scanner, make sure your USB port is enabled (see above). Make sure you have installed the WIDEsystem software from the CD that came with your scanner or a newer WIDEsystem version. Make sure you have installed WIDEsystem **before** connecting the scanner. You should never attempt to step through device installation dialogs before installing WIDEsystem. If you have done so, see the trouble shooting section for instructions on reinstalling.

If your system still does not detect the device, disconnect the USB cable, unplug the power to your scanner and turn off the computer. Wait a few minutes, reconnect the scanner, restart the PC and turn on the scanner.

3.8 Connection through the SCSI Interface

Verify that your scanner's Cable-Connector-Panel contains a SCSI port. SCSI interfacing supports the Ultra SCSI (8-bit Narrow) SCSI type interface. If your PC does not support a SCSI interface, you will have to configure one. For this you will need:

- A SCSI host adapter board (also called a SCSI controller)
- SCSI driver software
- A SCSI cable

How to configure the SCSI interface

Configuring the SCSI Interface requires the following steps. Each step is described in detail in the following sections:

1. Install the SCSI host adapter board into an empty slot in PC.
2. Install the SCSI adapter board driver software.
3. Connect the scanner to PC.
4. Set scanner DIL switches and DIL switch 4 termination if the default settings require changing.

Step 1: Install the SCSI host adapter board

1. Set the PC power-switch to OFF.
2. Set any external device power switches to OFF (such as printers, displays etc.).
3. Unplug the PC-system unit and all other devices from the wall outlet.
4. Remove the cover of your computer to expose the expansion slots.
5. Align and insert the SCSI host adapter board into an empty slot.
6. Use the expansion slot panel screw to secure the host adapter to the computer frame.

Step 2: Install the SCSI driver software

The correct steps for SCSI driver installation depend on your Windows operating system. Follow the instructions for your operating system described in the SCSI driver documentation.

Step 3: Connect scanner to PC with SCSI cable

1. **Make sure you have installed WIDEsystem** on your PC before you connect the scanner. Your scanner drivers are automatically installed with WIDEsystem and your PC will then be fully prepared to detect and setup the newly connected scanner device.
2. Shut down (power off) your PC. Do not connect the power cable or turn on the scanner.
3. Locate the SCSI cable that came with your scanner.
4. Connect the PC end to the SCSI port on your computer
5. Connect the peripheral end to a SCSI connection socket on your scanner.
6. If you do not need to configure the DIL switches (see next section) then you can connect the scanner power cable and turn the scanner power on. Otherwise, set your DIL switches before turning the scanner on and then proceed to the next step.
7. Turn on the PC. The OS will detect and setup the newly connected scanner device.
8. If an *"Unknown device is found"* message appears after you plug in the cable, follow the steps described below under *Unknown device is found message*.

Note: The extra SCSI connector is for daisy-chaining another device to your system and not for interfacing with another PC.

“Unknown device is found” message

If your system has problems detecting the scanner, make sure your SCSI interface and driver is connected correctly. Make sure you have installed the WIDEsystem software from the CD that came with your scanner or a newer WIDEsystem version. Make sure you have installed WIDEsystem **before** connecting the scanner. You should never attempt to step through device installation dialogs before installing WIDEsystem. If you have done so, see the trouble shooting section for instructions on reinstalling.

If your system still does not detect the device, disconnect the SCSI cable, unplug the power to your scanner and turn off the computer. Wait a few minutes, reconnect the scanner, restart the PC and turn on the scanner.

Step 4: Setting the scanner DIL-switches

The DIL-switches are used for setting up of the scanner's SCSI connection ports, and for selection of the scanner test mode and the scanner forced boot start up mode.

NOTE:

The DIL-switches are set from the factory to default settings that apply to most common configurations so **usually you will not have to change the DIL-switch settings**. Best scanning performance is obtained with only one device on the SCSI bus. However, **if your configuration requires more than one device on the bus, you may need to change the DIL-switch settings**.

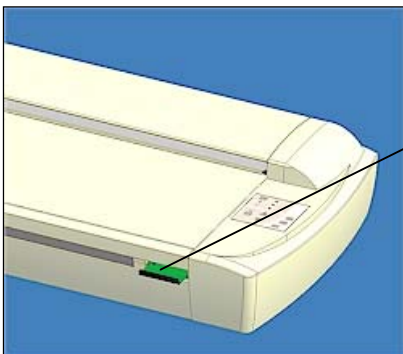
The factory default DIL-switch settings and the DIL-switch Value table are shown on the following page. Use the table and the following instructions for each switch to determine if your DIL-switch settings need to be changed.

! **Before accessing and setting DIL switches, you must turn the scanner power off.** Removing and inserting the Smart Card (see below) while power is on can damage the scanner.

On scanners with the SCSI interfacing option, you will find the DIL-switches in the small Smart Card drawer labeled “PUSH” behind the scanner front streamer. To access the switches remove the streamer, push the drawer inwards and release so it pops open and remove the Smart Card.

! **Important:** Remember to reinsert the Smart Card when finished setting the DIL-switches and before turning power on.

Smart Card drawer behind the streamer. Remove the card to access the DIL-switches.



SCSI DIL-Switches – Factory Default Settings

| | | OFF | ON |
|---------------------------|---|-------------------------------------|-------------------------------------|
| SCSI Device Address | 1 | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| SCSI Device Address | 2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| SCSI Device Address | 3 | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| SCSI Built-in Termination | 4 | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| No Synchronous Transfer | 5 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Not in use | 6 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Force Boot Start up | 7 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Continuous Test Mode | 8 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Device number setup – combinations of switches 1,2,3

Make sure the power to the computer and the scanner are OFF when setting the SCSI device number, as the switch settings are only read from the scanner DIL-switch during the scanner's power up.

You can set up the SCSI device number for the scanner to any unused SCSI device number. The combination of the three *SCSI Device Address* switches determines the scanners device number. To set the SCSI device number to the one required, you set the switches 1, 2 and 3 to the combination of ON/OFF values specified in the table below. The scanner is set as SCSI Device number 2 from the factory.

| SCSI device no / Switch combination: | 1 | 2 | 3 |
|--------------------------------------|-----|-----|-----|
| SCSI device no. 0 | ON | ON | ON |
| SCSI device no. 1 | OFF | ON | ON |
| *SCSI device no. 2 | ON | OFF | ON |
| SCSI device no. 3 | OFF | OFF | ON |
| SCSI device no. 4 | ON | ON | OFF |
| SCSI device no. 5 | OFF | ON | OFF |
| SCSI device no. 6 | ON | OFF | OFF |
| SCSI device no. 7 | OFF | OFF | OFF |


* Factory Default

SCSI built-in active termination – switch 4

Scanners with SCSI interface connectors have a built-in active SCSI termination that works better than a passive terminator at high transfer rates.

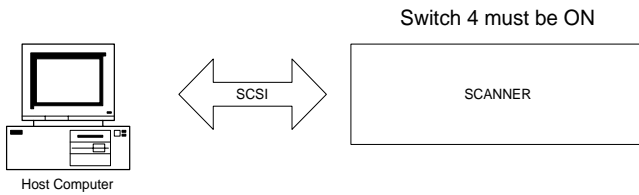
The built-in active termination for the SCSI bus is enabled when switch 4 is ON (default) and disabled by setting it to OFF.

If the scanner is the only or last device on the SCSI bus, make sure switch 4 is ON. If the scanner is not the last device make sure switch 4 is OFF. (see the following illustrations).

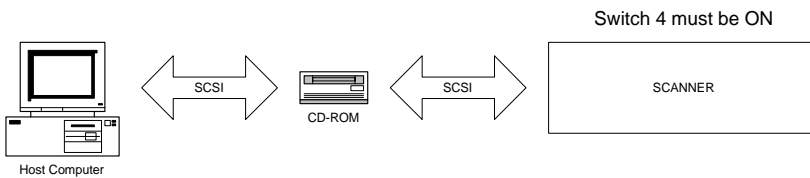
 **Important:** Never set switch 4 to ON and use a terminator block at the same time.

The following 3 scenarios show how to terminate the SCSI bus correctly:

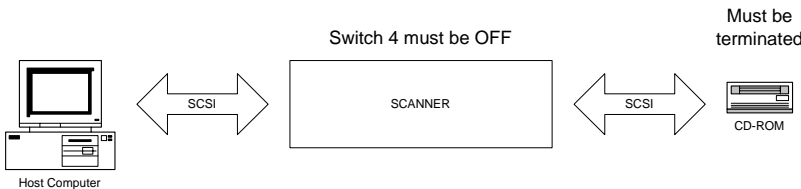
A. The Scanner is the only external device on the SCSI bus



B. The Scanner is the last device on the SCSI bus



C. The Scanner is *not* the last device on the SCSI bus



Note: If the scanner is connected to a SCSI controller in the PC that is used with an internal SCSI device (f.ex. hard disk), make sure that the on-board SCSI termination for that device is disabled before attaching the scanner. Refer to the internal device's documentation.

Troubleshooting and Test Controls – switches 5, 6, 7 and 8

Switch 5. No synchronous transfer (default OFF): When ON switch 5 disables SCSI synchronous transfer mode (reverts to asynchronous transfer). Switch 5 should only be ON for testing as it slows the scanner down.

Switch 6. Not in use – no effect.

NOTE: The following switch 7 and 8 functions, Force Boot and Continuous Test modes can also be set from the Operator's Panel with switch 7 and 8 on OFF (default setting). This is also the recommend method. See the section *Operator's Panel and Indicators* for instructions.

Switch 7. Force boot start up (default OFF): If an error occurred during a scanner firmware update, you can use this switch to force the scanner into firmware boot mode, enabling you to repeat the firmware update.

Switch 8. Continuous test mode (default OFF): This switch is only turned ON for special technical maintenance and renders the scanner inaccessible.

! Important : For normal scanning, make sure that all of the troubleshooting and test control switches 5, 6, 7, 8 are OFF.

3.9 Installation Verification



1. Locate the scanner icon on the Windows System Tray. This is the WIDEsystem program icon.
2. Double click on the WIDEsystem program icon.
3. The program should detect a *Selected Scanner* in the dialog.
4. If the scanner was not installed correctly, a message will inform you that your scanner could not be detected. If this is the case turn off power to all connected devices and repeat the installation steps.

3.10 Preliminary Maintenance



Once you have setup your scanner and verified your installation, it is important that you run your first maintenance session before working with the scanner. Shipping and transportation of your scanner from the factory may have affected the camera positions and therefore it is recommended to run camera alignment and calibration using the Scanner Maintenance program wizard. But before you do so, you must thoroughly clean the scanner’s flat topside (where paper rests during scanning) and the internal scan area (glass plate and rollers).

Follow the instructions described in the section *Regular Maintenance* in this Operators Guide.

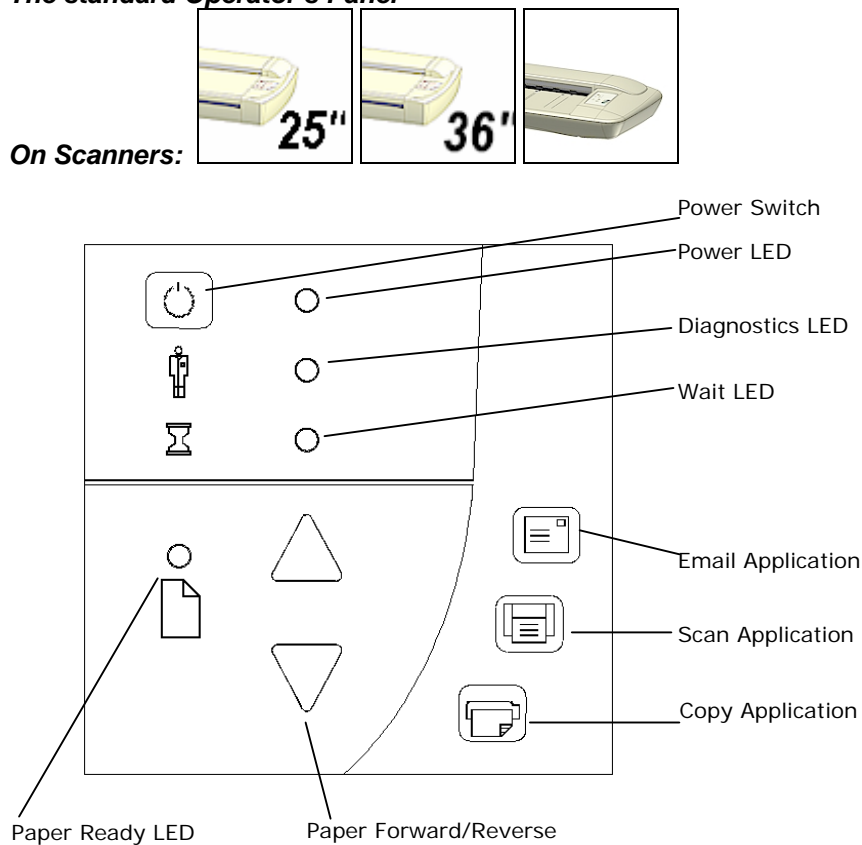


4. Scanner Operation - Panel and Indicators

This section describes the scanner operator's panel. The operator's panel contains LED indicators and operation keys. The indicator's function is to display scanner status in relation to its basic operations such as self-testing and media readiness. Interpretation of the LED indicator messages and operation of the keys are described in this section. You can always return to this section to reference specific tasks and LED patterns.

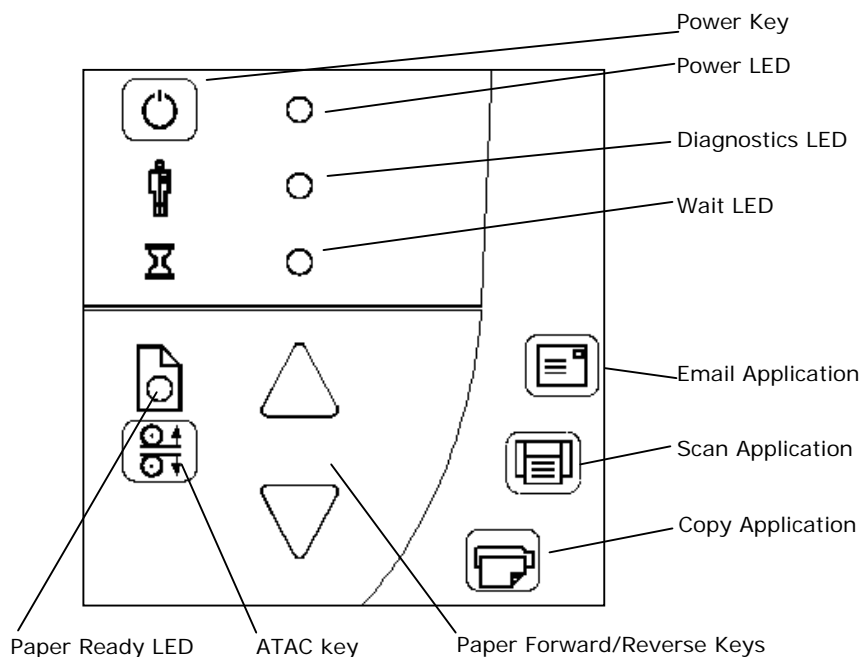
4.1 The Operator's Panel

The standard Operator's Panel



The following sections describe usage of the panel keys and the how to understand the panel LED lighting patterns.

The ATAC Operator's Panel



The following sections describe usage of the panel keys and the how to understand the panel LED lighting patterns.

4.2 Scanner Control – Hard and Soft Power ON/OFF and Panel LEDs



Hard Power and Soft Power - Two Ways for Turning Power On and Off

- **Hard Power ON/OFF**

You can power on and off by flipping the outlet switch at the back of the scanner. This is what you will have to do the first time you turn on power, if you move the scanner to a new power wall-outlet or if you want to force the scanner into Firmware Boot mode.



- **Soft Power OFF/ON**

Turn OFF and ON by pressing the power key on the operator's panel. The scanner must be Hard Powered ON – i.e the switch at the scanner's back must always be ON in order to use Soft Power OFF/ON. Soft Power OFF/ON is how you would normally power off and on, and the switch at the back will always be flipped to ON.

Advantages with Soft Power OFF/ON:



- You turn the scanner OFF and ON by pressing the power key on the panel. The scanner is ready to scan sooner than with *Hard Power ON*.
- Scanner power ON and power OFF can be controlled through the WIDEsystem software timer feature or an idle time setting. Power down reaches the strict ENERGY STAR® low power values on ENERGY STAR® compliant models).
- The green power LED will blink just before the scanner powers off because its defined power off time (in WIDEsystem) has been reached. If you are using the scanner and want to cancel power down, press the power key until the green LED stops blinking. You can always disable or change timer settings in WIDEsystem.
- When OFF (LED is red) The scanner can be powered up by pressing the power key or just by inserting paper into the scanner indicating you wish to use it.

The scanner's Self Test Procedure

When you connect the scanner to the power outlet and turn on the outlet switch at the back of the scanner, it starts up with a self-test procedure. The scanner's self-test procedure consists of two main steps –

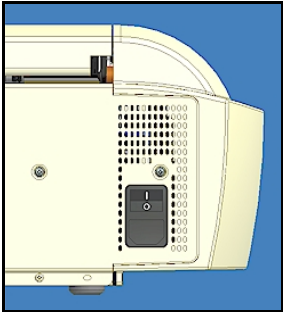
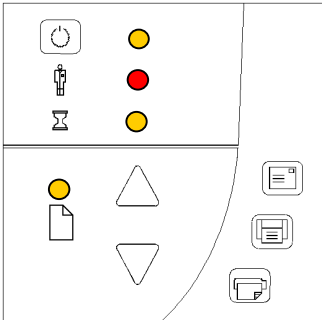
- **Init (Initialization) Sequence** – the scanner loads and tests internal parameters. Only initiated when you power up by flipping the outlet switch at the back of the scanner (*Hard Power On*).

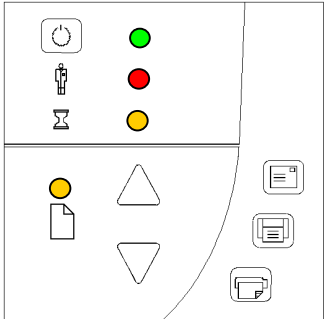
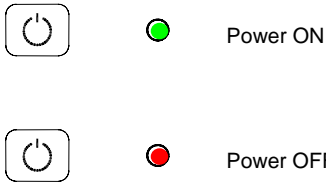
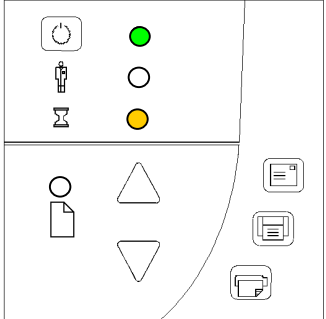
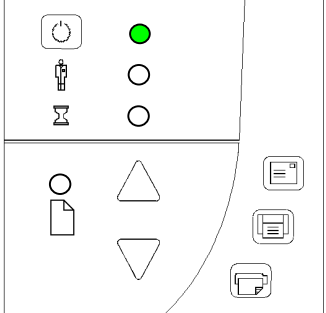
- **Self-Adjustment** - includes a short warmup period, adjustment of light profiles, stitching and black/white points. Invoked every time you turn on power with either outlet switch (*Hard Power On*) or through power OFF/ON key (*Soft Power On*).

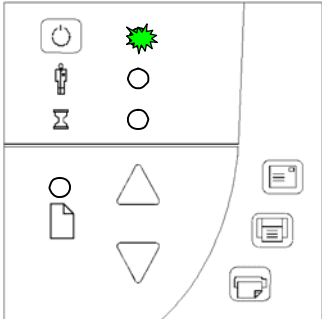
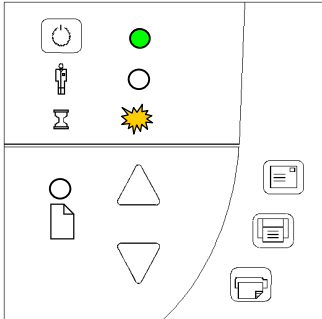
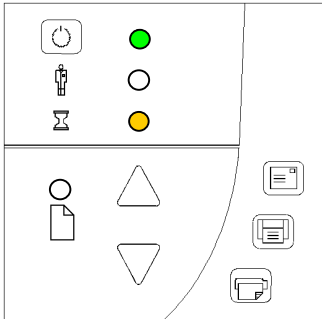
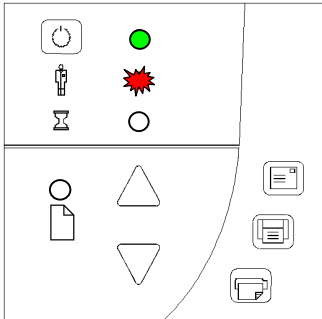
The scanner will be ready to scan on completion of its self-test procedure. Normally, after powering up for the first time, you will leave the outlet switch permanently ON, and turn scanner power ON and OFF with the Power key on the operator's panel. To ensure optimal functionality, the scanner will always run Self-Adjustment when you turn power from OFF to ON.

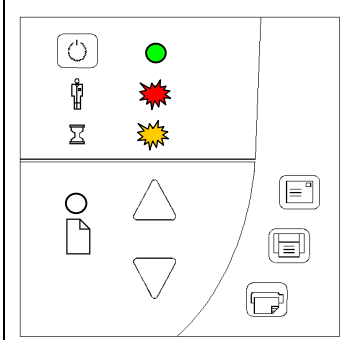
The illustrations below marked "**startup – phase 1 (2,3,4)**" show how the Operator's panel will look (LED lighting patterns) starting from when you turn power ON, through the self-test procedures and until the scanner is ready to scan.

NOTE: For simplicity, the illustrations below display a Standard Panel i.e., without an ATAC key. The LED behavior of the Power LED, Diagnostics LED and Wait LED, are identical for Standard and ATAC operator's panels.

| How it looks on scanner... | What it means.... |
|---|--|
|  | <p>Turn the scanner power ON – First Time – <i>Hard Power ON</i></p> <p>At back of the scanner, plug in the power cable and flip the Outlet Switch to ON. The scanner starts the self-test procedure which starts with the Init Sequence (see next).</p> |
|  | <p>Init Sequence (startup phase 1)</p> <p>When you invoke <i>Hard Power On</i> by turning scanner power ON from the outlet at the back, the scanner runs its initialization sequence. ALL the LEDs are lighted as shown in the illustration on the left.</p> <p>Panel input is disabled and you cannot begin scanning.</p> <p>NOTE: When you power up through <i>Soft Power On</i>, by pressing the power key (from red to green) as described in "Soft power ON/OFF", this initialization sequence is skipped and the scanner goes directly to Self-Adjustment (startup-phase 3) as described below.</p> |

| | |
|---|--|
|  | <p>Power LED Green (startup – phase 2)</p> <p>Towards the end of Init Sequence, the Power LED will change to green while the other LEDs remain unchanged (lighted).</p> <p><i>From here the scanner moves on to Self Adjustment (startup phase 3).</i></p> |
|  | <p>Soft Power ON and OFF- Turn power ON/OFF with power key – normal use (with outlet switch always ON)</p> <p>With the outlet switch always ON, use the Operator's panel Power key to control scanner power. Hold down on the Power key to toggle power OFF/ON. This is termed Soft Power OFF/ON mode.</p> <p>The Power LED lights green when the scanner is ON and red when power is OFF. When you turn the scanner ON in this manner, it starts in Self-Adjustment mode (startup phase 3) as described below.</p> <p>When in the power OFF/ON mode, the scanner can automatically be powered up and down by WIDEsystem's timer or an idle time setting. See WIDEsystem Help for instructions.</p> |
|  | <p>Self-Adjustment (startup –phase 3)</p> <p>If you used Hard Power On - On completion of the Init Sequence, the power LED (green) and the Wait LED (yellow) remain lighted while the others LEDs turn off. This indicates that the scanner is running its Self-Adjustment of light profiles, stitching and black/white points.</p> <p>If you used Soft Power On - the power LED turns to green and the Wait LED turns on yellow while others LEDs are off. This indicates that the scanner is running its Self-Adjustment with warm-up and adjustment of light profiles, stitching and black/white points.</p> <p>To maintain optimal conditions, the scanner runs new Self-adjustment procedures periodically during the day (without lighting the wait LED). If the Wait indicator flashes, the scanner needs to run Self-Adjustment but cannot (see below).</p> |
|  | <p>Scanner Ready (startup – phase 4)</p> <p>When the Wait LED turns off, and only the Power LED is on and lights green, self-adjustment is completed and the scanner is ready to scan.</p> |

| | |
|---|--|
|  | <p>Green Power LED flashing</p> <p>The green power LED will flash just before the scanner automatically powers off because its defined automatic power OFF time (in WIDEsystem) has been reached in the timer.</p> <p>If you are still using the scanner and want to cancel the timer controlled power OFF, press the power key until the LED stops blinking.</p> <p>You can at any time disable or change timer settings in WIDEsystem (see WIDEsystem on-line help for details).</p> |
|  | <p>Wait LED Flashes - Self-Adjustment required but not possible</p> <p>If the Wait LED flashes (and the Diagnostics LED is off) the scanner needs to run Self-Adjustment but cannot. Self-Adjustment is necessary for maintaining optimal and stable internal conditions.</p> <p>To solve this, any original in the scanner should be removed, and the pressure-platen should be set to the <i>Normal</i> position (i.e., not a thick media setting). A scan may be issued, but the quality will be compromised. When Self-Adjustment is again possible, the Wait LED stops flashing, but continues to be on until Self-Adjustment is completed. The scanner should be left alone while Self-adjustment is running.</p> |
|  | <p>During Calibration – Wait LED lights</p> <p>This is normal. The Wait LED is on during Calibration to indicate that the original should not be removed or moved during the Calibration procedure.</p> <p>All panel input is prevented during basic calibration.</p> |
|  | <p>Diagnostics LED Flashes – Error detected during Self-Test</p> <p>The Diagnostics LED shows the scanner’s Self-Test result status. An unlit Diagnostics LED means that the scanner’s Self-Test procedures encountered no errors.</p> <p>If the Diagnostics LED flashes, an error was discovered during Self-Test. Open WIDEsystem (scanner icon on your system tray) and select the Status tab to view additional information about the error.</p> |

| | |
|---|---|
|  | <p>Both Diagnostic LED and Wait LED Flash – Maintenance needed</p> <p>Simultaneous flashing by both the Diagnostic LED and the Wait LED may mean that the scanning area needs cleaning and the cameras calibrated. See the section on "Maintenance" for instructions.</p> <p>If the Diagnostic and the Wait LEDs continue to flash after scanner maintenance, there may be camera position errors that require professional technical service.</p> |
|---|---|

4.3 Application Control – One Touch Scan



The Application Control keys require correct installation of *WIDEsystem* software, scan applications and setup definitions before they can become active. Your PC must be turned on and running.

Descriptions of the key’s intentional functionality follow below. You can however, assign applications with other functions to any of the Application Control keys. For instructions on configuring the keys to other applications, view *WIDEsystem TOOLS* Help

| How it looks on scanner... | What it means.... |
|----------------------------|---|
| | <p>Email Application</p> <p>This key is for activating an application that scans and prepares images for sending via E-mail from the scanner.</p> |
| | <p>Scan Application</p> <p>This key is for activating the scanning application installed on your PC so as to trigger a scan of the document currently loaded in the scanner.</p> |
| | <p>Copy Application</p> <p>This key is for activating a scan-to-copy application installed on your PC.</p> |

NOTE: The applications you wish to use with the buttons must be designed to recognize your scanner device and the signals sent from its buttons so that when a button is pressed, a scan is initiated and the result is loaded into the application triggered. Any application you assign to a button must be specially programmed in order to work in this manner. Check your application’s documentation to verify its functionality with your scanner’s one-touch-scan buttons.

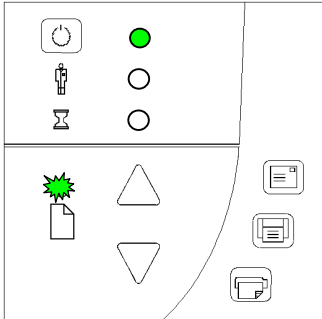
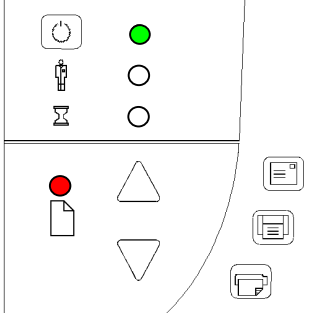
4.4 Media Control from the Panel

For both thin and thick media, the Paper Ready LED lights up when the media is inserted into the original's insertion slot and correctly positioned for feeding on a straight path. The media can then be moved into the start-scan position by pressing the Paper Forward Key or through automatic loading. The Paper Ready LED will blink during scanning.

Media Control



| How it looks on scanner... | What it means.... |
|----------------------------|--|
| | <p>Paper Forward and Paper Reverse Keys</p> <p>The Paper Forward Key moves the drawing into the start-scan position for manual loading (see section on <i>Loading</i>).</p> <p>If <i>Auto-Load</i> is applied, loading will occur automatically (without pressing the key) when the original enters the insertion slot.</p> <p>Pressing the <i>Paper Forward Key</i> during scanning will stop the scanning process and feed the original through the scanner while the key is held down.</p> <p>The Paper Reverse Key stops the current scanning process and reverses the original. The original will be fed backwards through the scanner while the key is held down.</p> |
| | <p>Paper Ready LED Green - Ready for Normal media</p> <p>The Paper Ready LED lights green when normal thin media is positioned correctly in the insertion slot and stays green when the media is moved to the start-scan position.</p> <p>From there, scanning can be controlled from the computer.</p> |
| | <p>Paper Ready LED Yellow - Ready for Thick media</p> <p>The Paper Ready LED lights yellow when thick media is positioned correctly in the adjusted insertion slot and stays yellow when the media is moved to the start-scan position.</p> <p>From there, scanning can be controlled from the computer.</p> |

| | |
|---|--|
|  <p>The diagram shows a control panel with several indicators and buttons. In the top left, there are icons for a power button, a USB icon, and a timer. To the right of these are two small circles. Below this section, there is a document icon with a green starburst, two triangles (one pointing up, one pointing down), and three document icons on the right side.</p> | <p>Paper Ready LED Blinks – (green or yellow) – Media is being scanned</p> <p>The Paper Ready LED blinks during scanning. On completion of the scan, the Paper Ready LED will stop blinking. Scanning can then be repeated from the computer or terminated by ejecting the media from the scanner. The above behavior applies for both thin media scanning (green blinking) and thick media scanning (yellow blinking).</p> |
|  <p>The diagram shows the same control panel as above, but with a red circle next to the document icon with the starburst, indicating a thick media error.</p> | <p>Paper Ready LED Red – No Thick media detected</p> <p>The paper ready indicator will light red if the pressure-platen is in a thick media setting (a raised pressure-platen) but the scanner does not detect the media.</p> |

Media Control



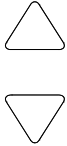
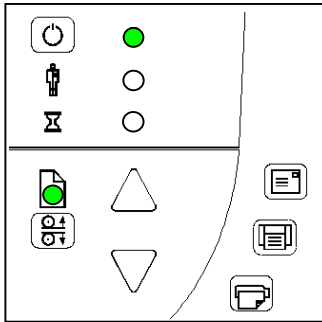
On Scanners:

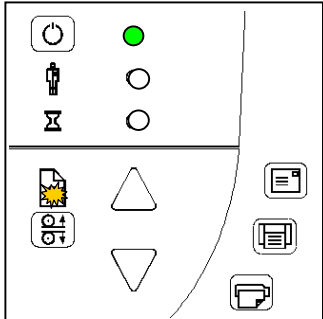



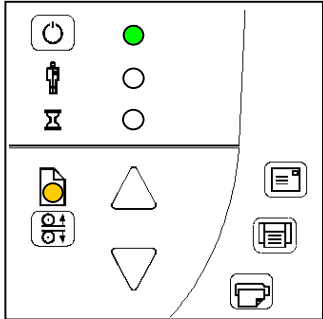
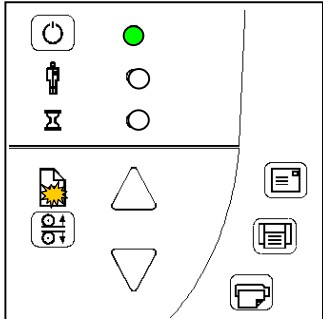
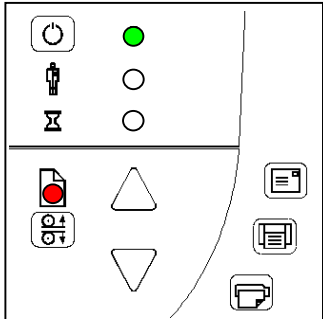


Scanners with the Automatic Thickness Adjustment Control (ATAC) key

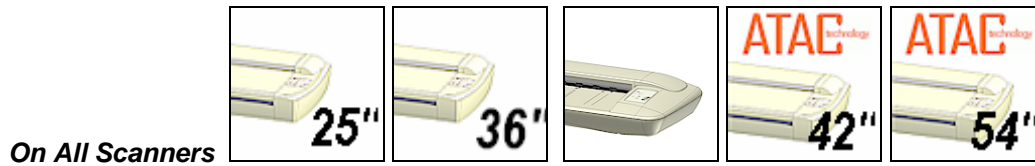
These scanner models support Automatic Thickness Adjustment Control for easy adjustment of the pressure-platen level for scanning thick media. Thick media scanning will be described in detail later in this manual.

For both thin and thick media, the Paper Ready LED lights up when the media is inserted into the original's insertion slot and correctly positioned. The media can then be moved into the start-scan position by pressing the Paper Forward Key or through automatic loading. The Paper Ready LED will blink during scanning.

| How it looks on scanner... | What it means.... |
|---|---|
|  | <p>Paper Forward and Paper Reverse Keys</p> <p>The Paper Forward Key moves the drawing into the start-scan position for manual loading (see section on <i>Loading</i>).</p> <p>If <i>Auto-Load</i> is applied, loading will occur automatically (without pressing the key) when the original enters the insertion slot.</p> <p>Pressing the <i>Paper Forward Key</i> during scanning will stop the scanning process and feed the original through the scanner while the key is held down.</p> <p>The Paper Reverse Key stops the current scanning process and reverses the original. The original will be fed backwards through the scanner while the key is held down.</p> <p>When the scanner is in Automatic Thickness Adjustment Control (ATAC) mode the paper forward and paper reverse keys become "pressure-platen up" and "pressure-platen Down" keys (see below).</p> |
|  | <p>Paper Ready LED Green - Ready for Normal media</p> <p>The Paper Ready LED lights green when normal thin media is positioned correctly in the insertion slot and stays green when the media is moved to the start-scan position.</p> <p>From there, scanning can be controlled from the computer.</p> |

| | |
|---|---|
|  | <p>Paper Ready LED Flashes Yellow – Scanner in ATAC mode</p>  <p>ATAC key</p> <p>When you press the ATAC key, you set the scanner in ATAC mode. The Paper Ready Key flashes yellow to indicate ATAC mode.</p> <p>The Paper Forward and Paper Reverse keys become “Pressure-platen Up” and “Pressure-platen Down” keys.</p>   <p><i>Paper Forward and Paper reverse Keys become Up/Down keys</i></p> |
|  | <p>Paper Ready LED Yellow - Ready for Thick media</p> <p>The Paper Ready LED lights yellow when the scanner is ready to scan thick media. The pressure-platen has been lowered and the media is positioned correctly in the scanner.</p> <p>The scanner goes automatically out of ATAC mode. The Paper Forward and Paper Reverse keys resume their normal functionality so you can move the thick original forwards and backwards in the scanner.</p> <p>Scanning can be controlled from the computer.</p> |
|  | <p>Paper Ready LED Flashes – (green or yellow) – Media is being scanned</p> <p>The Paper Ready LED blinks during scanning.</p> <p>On completion of the scan, the Paper Ready LED will stop blinking. Scanning can then be repeated from the computer or terminated by ejecting the media from the scanner.</p> <p>The above behavior applies for both thin media scanning (green blinking) and thick media scanning (yellow blinking).</p> |
|  | <p>Paper Ready LED Red – No Thick media detected</p> <p>The paper ready indicator will light red if the pressure-platen is in a thick media setting (a raised pressure-platen) but no media is detected in the scanner.</p> |

4.5 Setting the Scanner in Firmware BOOT Mode



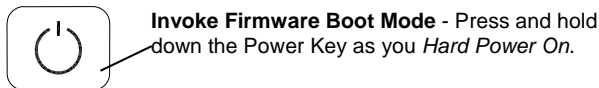
You can force the scanner to firmware boot mode. This is useful if an error or power-failure occurred during a firmware update and you need to restart the firmware update process. A scanner will not run correctly after an interrupted firmware update process.

To force the scanner to firmware boot mode:

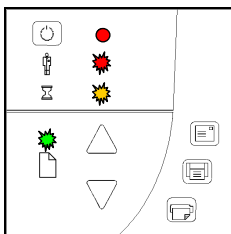
1. If restarting after a power-failure interrupted your firmware update, the scanner should start up in boot mode. If not, you can use the following panel function to force the scanner into boot mode.
2. Turn the scanner power off with the outlet switch at the back – **Hard Power Off**.



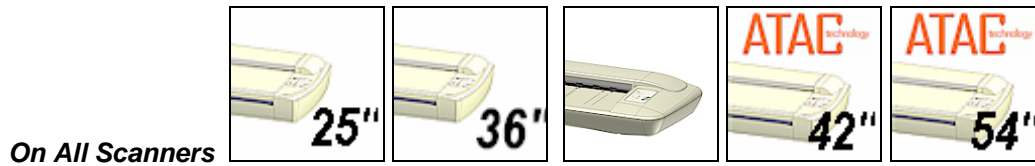
3. Press and hold down the Power key on the operator’s panel.
4. As you hold down the power key, reach to its back and **Hard Power On** the scanner by flipping on the outlet switch at the back of the scanner.



5. When the Power LED turns red and the other LEDs flash as shown below, the scanner is in Firmware Boot mode and you can reapply the Firmware.



4.6 Automatic Power functions



You can set the scanner for automatic power OFF (power down) and power ON. Automatic power functionality is set and controlled through the WIDEsystem software. There are two automatic power functions - the **Timer** function and the **Automatic power down (after Idle time)** setting. Automatic power functionality lets you schedule your scanner's up-time optimally and helps save energy. The power down mode, on ENERGY STAR[®] compliant scanners, meets the low values of ENERGY STAR[®] criteria.

In order to use automatic power functionality: the scanner must be Hard Powered ON – i.e the switch at the scanner's back must always be ON.



With the scanner Hard Powered On, the scanner can be brought into Soft Power ON and Soft Power Off **manually** - by pressing the panel's power button or by using the **automatic power functions – Timer and Idle time**. The power LED on the operator's panel will light red when the scanner is powered OFF and green when powered ON.



4.7 Energy Star[®]



ENERGY STAR[®] is a program helping businesses and individuals protect the environment through superior energy efficiency. ENERGY STAR[®] qualified scanners automatically enter a low-power "sleep" mode after a period of inactivity. Spending a large portion of time in low-power mode not only saves energy but helps scanner equipment run cooler and last longer. These scanners support an *Automatic Power Down after Idle time* functionality in addition to the *Timer* function described in the next section.

Both automatic power down functions (Timer and Idle Time), on ENERGY STAR[®] compliant scanners, reach the low power values that meet ENERGY STAR[®] criteria.

4.8 Timer Function - Automatic Power ON/OFF



To best explain usage of the **Timer** automatic power function, please look at the following example:

Your business opens a bit later on Mondays than on other days, so you want the scanner to power on at 07:30 so that by the time you reach work at 08:00, the scanner will be warmed up and ready to run at an optimal internal temperature. On Tuesday you need to process a heavy copy order and anticipate a long day. You therefore set the scanner to shut down much later than usual. On Wednesdays, you are always attending meetings and won't need the scanner until after lunch. Thursday and Friday are normal workdays and the shop is closed during the weekend.

You can program this whole weekly schedule into the scanner and rid yourself of worries about getting early to work in order to warm up your equipment. Nor do you have to worry about remembering to shut off the device before going home to save energy. Once you fill out the timer values in WIDEsystem's Timer tab, the scanner takes care of these things itself.

To use the Timer function:

1. Double-click on the scanner icon in the system tray to display the WIDEsystem interface.
2. Select the *Timer* Tab.
3. Click the checkmark fields for each day you want automatic power-on and power-off.
4. Click the 2-digit hour field in the On column to highlight it. Use the arrow box to increase or decrease the hour value.
5. Click the 2-digit minute field in the Wake-up column to highlight it. Use the arrow box to increase or decrease the minute value.
6. Repeat this process in the Power down column for the same week-day.
7. Continue making settings for the other week-days in the same manner or....
8. You can use the Link Monday to Friday option to make your settings for Monday apply for the whole work-day-week.
9. **Note** that the Idle time setting (Automatic power down) will still apply and may conflict with your *Timer* settings. Change the *Automatic Power down – Idle time* setting if it does.
10. When you have filled out the dialog, press *Apply* to download your settings into the scanner's memory.

After making your Timer settings:

1. Your scanner will remember your settings even after you turn off your PC and thereby shutdown the WIDEsystem application. The settings displayed in the WIDEsystem Timer tab are retrieved from the scanner every time you start WIDEsystem. This means that the Timer tab always displays the values currently stored in the scanner.
2. When WIDEsystem runs, it checks that the scanner's clock is within 2 minutes from the PC clock. If not, WIDEsystem will synchronize clocks. Normally this only happens when the

scanner's central power switch has been turned OFF manually and its clock needs to be reset.

3. If the scanner is in use then the scanner will delay power down. Just before automatic power down with the timer occurs, the power LED on the panel will flash. You can cancel power down by pressing the power button.
4. **Note** that the Idle time setting (Automatic power down) will still apply and may conflict with your *Timer* settings. Change the *Automatic Power down – Idle time* setting if it does.

4.9 Automatic Power Down – After Idle Time



On Scanners:

These scanners support an *Automatic Power Down after Idle time* functionality in addition to the *Timer* function described in the previous section. The *Automatic Power Down after Idle time* functionality is an ENERGY STAR[®] compliant feature.

NOTE: On delivery, your scanner was set to comply with the ENERGY STAR[®] environmental guidelines with entry into power down mode after being idle for 15 minutes. When you start the scanner the first time, you are offered the option to change this. If you chose to keep the default settings at that opportunity, you can at any later time change the settings by following the instructions below:

To change the *Automatic Power down – Idle Time*...:

1. Double-click on the scanner icon in the system tray to display the WIDEsystem interface.
2. Select the *Timer* Tab.
3. Select or Deselect the *Automatic power down* option in the *Timer* tab dialog.
4. If you selected the option, use the arrows to select the *Idle* time value – the number of minutes the scanner can stand idle before powering down on its own.
5. Press *Apply* to download your settings into the scanner's memory.

5. Loading Originals into the Scanner

5.1 Center-loading and Side-loading



On Scanners

These scanners support both Center-loading and Side-loading. The default method is Center-loading. The loading method can be selected in the scanning application. Center-loading is preferable to Side-loading, as the original will be positioned symmetrically on the feed rollers resulting in an optimal grip and straight scan path. Side-loading is for large irregular sized originals that you want to measure using the ruler above the insertion slot (see section on *Size Setting* below). All other scanners support center loading only and the loading method is not optional.

5.2 Manual-loading and Auto-loading



On All Scanners

You can use manual loading or automatic loading. The loading options are selected in the scanning application.

With **manual loading** you determine when the scanner pulls in the original:

1. Position the original in center or side according to your setting.
2. Push the original into the insertion slot until you feel it contact the rollers.
3. The Paper Ready LED lights green (yellow for thick media) when the original is positioned correctly for a straight scan path.
4. While holding the original in place with one hand, use the other hand to press and hold down the Paper Forward button on the scanner.
5. The original moves into the start-scan position.

With **automatic loading**, the scanner takes the original as soon as you insert it in the paper slot. Automatic loading is reliable for most jobs and especially useful for batch scanning jobs.

1. Position the original in center or side according to your setting.
2. Push the original into the insertion slot until you feel it contact the rollers.
3. The Paper Ready LED lights green (yellow for thick media) when the original is positioned correctly for a straight scan path.
4. The scanner will grab the original automatically and move it into start-scan position.
5. A delay factor can be set in the scanning application. The delay will give you time to control straight positioning if the scanner is grabbing the original too fast.

5.3 Fast-loading

Fast-loading is a time-saving loading option designed for batch scanning. The fast-loading option can be selected in the scanning application.

What is Fast-loading? – With normal (default) loading, i.e. without the Fast-load option selected, the original is pulled all the way into the drive system, past both roller axles, and then reversed to start-scan position in order to ensure precise detection of the original's placement in the scanner. With the Fast-load option selected, the original is pulled only under the first roller axle and scanning will start from there. The Fast-load option is convenient for batch scanning of originals with robust edges that feed easily. Normally, with batch scanning, you would use the Fast-load option in conjunction with automatic loading however you can also use manual loading to feed the original into start-scan position.

5.4 Soft-handling

Your device is designed to scan at very high speeds for maximum efficiency. However, some old, curled or creased originals can trigger a paper jam when fed and scanned at high speeds. You may also have a fragile original that you want passed delicately through the drive system. The Soft-handling option can be selected in the scanning application. With the Soft-handling option selected, both feeding and scanning are slowed down to enable smooth scanning of curled, creased, frayed or fragile originals. You can use the option with Manual, Auto or Fast loading.

Use this option when:

You received a *Paper Jam* error

1. A Paper jam error has occurred when the scanner stops scanning and the Paper-Ready key shuts OFF (from blinking) while the original is still engaged in the drive system. Your scanning application and WIDEsystem's Status tab will report the *Paper Jam* error.
2. Remove the original from the scanner. Use the Paper-Back or Paper-Forward keys. If the original does not respond, remove the pressure-platen as described under the section *Maintenance – Cleaning* and take the original out of the scanning area.
3. Select the Soft-handling option.
4. Feed the document again to scan.

You have a fragile original

1. Select the Soft-handling option.
2. Feed the original normally.

5.5 Loading Fragile Originals

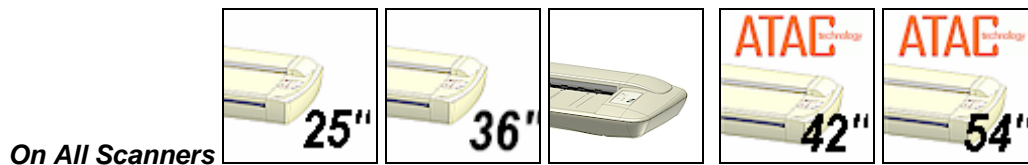


On Scanners:

On these scanners, gentle-feed control lets you protect very fragile documents by manually engaging the document into the drive system without feeding its edges into the rollers.

1. Raise the scanning area lid.
2. The rollers will lift and open the drive pinch.
3. Position your fragile document with the top edge past the backmost rollers.
4. Close the scanning area lid. The document will then be safely engaged in the drive system.

Loading fragile originals:



On All Scanners

Through your scanning application, you can set the scanner to feed and scan at a slower speed. See the previous section describing the *Soft-handling option*.

5.6 Pressure Weights – fine-adjusting for optimal pressure



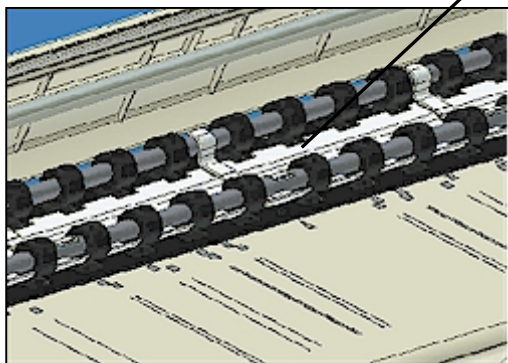
On Scanners:

On these scanners you can fine-adjust the pressure-platen's pressure on the original. You can add or remove one or more of the pressure-platen's loose pressure-weight-strips to give the specific original optimal contact with the glass-plate. This is useful when scanning originals that are either stiff or fragile.

To apply/remove weights:

1. Open the scanning area lid.
2. The pressure-weight-strips rest on the white pressure-platen.
3. To stabilize the weights on the pressure-platen, fit the holes in the pressure-weight-strips into the pins on top of the platen.
4. **Normal** weight for most original types is applied with 2 pressure-weight-strips.
5. Remove 1 or both pressure-weight-strips for **thin fragile originals**.
6. Add 1 or 2 additional pressure-weight-strips for **stiff originals**.

Weight strips rest on the top of the pressure platen.



5.7 Size Settings



Common standard sizes are marked on the scanner topside. Use these markings to guide you when positioning standard sized originals in the center of the scanner. Enter the size in your application's media size setup dialogs



For irregular sizes with these scanners, you can use Side-loading and the scanner's measurement ruler just above the insertion slot. The width setting for an original can thereby be measured with the original inserted into the scanner. Read the width and enter your measurement in the width setting box in your application's media size setup dialogs.

6. Scanning Thick Media

Many industries, such as reprographics and GIS, will find the need to digitize or copy images printed or pasted on thick media such as cardboard, foamboards, gatorboards etc. To support such needs you can change the vertical size of the insertion slot (pressure-platen height) on your scanner to fit the slot to the thickness of your original. Depending on your scanner model, adjusting the pressure-platen's height is either a manual or automatic process.

6.1 Adjustment for Thick Media – Slider Controls



On Scanners:

You can manually change the insertion slot size (pressure-platen height) on your scanner from 2mm to 15mm (up to 0.6") so you can fit the slot to the thickness of your original. Originals up to 2mm thick should be scanned with the *Normal* (2mm) setting. Thicker originals will require adjustment for thick media.

Adjusting the insertion slot for thick media – Normal Method – For all original types:

1. Measure the thickness of your original to find the right setting.
2. Insert your fingers in the insertion slot and lift to open the scanning area lid.
3. The thickness adjustment sliders are on right and left sides of the pressure-platen.
4. The slider is divided into a *Normal* position and *Extended* positions.
5. The *Extended* settings are marked in inches and millimeters. Each step marks an interval, i.e., the 4 setting means documents from 2mm to 4mm etcetera.
6. The round metal button indicates the current setting (see illustration below). For paper thin originals this will be on the 2mm (0.08") setting – also called the "*Normal*" setting.
7. Press down on the right slider and move inwards (towards middle of scanner) to the correct thickness setting.
8. Press down on the left slider and move to the same thickness setting as above.
9. Close the scanning area lid.
10. Feed your thick original. The *Paper Ready* key will turn yellow (stop blinking) when the pressure-platen is positioned correctly and is ready to scan your thick original.

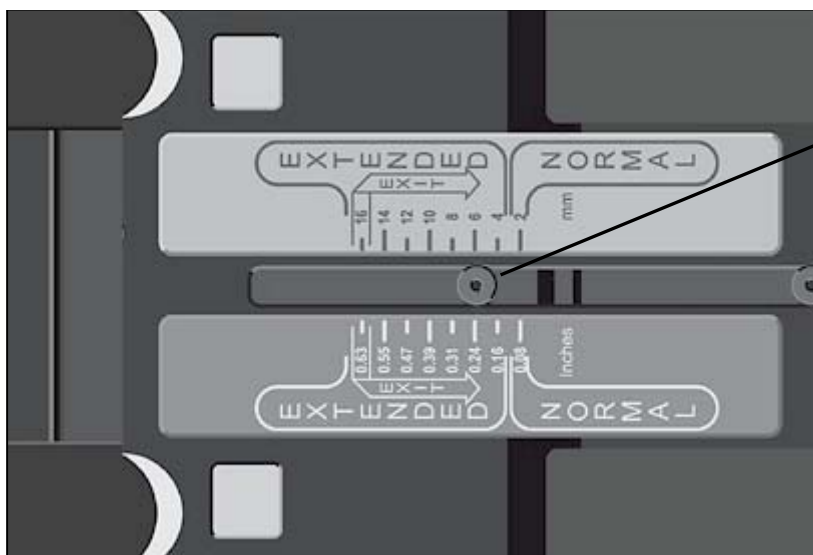
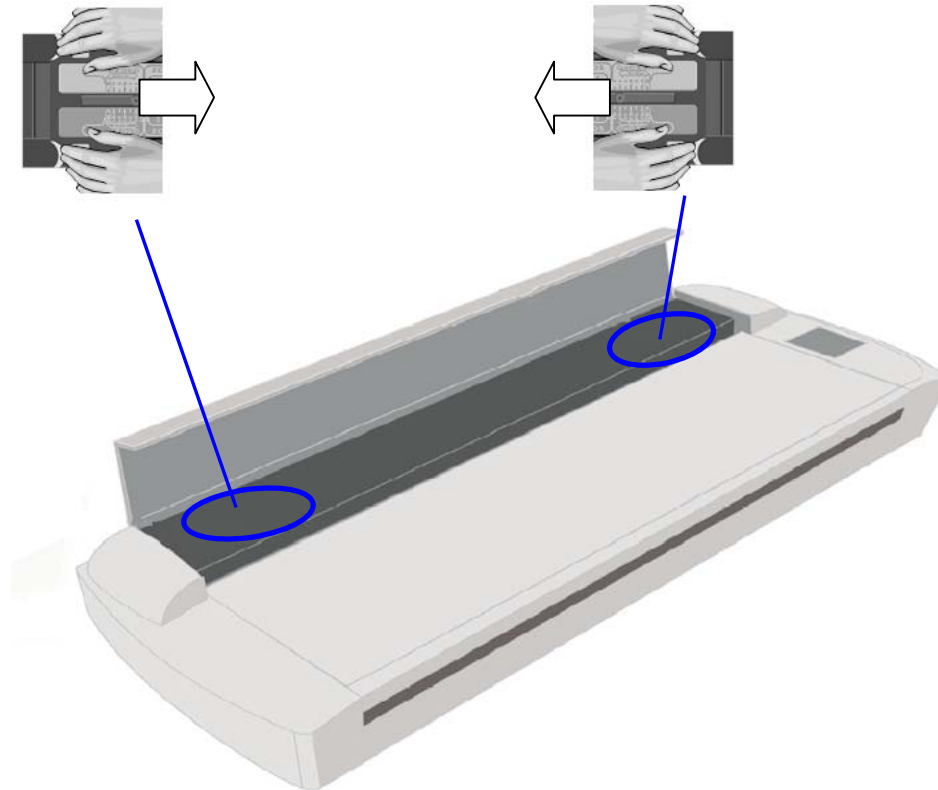
Quick method –for stiff and thick originals only:

You can use the following **Quick** method for stiff and hard surface originals. This method is not recommended for soft or flexible media such as originals mounted on foam boards, as there is a high risk for creating an over-tight insertion slot and causing damage to the original.

1. Insert your fingers in the insertion slot and lift to open the scanning area lid.
2. The thickness adjustment sliders are on right and left sides of the pressure-platen.
3. Press down on the right slider and move inwards (towards middle of scanner) to the highest setting, the 16mm (0.63") mark thickness setting. Repeat with the left slider.
4. Slide the original into the insertion slot and under the pressure-platen.
5. With both hands, press down gently on each side of the pressure-platen until you feel it contacts the original underneath and the sliders adjust themselves to the proper height.
6. Be sure to control that both sliders (on each side) are set to the same thickness value. If not, adjust the sliders so they are.
7. The *Paper Ready* key will turn yellow (stop blinking) when the pressure-platen is positioned correctly and is ready for thick media scanning.

Thickness Adjustments Sliders – Normal Method for all original types:

1. The sliders are on each side of the scanner.
2. Place both hands on a slider, push down and move the slider towards the scanner's middle while maintaining pressure.
3. Move to the correct thickness setting.
4. Be sure to set the sliders to the same setting on each side of the scanner.



Thickness Adjustment Slider

In this example, the button position shows the slider set for an original that is 6mm. (0.24") thick.

6.2 Adjustment for Thick Media – Lever Controls

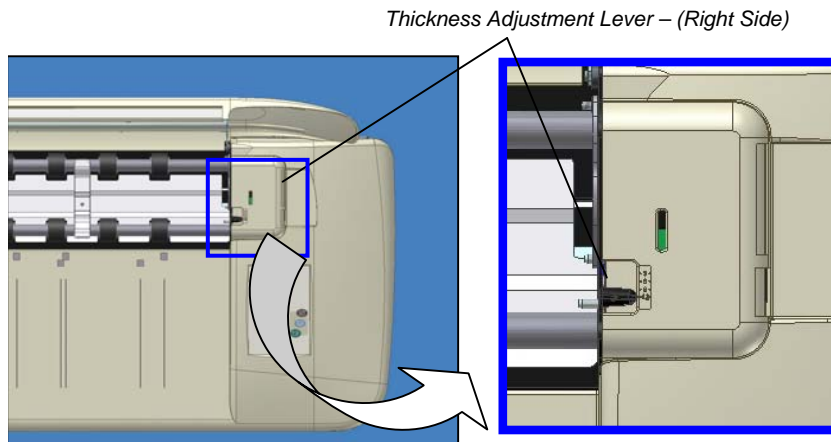


On Scanners:

On this scanner model you can adjust the insertion slot size (guide plate height) from 3 to 12 mm (up to 0.47”) using adjustment levers at each side of the scanner. Originals up to 3mm thick should be scanned with the 3mm (lowest) lever setting. Thicker originals will require you adjust the lever settings for thick media.

Adjusting the insertion slot for thick media - lever controls

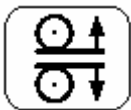
1. Raise the scanning area lid.
2. The thickness adjustment levers are found on the scanner’s right and left sides.
3. Measure the thickness of your original to find the right setting.
4. The lever’s numbered settings represent millimeters.
5. Be sure to set to the same thickness value on both sides.
6. For stiff originals, apply pressure-weight-strips if necessary. See the section on *Loading* for instructions.
7. Close the scanning area lid.
8. Feed your thick original The *Paper Ready* key will turn yellow (stop blinking) when the pressure-platen is positioned correctly and is ready to scan your thick original.



6.3 Automatic Thickness Adjustment Control



Scanners supporting Automatic Thickness Adjustment Control (ATAC) have an ATAC key on the operator's panel. You use the key to raise and lower the pressure-platen. You can change the insertion slot size (pressure-platen height) on your scanner from 2mm to 15 mm (up to 0.6"). Originals up to 2mm thick should be scanned with the pressure all the way down (normal position). Thicker originals will require you use the ATAC key to adjust for thick media.

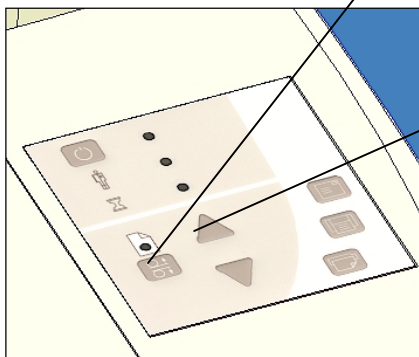


The ATAC key is on the operator panel.

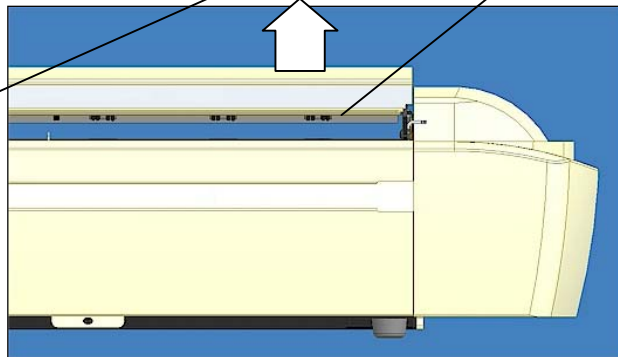
Adjusting the insertion slot for thick media with ATAC:

1. Press the ATAC key on your operator's panel to set the scanner in ATAC mode.
2. The *Paper Ready Indicator* blinks yellow indicating the scanner is in ATAC mode but not yet ready, i.e., the pressure-platen is not yet positioned on the thick original.
3. Press and hold the *Paper Forward* key (arrow up) key to raise the pressure-platen until there is room to insert the thick original.
4. Insert the thick original evenly for a straight scan path.
5. Press and hold the *Paper Reverse* (arrow down) key to lower the pressure-platen until the pressure-platen stops on its own.
6. The *Paper Ready* indicator will turn yellow (stop blinking) when the pressure-platen is positioned correctly and is ready for thick media scanning.
7. The scanner will automatically leave the ATAC mode, which means that the *Paper Forward* and *Paper Reverse* keys will return to their normal functionality for moving the original forwards and backwards.

Press the ATAC key on your operator's panel to set the scanner in ATAC mode.



Pressure Platen in UP position - Press and hold the *Paper Forward* key (arrow up) key to raise the pressure-platen.



6.4 When Scanning in Thick Media Positions



For Auto-adjustment – return to the *Normal* position.

The scanner employs an automatic self-adjustment procedure (light profile, stitching etc.) that can only auto-activate when the scanner is in the *Normal* position. With prolonged scanning in extended thickness settings, you should from time to time return the scanner to its *Normal* position to allow it to self-adjust. This will ensure refreshed self-adjustment and optimal performance of your scanner. Make a habit of always setting the scanner in the *Normal* position when shutting down, so it can auto-adjust the next time you turn it ON

NOTE:The scanner runs at its optimal speed in the *Normal* position. To allow stable drive handling, scanning speed is automatically reduced when the scanner is in the extended thickness positions.

Modifying Stitching Parameters

Thick stiff originals will rest on top of the scanner rollers and thus raise a small distance over the glass-plate. This can lead to irregularities in the stitching of images at points between the cameras (overlapping pixels). In such cases, the stitching parameters will need to be modified. You can modify stitching parameters through your scanning application.

1. Insert your thick original in the scanner and scan the image using your scanning application.
2. Check the result in the viewer for overlapping or missing pixels in the camera transition areas.
3. Adjust the stitching values in the application's scanner setup dialogs.
4. Repeat scanning and adjustment until the effect is minimized.

Treating Edge Distortion

Scanning thick originals can give distortions when the front edge meets the exit rollers or the trailing edge leaves the entry rollers. To omit this, the leading and trailing edges are by default skipped when in an extended thickness position.

Leading/trailing edge skipping can be turned off through the scanning application's setup dialogs.

Supporting Thick Originals

Center-loading is the best method for loading thick originals. Its also important to help support the original during scanning - both at the entrance side and the exit side of the scanner. Specially designed support tables can be attached to the back of the scanner. Such a table is recommended for high volume thick media scanning. Ask your local dealer for purchase information.

7. Maintenance

7.1 Regular Scanner Maintenance

Regular scanner maintenance is a sure way to minimize costly downtime. The three routine maintenance procedures **cleaning**, **camera alignment** and **calibration** will improve image quality and reduce your service costs.

The three maintenance functions are closely entwined and they should all be performed in a single maintenance session, starting with cleaning the scan area and ending with calibration. The reason for this is simple. If you clean the glass or adjust the cameras then you will have changed conditions in the scanning area and will need to calibrate in order to readjust black, white and color interpretation. This works the other way as well – scanner calibration must always be preceded by cleaning and camera alignment to get reliable calibration results.

Scanner Maintenance is very easy to perform and most of it is completely automatic. After manually cleaning the scan area, you just insert a Calibration Sheet, start the Scanner Maintenance program and let the wizard take over as it performs camera alignment and calibration.

The tools for scanner maintenance were supplied with your scanner - including the program that will check your scanner and guide you through the maintenance steps. Be sure to install the Scanner Maintenance program from the *WIDEsystem TOOLS* CD-ROM. For best results, run the maintenance procedures right after setting up your scanner for the first time.

7.2 Cleaning the Scan Area

A clean scan area is vital for optimal results.

In order to access the scan area for cleaning or other maintenance purposes, you have to free the pressure-platen. On some scanner models, the pressure-platen is completely detached from the scanner. On scanners with Automatic Thickness Adjustment Control (ATAC), the pressure-platen is fixed inside the scanning area lid and you just have to open it. Cleaning instructions for each scanner type follow below:



Caution: do not use abrasives, acetone, benzene or fluids that contain these chemicals. Do not spray liquids directly onto the scanner glass-plate or anywhere else in the scanner.





Caution: Before cleaning the scan area, be sure to turn the scanner power off and disconnect the power plug.



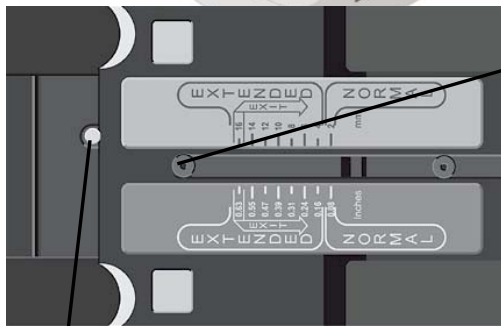
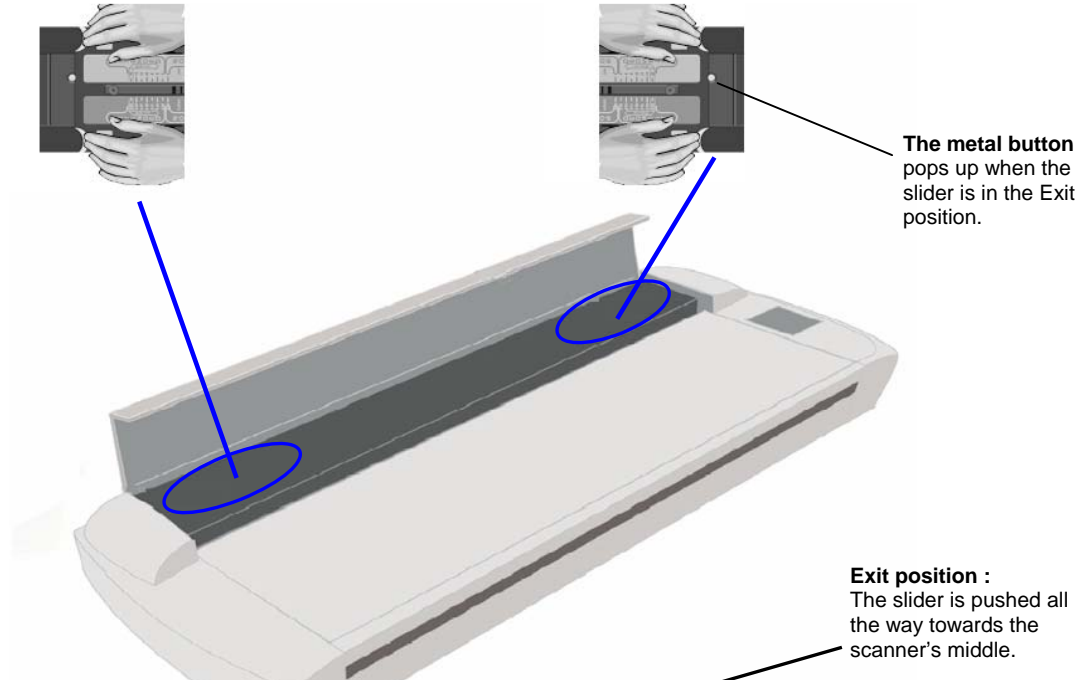
NOTE: be sure to also clean the scanner's flat surface so dirt and dust are not dragged into the scan area with the original.

Cleaning the Scan Area**On Scanners:**

1.  Turn the scanner power off and disconnect the power plug.
 2. Place your fingers in the insertion slot and flip open the scanning area lid.
 3. Press down on the extended media thickness adjustment slider on the right side of the pressure-platen.
 4. While maintaining pressure, slide the right extended media thickness adjustment slider towards the middle of the pressure-platen (see illustration below).
 5. Push the slider all the way until the metal safety button under the slider pops up (see illustration below).
 6. Repeat the process on the left side.
 7. Make sure the platen is completely free.
 8. On the topside of the pressure-platen are one or two hinged handles. Flip up the handles and use them to lift out the pressure-platen (see illustration below).
 9. The glass-plate is now exposed for cleaning. Clean the glass with a lint-free cloth and a mild, streak-free, glass cleaner. Dry the glass completely using a separate clean, dry lint-free cloth like the one provided with the maintenance kit.
 10. The white-background-platen is on the backside of the pressure-platen you just removed. Flip the pressure-platen over to clean the white background.
 11. Wipe the white area and the transport rollers with a lint-free cloth and a mild, streak-free, glass cleaner. Apply the cleaner to the cloth and first wipe the platen's white area and then the transport roller's surface.
 12. Dry the pressure-platen and rollers completely using separate clean, dry lint-free cloths.
 13. Reverse the above procedure to reinsert the pressure-platen. On each end, you will need to press down the metal button before you can move the slider back from the Exit position.
 14. Clean also the scanner surface so dirt and dust are not dragged into the scan area with the original.
 15. Cover your scanner with the plastic dust cover when not in use.
-  **Caution:** Make sure the scanner power is OFF when using the scanner dust cover.

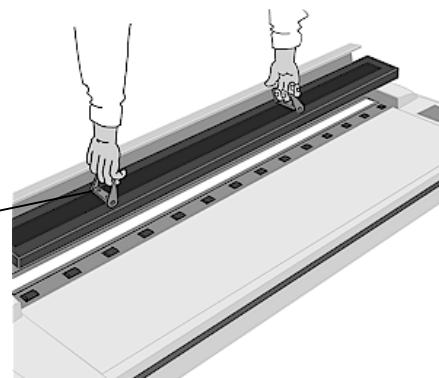
Cleaning – To access the scan area - Move the sliders to the exit position and free the pressure-platen

1. The extended media thickness adjustment sliders are on each side of the scanner.
2. Place both hands on a slider - push down and move the slider all the way towards the scanner's middle while maintaining pressure until the metal button pops up.
3. Repeat this on both left and right side sliders to free the pressure-platen.



The metal button pops up.


Flip up the handles and use them to lift out the pressure platen. Clean the exposed glass and the white-background-platen on the backside of the pressure-platen.




Cleaning the Scan Area



On Scanners:

1.  Turn the scanner power off and disconnect the power plug.
2. Place your fingers in the insertion slot and flip open the scanning area lid.
3. The drive system automatically lifts up.
4. Grasp the white pressure-platen on its back edge braces. Tip up the back edge of the pressure-platen and lift it out to expose the glass-plate underneath.
5. Clean the glass with a lint-free cloth and a mild, streak-free, glass cleaner. Dry the glass completely using a separate clean, dry lint-free cloth like the one provided with the maintenance kit.
6. On this scanner, the pressure-platen's backside also serves as the white background. Wipe the white backside of the pressure-platen and the transport rollers with a lint-free cloth and a mild, streak-free, cleaner.
7. Dry the pressure-platen and rollers completely using separate clean, dry lint-free cloths.
8. Reinsert the pressure-platen. First place the pressure-platen's front braces so they rest on the front drive axle.
9. Tip the platen backwards until the pressure-platen's back braces rest on the backmost drive axle.
10. Close the scanning area lid.
11. Clean also the scanner surface so dirt and dust are not dragged into the scan area with the original.
12. Cover your scanner with the plastic dust cover when not in use.

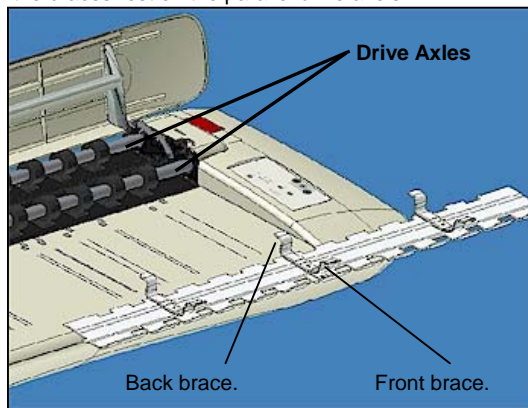
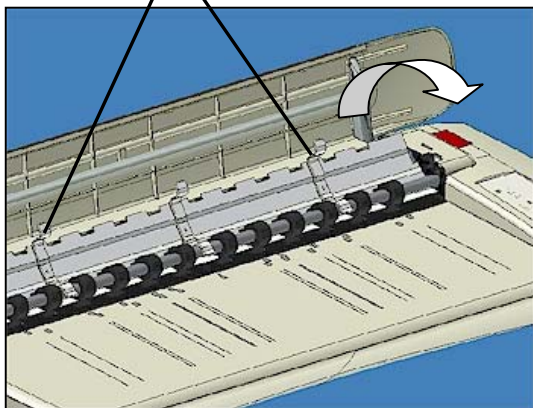
 **Caution:** Make sure the scanner power is OFF when using the scanner dust cover.

Cleaning – To access the scan area – remove the pressure-platen

To remove the pressure-platen

Grasp by the braces on the pressure-platen's backside edge.


Flip up the back edge and lift out the pressure-platen. When you reinsert the pressure-platen: position so the braces rest on the parallel drive axels.




Cleaning the Scan Area

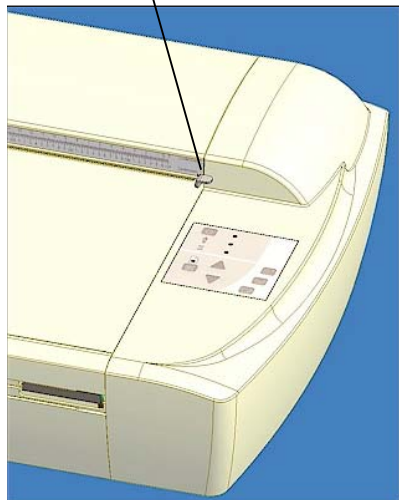


On Scanners

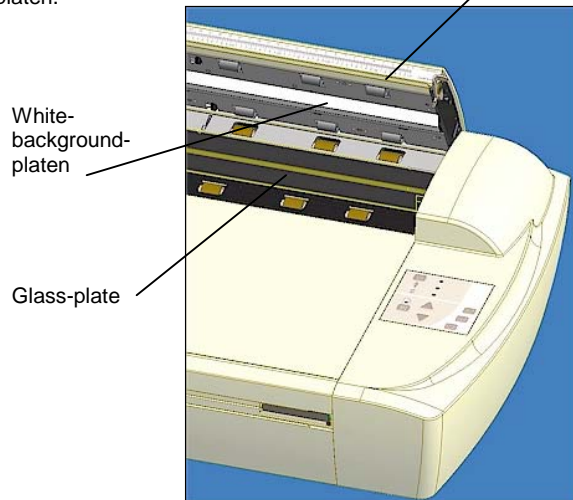
1.  Turn the scanner power off and disconnect the power plug.
2. Push down on the two lever buttons found near the insertion slot on each side of the scanning area lid.
3. The scanning area lid locking mechanism should now be disengaged.
4. As you hold both lever buttons down, place your free fingers in the insertion slot and flip the scanning area lid open.
5. The glass-plate is now exposed for cleaning.
6. Clean the glass with a lint-free cloth and a mild, streak-free, glass cleaner. Dry the glass completely using a separate clean, dry lint-free cloth like the one provided with the maintenance kit.
7. The pressure-platen with the white-background-platen (white metal area) is fixed in the scanning area lid. Hold the lid open as you clean.
8. Wipe the white area and the transport rollers with a lint-free cloth and a mild, streak-free, glass cleaner. Apply the cleaner to the cloth and first wipe the platen's white area and then the transport roller's surface.
9. Dry the platen and rollers completely using separate clean, dry lint-free cloths.
10. Close the scanning area lid when finished. The locks will reengage.
11. Clean also the scanner surface so dirt and dust are not dragged into the scan area with the original.
12. Cover your scanner with the plastic dust cover when not in use.

 **Caution:** Make sure the scanner power is OFF when using the scanner dust cover.

Push down lever (on both sides) to unlock scanning area lid.



While holding down the levers, insert fingers in the slot and flip the lid open to access the glass-plate and white-background-platen.

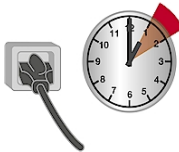


7.3 Running the Scanner Maintenance Program

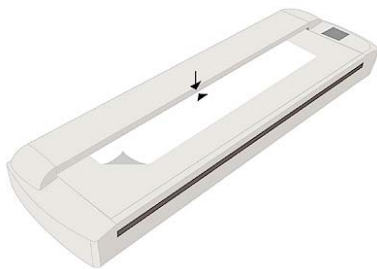


For optimal results, you should always run the Scanner Maintenance program after cleaning.

1. Make sure that the scanner has been turned on for at least one hour prior to camera alignment and calibration. Slight light intensity changes and camera shifting can occur just after turning the scanner on and the warm-up time will ensure that light conditions and camera heights have stabilized.



2. On your PC, Select *Programs > Scanner Maintenance* to start the Scanner Maintenance Wizard.
3. The wizard will guide you through the maintenance steps - Camera Alignment, Stitching and Calibration. Click the *Next* button in the welcome dialog to proceed.
4. The wizard will ask you to insert the Calibration Sheet that came with your scanner. **The sheet's printed side must be inserted face down.** Align the midpoint arrow with the scanner's midpoint arrow and feed the sheet into the scanner. Click *Next* to continue.



Inserting the Maintenance Sheet

Align the midpoint arrow with the scanner's midpoint mark and feed the sheet into the scanner.






5. The program immediately analyses **alignment and stitching** status of the cameras. If the cameras are unaligned, the program and scanner will automatically make the necessary corrections. This step will be bypassed on single camera scanner models.
6. After Camera Alignment, the Scanner Maintenance program automatically moves on to **Basic Calibration**. Basic Calibration sets black/white values and ensures stable and clean scans by reducing noise and unwanted effects caused by dust particles.
7. On color scanners, the program automatically proceeds to **Color Calibration**. Color Calibration uses the ANSI IT8 standards to ensure stable and predictable colors every time.
8. Calibration completes the maintenance process. Remove the Scanner Calibration Sheet from the scanner.
9. Return the Scanner Calibration Sheet to its protective cover and then place it in the storage folder. Store the folder in a dry place and out of direct light.


7.4 Replacing Scanner Parts

This section describes how to replace those scanner parts that are liable to wear down over long-term use. Changing parts will renew your scanner and ensure optimal results. WIDESystem monitors scanner usage and will warn you when it is time for a replacement.

NOTE: *For glass plate and White background platen replacement:* After receiving a warning by WIDESystem and replacing the part, be sure to reset the part replacement warning flag though WIDESystem’s “Status” tab.

Some scanner models are designed so users can replace parts on their own (user-replaceable parts) while other scanner models will require a service technician. The instructions in this section apply only for scanners with user-replaceable parts.

| Scanner Type | Parts that are User-Replaceable |
|---|--|
|  | No parts user-replaceable - Contact your service technician for replacing parts. |
|  | No parts user-replaceable - Contact your service technician for replacing parts. |
|  | Glass-plate, White-background-platen, Lamp |
|  | Glass-plate, White-background-platen, Lamp, Dust filters |
|  | Glass-plate. |

 **Important Safety Instruction:** Before replacing any user-replaceable parts, be sure to turn the scanner power off and disconnect the power plug.




7.4.1 Replacing the Glass-plate

Some scanner models are designed so users can detach the glass-plate from the scanner in order to replace scratched glass-plates with new ones. On other scanner models, a service technician must perform this process. See your scanner's model specifications to see if the glass-plate is detachable.

Replacing the Glass-plate:



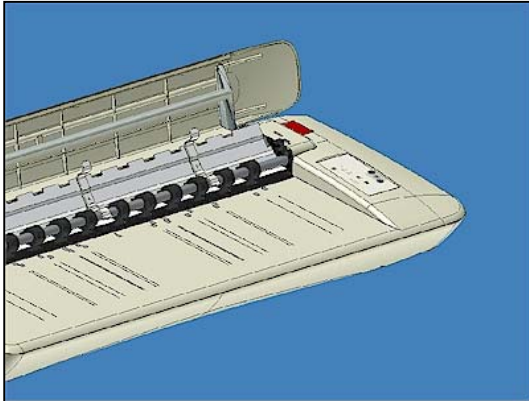
On Scanners:

1.  Turn the scanner power off and disconnect the power plug.
2. Place your fingers in the insertion slot and flip open the scanning area lid.
3. The drive system automatically lifts up.
4. Lift out the pressure-platen to expose the glass-plate underneath.
5. On the right side of the glass-plate there is a small round finger-handle.
6. Place your finger under the finger-handle and lift the glass-plate's right side upwards.
7. As soon as there is space under the glass-plate, use your free hand to grip under the glass-plate and carefully lift it out of the scanner.
8. Reverse the process to reinsert a new glass-plate. Position the right side of the new glass-plate in the scanner and let down the right side using the round finger-handle.
9. Reinsert the pressure-platen so its braces rest on the parallel drive axles.

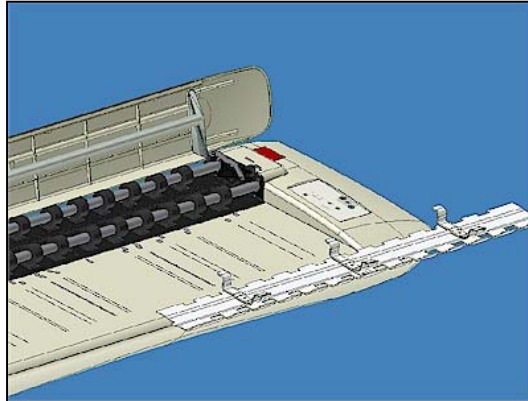
NOTE: Make sure you clean a new glass-plate before using it with the scanner.
NOTE: Be sure to reset the part replacement warning flag though WIDeSystem's "Status" tab.

To Remove the glass-plate

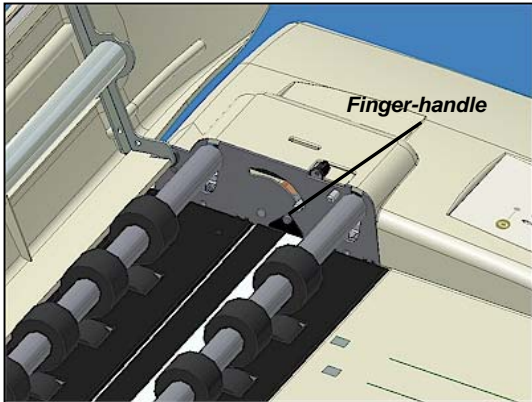
Step 1: Open lid and tip up the pressure-platen.



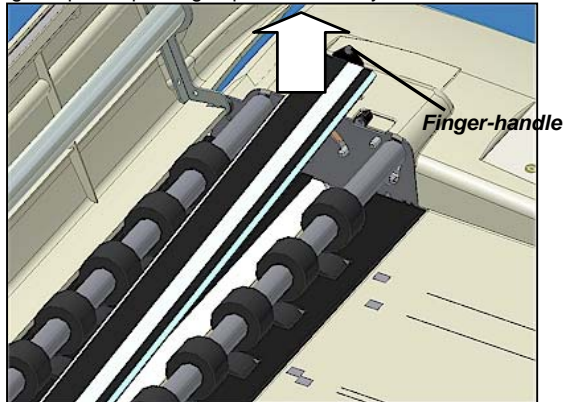
Step 2: Remove the pressure-platen.



Step 3: Locate the small round finger handle on the right side.



Step 4: With your finger on the round handle, lift the glass-plate up and grasp under it with your free hand.



Replacing the Glass-plate:



On Scanners:

1. Turn the scanner power off and disconnect the power plug.
2. Push down on the two lever buttons found near the insertion slot on each side of the scanning area lid.
3. The scanning area lid locking mechanism should now be disengaged.
4. As you hold both lever buttons down, place your free fingers in the insertion slot and flip the scanning area lid open.
5. The glass-plate will be exposed and accessible.
6. On each side of the glass-plate there is a small lever and round finger-handle (see illustration below). Place your thumbs under both handles on each side.
7. With both arms, pull simultaneously on the left and right levers to flip the glass-plate towards your body.

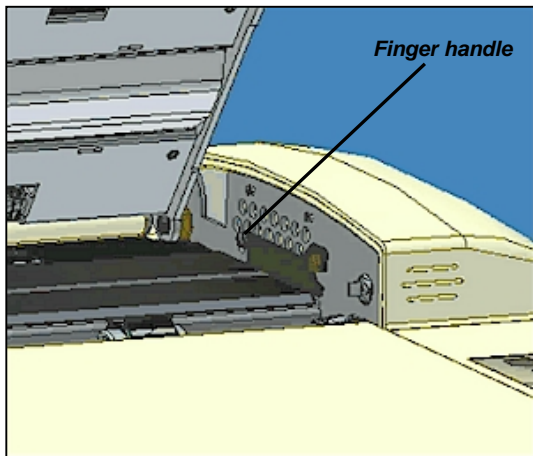
8. Each lever is attached to the scanner chassis with a small hook that rests on a pin. Simultaneously lift both levers upwards to detach their hooks for the pins and free the glass-plate from the scanner.
9. To reinsert a new glass-plate – Fit the new glass-plate’s lever hooks on the pins on each side of the scanner.
10. While supporting the glass-plate with your thumbs on the finger handles, carefully push the glass-plate backwards (away from your body) and ease it down into place.
11. Close the scanning area lid.

NOTE: Make sure you clean a new glass-plate before using it with the scanner.

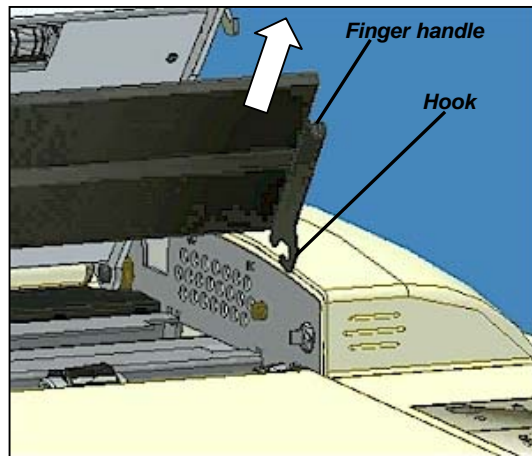
NOTE: Be sure to reset the part replacement warning flag though WIDeSystem’s “Status” tab.

Remove the glass-plate:

Step 1: Open the lid. Locate the lever’s finger handle on each side. *Shown below: Right side finger-handle.*



Step 2: Flip back. Lift the lever’s hooks and glass-plate free of the scanner.



7.4.2 Replacing the White-Background-Platen

Some scanner models are designed so users can replace the white-background-platen. On other models, a service technician must perform this process. See your scanner’s model specifications to see if the white background is user-replaceable on your scanner.


A white-background-platen can become worn and discolored after long periods of use and replacement with a fresh white-background-platen is recommended. WIDeSystem monitors scanner usage and will warn you when it is time for a replacement.

Replacing the White-background-platen:



On Scanners:

On these scanner models, the pressure-platen itself functions also as the white-background-platen. Replacing the white-background-platen means replacing the scanner’s (white) pressure-platen.

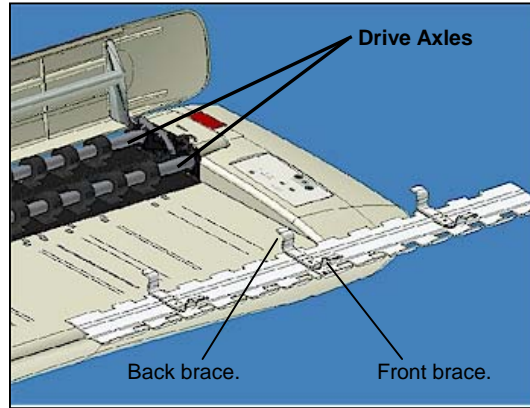
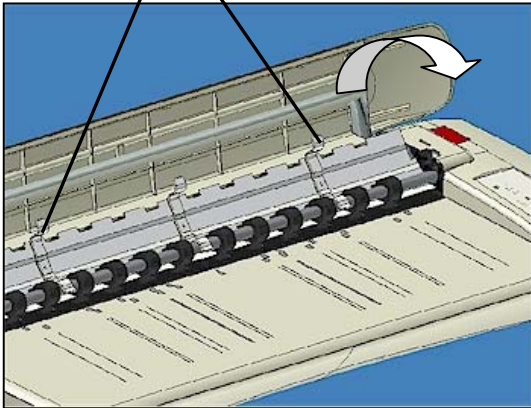
1.  Turn the scanner power off and disconnect the power plug.
2. Place your fingers in the insertion slot and flip open the scanning area lid.
3. The drive system automatically lifts up.
4. Grasp the white pressure-platen on its braces – back edge. Tip up the back edge of the pressure-platen and lift it out.
5. Replace with a new pressure-platen. Insert the new pressure-platen. First place the pressure-platen's front braces so they rest on the front drive axle.
6. Tip the platen backwards until the pressure-platen's back braces rest on the backmost drive axle.
7. Close the scanning area lid.

NOTE: Be sure to reset the part replacement warning flag though WIDESystem's "Status" tab.

The white background and pressure platen are the same. To remove the pressure-platen:

Grasp by the braces on the pressure platen's back edge.


Flip up the back edge and lift out the pressure-platen. When you reinsert a new pressure-platen: position so the braces rest on the parallel drive axels.



Replacing the White-background-platen:



On Scanners:

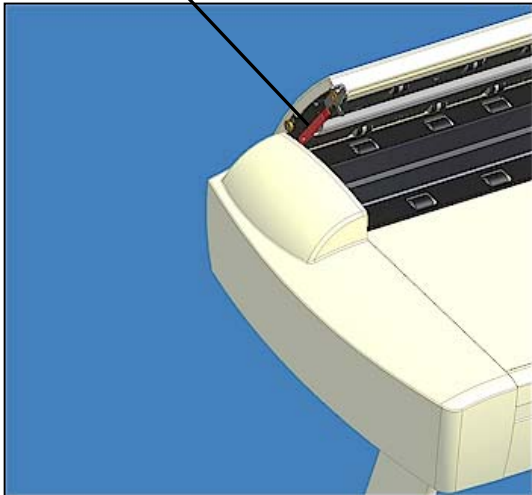
1.  Turn the scanner power off and disconnect the power plug.
2. Push down on the two lever buttons found near the insertion slot on each side of the scanning area lid.
3. The lid's locking mechanism should now be disengaged.
4. As you hold both lever buttons down, place your free fingers in the insertion slot and flip the scanning area lid open.
5. On the lid's left edge, you will find a red strip. Remove the red strip to expose the edge of the white-background-platen.
6. Grip the edge of the white-background-platen with your fingers and pull to slide it out of the scanner.
7. Slide in a new white-background-platen.

8. Reattach the red strip.
9. Close the scanning area lid so the locking mechanism reengages.

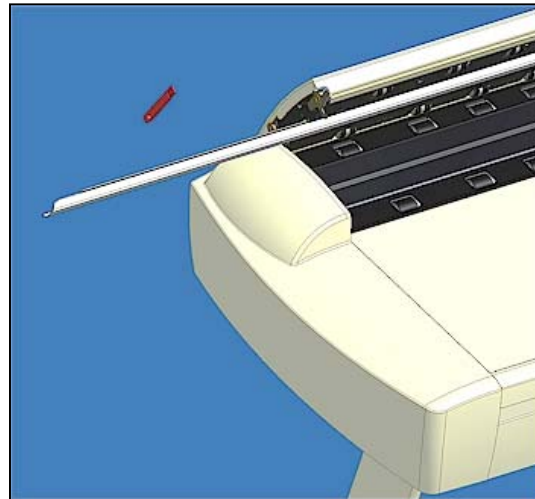
NOTE: Be sure to reset the part replacement warning flag though WIDEsystem’s “Status” tab.

To change the white-background-platen:

Open the lid and locate the red strip on the left side of the scanner.



Remove the strip and slide out the white background platen. Reinsert a new platen and replace the strip.



7.4.3 Replacing the Scanner Lamp-Unit


Your scanner comes with a high quality and durable lamp. Even so, its effectiveness will gradually weaken over time. Some scanner models are designed so users can replace the lamp. On other models, a service technician must perform this process. See your scanner’s model specifications to see if the lamp is user-replaceable on your scanner.


A new lamp-unit (lamp, reflector, power connectors) for lamp-replaceable scanner models can be obtained through your dealer. WIDEsystem monitors scanner usage and will warn you when it is time for a replacement.

Replacing the Scanner Lamp-unit:



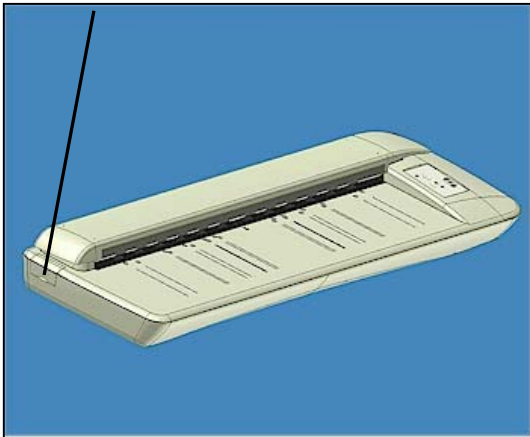
On Scanners:

1.  Turn the scanner power off and disconnect the power plug.
2. The lamp cover is on the left side of the scanner.

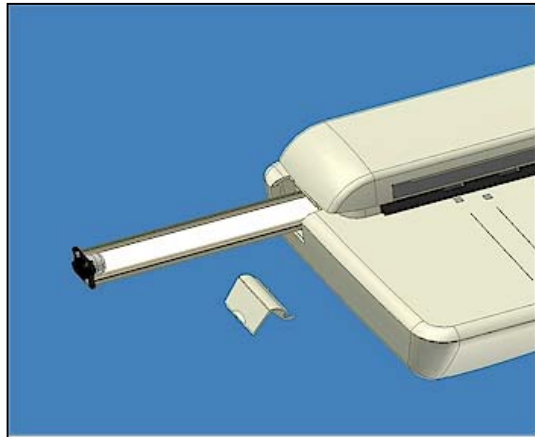
3. Place your fingers under the small handle on the bottom of the cover and hold the top with your thumb.
4. Lift upwards to release the catch and then flip back to remove the cover.
5. You must replace the whole lamp-unit. A lamp-unit consists of a lamp mounted in a reflector brace and fixed power connectors.
6. Grasp the edge of the lamp-unit and carefully pull it out of the scanner.
7. Reinsert the new lamp-unit. Rest the power-connector side on the slider and carefully push the lamp-unit into the scanner.
8. Insert the lamp-unit all the way so the internal power connections engage with the connections on the lamp-unit.
9.  Replace the lamp cover - fit the hinges in the holes and snap the cover shut. The cover must always be closed before turning scanner power ON.
10. Test the replacement by turning power on to see if the lamp lights.

To replace the lamp-unit:

Locate the lamp cover on the left side of the scanner.




Open the lamp cover as described above. Pull out the lamp-unit and replace with a new one.




Replacing the Scanner Lamp-unit:



On Scanners:

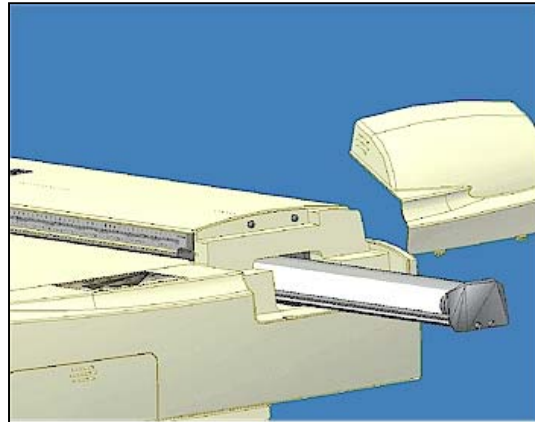
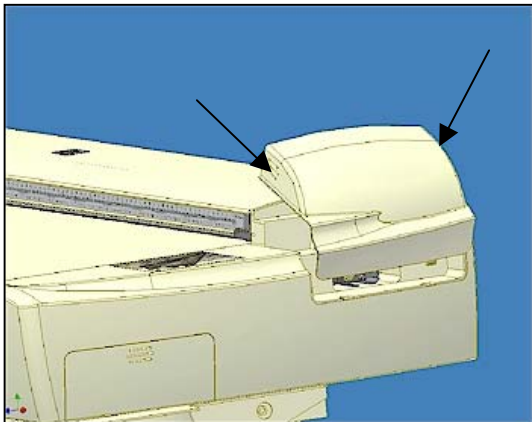
1.  Turn the scanner power off and disconnect the power plug.
2. The lamp cover is on the top right edge of the scanner.
3. Grasp the cover on each side with both hands and pull back to detach.
4. Lift the cover upwards to free it from the scanner.
5. You must replace the whole lamp-unit. A lamp-unit consists of a lamp mounted in a reflector brace and fixed power connectors.
6. Grasp the edge of the lamp-unit and carefully pull it out of the scanner.
7. Reinsert the new lamp-unit. Rest the power-connector side on the slider and carefully push the lamp-unit into the scanner.
8. Insert the lamp-unit all the way so the internal power connections engage with the connections on the lamp-unit.

9.  Replace the lamp cover on the scanner - fit the bottom notches in the holes and snap the cover shut. The cover must always be closed before turning scanner power ON.
10. Test the replacement by turning power and scanner on to see if the lamp lights.

To replace the lamp-unit:

The lamp cover is on the right side of the scanner. Grasp the cover on both sides, pull back and then up to detach.

Free the cover from the scanner. Pull out the lamp-unit and insert the new one.




7.4.4 Replacing the Dust-Filters

Fresh dust filters can reduce the amount of time spent on cleaning and calibration. The dust filters protect your scanner's air-cooling vents. Some scanner models are designed so users can replace the dust filters. On other models, a service technician must perform this process. See your scanner's model specifications to see if the dust filters are user-replaceable on your scanner. WIDESystem monitors usage and will warn you when it is time for a replacement.

Replacing the Dust-filters:

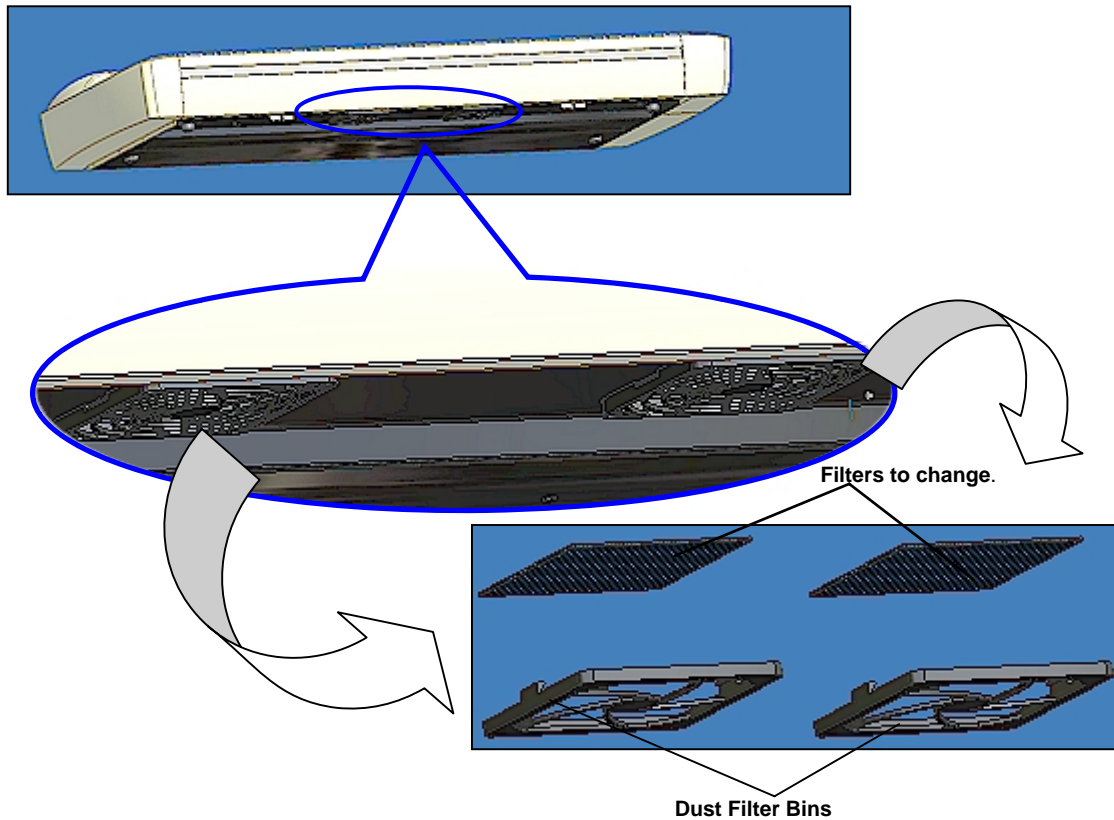


On Scanners:

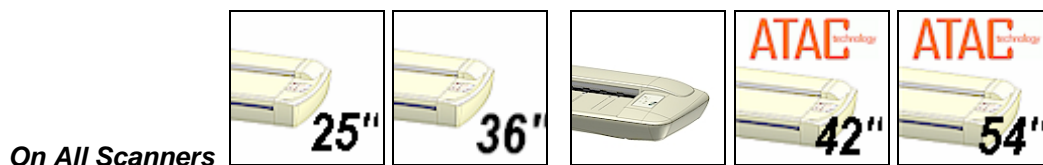
1.  Turn the scanner power off and disconnect the power plug.
2. Locate the 2 square-shaped dust filter bins on the underside of the scanner.
3. Pull down on the edge of a dust filter bin to detach it from its frame.
4. The filter (soft material) is inside the bin. Remove the old filter and replace with a fresh one.
5. Reattach (click on) the bin to its frame on the underside of the scanner.
6. Repeat the process with the second filter.

Changing the Dust-filters:

The filter bins on the underside of the scanner. Pull down on a filter bin's edge to detach a filter bin from its frame.



7.5 Downloading New Firmware



Like a computer, your scanner employs processors that require software in order to work. This software is called "Firmware". Firmware is the software that runs inside the scanner.

When to use new firmware?

Your scanner is shipped with the latest firmware available. You can afterwards upgrade your original firmware with newer firmware and continue to do so as they are released. Firmware upgrades can be downloaded from your manufacture's website or obtained through your dealer.

Upgrade your firmware when:

- 1. One or more new features are released or other improvements are made to the scanner though its firmware.
- 2. An error is discovered in the firmware version you have in the scanner and your manufacturer recommends installation of new firmware in which the error is corrected.

Your manufacture's website specifies improvements for every new firmware release.

How to identify the firmware version running in the scanner?

1. Start WIDeSystem – double click on the system tray’s scanner icon.
2. Select the **Info** tab.
3. The Info tab displays useful data about your scanner firmware.
 - *Firmware release* - Upgradeable firmware version.
 - *Firmware revision* - Firmware build number.
 - *Firmware timestamp* - The date/time the current firmware code was compiled.
 - *Firmware download time* - The date/time the current firmware was downloaded.

You can upgrade if the *Firmware Release* number is lower than the newest firmware version number on your manufacture’s website.

How to install new firmware?

New firmware is installed by opening a firmware .exe file. The firmware .exe file must first reside on your machine. Select the Save target (or Save Link) option if downloading from the web.

To install the firmware file on your scanner:

1. Download/save the firmware .exe file in a folder on your machine.
2. Start WIDeSystem’s Quick menu - Right-click the scanner icon in the system tray.
3. Select *Advanced Options*. Select *Update Scanner Firmware*
4. Browse the folders on your machine and find the firmware .exe file you wish to apply.
5. Select the firmware file and click OK to install. Installation can take up to 1 minute depending on the scanner model and firmware version. The WIDeSystem scanner icon on your system tray blinks red during the download process.
6. Follow the instructions on your screen.
7. For recovery of errors during firmware installation, see the section on the *Firmware Boot mode*.

7.6 Monitoring Your Scanner



You installed WIDeSystem in order to install the scanner drivers (see this guide’s section on *Installation – Install Drivers and Maintenance Software*). WIDeSystem also contains an application part that monitors the scanner and reports on its functionality. You can access WIDeSystem directly by clicking on the scanner icon on your Windows system tray.

Double click the system tray’s scanner icon to activate the WIDeSystem control interface.

Here are some of the features obtainable with WIDSystem:

- Gain visual indication that the scanner is connected to the PC.
- View the scanner's status, in WIDSystem called the *Scanner Mode*, by moving the mouse over the scanner icon on the system tray. Status messages include remaining warm-up time, interface connection errors, and an indication that the scanner is ready for scanning.
- View useful Error messages that relate to the actual Scanner Mode. Press F1 to launch the WIDSystem on-line help system and find descriptions/instructions on trouble shooting specific errors displayed.
- View the load status of the original (media) to be scanned.
- Setup the scanner's timer to determine times for **automatic power-up / power-down** for each day of the week.
- View information on the scanner device in relation to firmware and hardware revisions. The information helps you keep track of your upgrades and is useful for support purposes.
- Initiate a scan of the systems hardware bus for re-establishing the interface.
- Quick launch of installed scanning applications.
- Assign/reassign applications to the scanner's one-touch-scan buttons, or disable the one-touch-scan buttons altogether.
- Set up your scanner so it can be **shared** by user PC's **on the network**.
- Set up your PC to receive scanned files into a special scan-to-file **designated folder**.

Note:

Double-click the scanner icon and press F1 to launch the WIDSystem on-line help system. The on-line help contains full instructions on using the WIDSystem program.

8. Trouble Shooting Common Problems

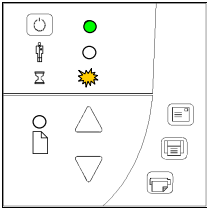
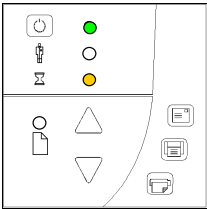
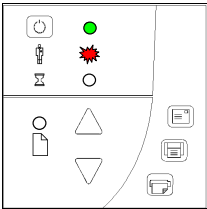
This section describes trouble-shooting procedures for the most common problems that can arise with your scanner. Please look for a problem description that matches your actual situation. If found, perform the trouble-shooting procedures before requesting a service call.

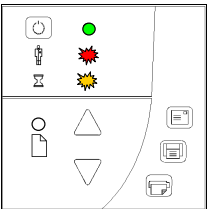
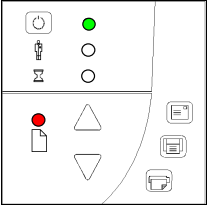
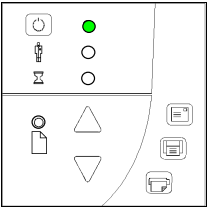
8.1 Problems Related to Scanner Installation

| Problem | Possible Causes and Remedies |
|--|---|
| <p>“Unknown device is found” message.</p> | <ol style="list-style-type: none"> 1. Your interface is not enabled on the PC or set up correctly. Go through the installation steps for your interface board and its driver and control that the Windows device manager lists the interface option. 2. WIDEsystem drivers were not installed before connecting the scanner. Shut down the scanner and PC, unplug the connections and restart the installation from step 1 as described above. If you continued installation before installing WIDEsystem, see the troubleshooting instructions below. 3. Loose interface connection – on both ends, unplug and then firmly plug-in the interface cable. 4. Smart Card not inserted correctly. Control that the smart card contact side faces downwards and the card is inserted all the way in its slot. 5. System needs rebooting - shut down the scanner and PC, unplug the connections. Then plug in the interface connections, turn on the PC and when Windows is loaded, turn on the scanner. |
| <p>Need to reinstall. I got the “Unknown device is found” message and continued installation of the scanner. Now the scanner appears as incorrectly installed on my system.</p> | <p>If you connected and tried to install the scanner before installing WIDEsystem, the unknown device found message will appear. If you continued to step through the dialogs from there, the scanner will be entered on the system as a new device without functional drivers. If this is the case, the scanner will be displayed in the Windows Device Manager with a yellow error icon. The scanner entry must be removed from the Device manager before re-installing correctly.</p> <ol style="list-style-type: none"> 1. In the Device Manager - remove the scanner entry. 2. Shut-down the PC, shut down and unplug the scanner, disconnect the scanner from the PC. 3. Reboot the PC and install WIDEsystem and Maintenance software 4. Refer to the installation instructions for your interface type in this guide. |
| <p>SCSI interface connection not detected.</p> | <ol style="list-style-type: none"> 1. Go through the Cause/Remedies suggestions for “Unknown device is found message”. If this does not help, try the suggestions below. 2. Make sure the default device number or the device number you set in the DIL switches is set to a number that is different from other devices on the system. 3. Make sure that device termination is set correctly in the SCSI DIL switches. Follow the instructions in this manual under Installation - SCSI interface connection. 4. Make sure you have not set any of the test control DIL switches 5, 6, 7, 8 to ON. |

| | |
|--|--|
| <p>WIDsystem does not detect the scanner.</p> | <ol style="list-style-type: none"> 1. The WIDsystem driver version installed on your PC is older than your scanner model. Install the WIDsystem drivers from the WIDsystem TOOLS CD-ROM that came with your scanner. If not available, download the newest version from your manufacturer's website or contact your dealer to obtain the right WIDsystem version. 2. WIDsystem drivers were not installed before connecting the scanner. Shut down the scanner and PC, unplug the connections and restart the installation from step 1 as described above. 3. Loose interface connection – on both end, unplug and then firmly plug-in the interface cable. 4. System needs rebooting - shut down the scanner and PC, unplug the connections. Then plug in the interface connections, turn on the PC and when Windows is loaded, turn on the scanner. |
|--|--|

8.2 Problems Related to Operation of the Scanner

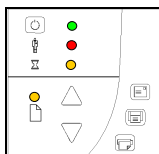
| Problem | Possible Causes and Remedies |
|---|---|
| <p>Wait light flashes, diagnostics light is off</p>  | <ol style="list-style-type: none"> 1. The scanner needs to run Self-Adjustment but cannot. Self-Adjustment cannot run with a raised pressure platen or with media in the scanner. Self-Adjustment is necessary for maintaining optimal and stable internal conditions. Remedy: Any original in the scanner should be removed, and the pressure-platen should be set to the <i>Normal</i> position (i.e., not a thick media setting). 2. When Self-Adjustment becomes possible, the Wait LED stops flashing, but continues to be on until Self-Adjustment is completed. 3. If the error doesn't disappear turn the scanner off and then on. 4. If the error persists, you can reinitialize all settings by unplugging the scanner and waiting a few minutes before turning power on again. |
| <p>Wait LED goes on during calibration</p>  | <ol style="list-style-type: none"> 1. This is NORMAL - The Wait LED goes on during Calibration to indicate that the original should not be removed or moved during the Calibration procedure. All panel input is prevented during basic calibration. |
| <p>Diagnostics LED flashes</p>  | <ol style="list-style-type: none"> 1. An Error was detected during the scanner's Self-Test. Open WIDsystem (scanner icon on your system tray) and select the Status tab to view additional information about the error. |

| | |
|--|--|
| <p>Both wait and diagnostics LEDs flash</p>  | <ol style="list-style-type: none"> 1. The scanning area needs cleaning and the cameras need to be calibrated. Run through the scanner maintenance steps described in this guide. 2. If the Diagnostic and the Wait LEDs continue to flash after scanner maintenance, then there may be camera position errors that require help for your technical service provider. |
| <p>Paper Ready lights RED</p>  | <ol style="list-style-type: none"> 1. The pressure-platen is in a thick media setting (a raised pressure-platen) but the scanner does not detect the media. If you are scanning thick media, insert the thick media into the scanner. 2. If the problem persists with thick media in the scanner, control that the pressure-platen level is correct. Repeat the steps for correct adjustment for thick media as described in this guide. |
| <p>Error message: Paper Jam</p>  | <ol style="list-style-type: none"> 1. A Paper jam error has occurred when the scanner stops scanning and the Paper-Ready key shuts OFF (from blinking) while the original is still engaged in the drive system. Your scanning application and WIDSystem's Status tab will report the <i>Paper Jam error</i>. Remove the original from the scanner. Use the Paper-Back or Paper-Forward keys. 2. If the original does not respond to the Paper Forward, Paper-Back keys, remove the pressure-platen as described under the section <i>Maintenance – Cleaning</i> and take the original out of the scanning area. 3. Select the Soft-handling option in your scanning application. 4. Feed the document again to scan. |
| <p>Error message: Correction of Camera X (A, B, C, or D..) failed</p> | <ol style="list-style-type: none"> 1. Your scanner is continuously monitoring its cameras. This error message often appears when the internal glass plate or white background platen is dirty or smudged. Clean the scanning area, reboot the scanner and then complete the maintenance steps (alignment and calibration) as described in the section <i>Maintenance</i> in this guide. 2. If the problem persists after cleaning the scanner area - The problem could be caused by a loose object in the optical path. Remove any torn pieces of paper or other loose objects from the scanning area. Even the smallest loose objects will disturb the scanner's adjustment function. 3. Summon your technical service provider if the problem persists. |

| | |
|--|---|
| <p>Error message: Stitching of Camera X/Y (A/B or B/C or C/D) failed</p> | <ol style="list-style-type: none"> 1. Your scanner is continuously monitoring its cameras. This error message often appears when the internal glass plate or white background platen is dirty or smudged. Clean the scanning area, reboot the scanner and then complete the maintenance steps (alignment and calibration) as described in the section <i>Maintenance</i> in this guide. 2. If the problem persists after cleaning the scanner area - The problem could be caused by a loose object in the optical path. Remove any torn pieces of paper or other loose objects from the scanning area. Even the smallest loose objects will disturb the scanner's adjustment function. 3. Summon your technical service provider if the problem persists. |
| <p>Error message: Invalid Smart Card for this scanner type.</p> <p>Error message: No Smart Card found.</p> | <ol style="list-style-type: none"> 1. Control that a Smart Card is in the Smart Card slot. See the section <i>Smart Card</i> in this guide for instructions on locating your scanner's Smart Card slot. 2. Smart Card not inserted correctly. Control that the smart card contact side faces downwards and the card is inserted all the way in its slot. Shut down scanner power and restart to initialize with the smart card data. |
| <p>Error message: Unable to Adjust Camera</p> | <ol style="list-style-type: none"> 1. Control that the scanner is set for <i>Normal</i> (lowest) media thickness. The scanner's pressure-platen must not be raised. Lower the original guide plate on both sides to let the scanner make its adjustments. 2. If the thickness setting is/was Normal - there could be a loose object in the optical path. Remove any torn pieces of paper or other loose objects from the scanning area. Even the smallest loose objects will disturb the scanner's adjustment function. 3. If the problem persists after controlling for loose objects in the optical path – the problem is often caused by an unclean or smudged internal glass plate or white background platen. Clean the scanning area, reboot the scanner and then complete the maintenance steps (alignment and calibration) as described in the section <i>Maintenance</i> in this guide. 4. If the problem persists after cleaning the scanner area and all above possibilities have been attempted - summon your technical service provider. |
| <p>Application control keys (one touch) do not work</p> | <ol style="list-style-type: none"> 1. Check the One Touch setup entries in WIDESystem. Click on the scanner icon to open WIDESystem and select the <i>One Touch</i> tab. View WIDESystem Help for instructions. 2. Check that the applications defined in the WIDESystem One Touch setup entries are installed on your PC 3. Make sure that the applications defined in the WIDESystem One Touch setup entries are actually designed to work with (compatible with) your scanner's application control keys. See the application's documentation or contact the application software dealer. |

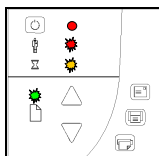
Can't operate or contact scanner after Firmware upgrade failure.

1. A power failure could interrupt an ongoing firmware upgrade process. The scanner will not run correctly after an interrupted firmware update process. Only part of the intended firmware may be loaded, rendering the scanner inaccessible. You need bring the scanner into firmware boot mode to reapply the firmware.
2. Restart the scanner. The scanner should start up in boot mode. If not, you can use the following panel function to force the scanner into boot mode.
3. Turn the scanner ON so it starts its Init-Sequence (all LEDs on). Towards the end of Init-Sequence, the Power LED lights green while the other LEDs remain lighted, signaling that you can interrupt the self-test to force Firmware Boot mode.



You have to activate the boot mode before the scanner moves into self-adjustment. Self-adjustment is started when the Wait LED lights yellow, the Power LED still lights green and all the other LEDs are off.) To activate boot mode, press and hold down the Power key.

When the Power LED turns red and the other LEDs flash (see below), the scanner is in Firmware Boot mode and you can reapply the Firmware.



4. On scanners with SCSI interface, you can force firmware boot mode by setting the DIL switch 7 to ON.

8.3 Problems Related to the Scanning Results

| Problem | Possible Causes and Remedies |
|--|--|
| <p>Not whole image scanned</p> | <ol style="list-style-type: none"> 1. Check in your scanning application that your size settings are either for Auto detection or correspond to the size of the whole original. 2. Check in your scanning application that you are loading the original correctly in relation to your choice of Center-loading or Side-loading. If you selected Side-loading in your application then the original must be fed into the side of the scanner starting from the 0 marking on the top ruler. If Center-loading was selected in the application then align the center of the original with the scanner's center arrow marking. |
| <p>Stitching problems – Image sections misaligned (at points between the cameras - overlapping pixels)</p> | <ol style="list-style-type: none"> 1. If scanning normal paper thin media – Remove the original from the scanner, turn power off and then on to reboot so the scanner runs its self-test procedure. The self-test includes camera-stitching correction. 2. If scanning normal paper thin media and above procedure does not correct the problem – Remove the original from the scanner and run full scanner maintenance. 3. If scanning thick media, thick stiff originals will rest on top of the scanner rollers and thus raise a small distance over the glass-plate. This can lead to stitching irregularities. In such cases, the stitching parameters will need to be modified. You can modify stitching parameters through your scanning application. See the section <i>When Scanning in Thick Media Positions</i> in this guide. 4. Summon your technical service provider if the problem persists. |
| <p>Edge distortion with thick originals</p> | <ol style="list-style-type: none"> 1. Scanning thick stiff originals can give distortions when the front edge meets the exit rollers or the trailing edge leaves the entry rollers. To omit this, the leading and trailing edges are by default skipped when in one of the extended media thickness positions. Leading/trailing edge skipping can be turned off/on through the scanning application's setup dialogs. If you encounter edge distortion, control that the Leading/trailing edge skipping option is set in your application. |
| <p>One or more thin vertical lines (in the direction of paper feeding) on the scan result, but not on the original drawing.</p> | <ol style="list-style-type: none"> 1. This is often caused by an unclean glass plate or unclean white background platen. Even a single spec of dirt in the wrong spot on the glass plate or background plate can apply a streak through your entire scan. To remedy, run a full scanner maintenance session – cleaning, alignment and calibration. The last two maintenance steps are also vital, as the scanner will have memorized dirt specs in previous calibrations and self-adjustments and you need to reset after dirt-removal. |

9. Appendix A: Important Safety Instructions



Read all of these instructions and save them for later use. Follow all warnings and instructions marked on the scanner.

- A.** Do not place the scanner on an unstable surface, stand, cart or table. Serious damage can be caused if the unit falls.
- B.** For cleaning, do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- C.** Before **cleaning** or replacing any **user-replaceable parts**, be sure to turn the scanner power off and disconnect the power plug.
- D.** The scanner should be operated from the power source type indicated on the marking label. If you are unsure of the type of power available, consult your dealer or local power company.
- E.** The scanner is equipped with a three-wire grounding type plug. This plug will fit only into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat or ignore the purpose of the grounding-type plug.
- F.** Do not allow anything to rest on the power cord. Do not locate the scanner where persons will walk on the cord.
- G.** If an extension cord is used with the scanner, make sure that the total ampere ratings of the products plugged into the extension cord does not exceed the extension cord ampere rating. Make sure that the total rating of all products plugged into the wall outlet does not exceed 15 amperes.
- H.** Slots or openings in the cabinet at the back or bottom are provided for ventilation. This ensures reliable operation of the product and protects it from overheating. These openings must never be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar soft surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
- I.** Never push objects of any kind into the scanner through cabinet slots since they may touch dangerous voltage points or short out parts that could result in a risk of fire or electrical shock. Avoid any possibility of spilling liquid of any kind on the scanner.
- J.** Do not attempt to service the scanner yourself. Opening or removing those covers requiring tools may expose you to dangerous voltage points or other risks. Refer all servicing in those compartments to authorized service personnel.
- K.** Unplug the scanner from the wall outlet and refer servicing to authorized service personnel under the following conditions:
 - When the power cord or plug is damaged or frayed.
 - If liquid has been spilled into the scanner.
 - If the scanner has been exposed to rain or water.
 - If the scanner does not operate normally when operating instructions are followed then adjust only those controls covered by the instructions in this manual. Improper adjustment of controls other than those mentioned in this manual may result in permanent damage and will at best require extensive work by a qualified technician to restore this product to its normal operation.
 - If the scanner has been dropped or the cabinet has been damaged.
 - If the scanner exhibits a distinct change in performance, indicating a need for service.

10. Appendix B: Regulations

FCC Regulations

USA

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution: Pursuant to Part 15.21 of the FCC Rules, any changes or modifications not expressly approved by the manufacturer may cause harmful interference and void the user's authority to operate the equipment.

CE Regulations

EU

Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Operator's Guide



MODELS:

18" - AA51A

36" - KA67E

Wide Format Copy Scanners

with iJET Panel

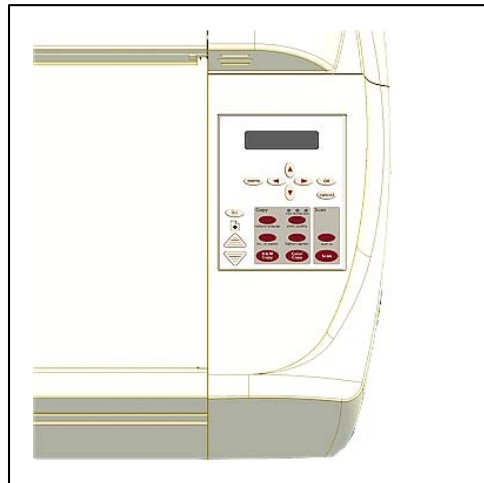
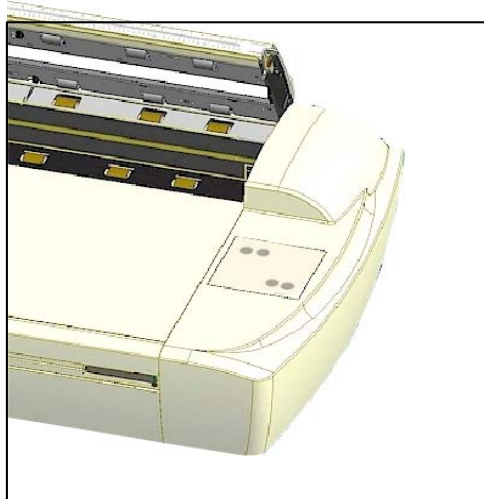


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1. About This Guide

This guide explains how to maintain and operate your wide format copy (iJET) scanner and its iJET Panel. The guide assumes basic knowledge of other optional configuration components such as printer, computer and operating system and does not repeat material from their documentation.

Be sure to refer to:

- The *Installation Guide* – accessed from the menu on the *WIDESystem TOOLS* CD-ROM – describes installation of your driver if interfacing your scanner with a PC.
- The readme.htm file in the ws folder on the *WIDESystem TOOLS* CD-ROM – contains the most current installation and OS compatibility issues.
- *WIDESystem TOOLS Help* – Press F1 after installing and opening WIDESystem. – Contains information on using the WIDESystem application, Scan2Net functionality and Scanner Maintenance software if interfacing your scanner with a PC.

Scope

This guide covers installation, operation and maintenance of your scanner. The guide covers only copying and scanning operation through the iJET Panel.



The scanner can also be operated and controlled through compatible scan and copy software installed on a PC that is either directly connected with the scanner or on the same network. While this guide will provide instructions on setting up the scanner with a PC, it will not describe in detail how to operate the scanner from that PC. Operation of scan and copy software is not within the scope of this guide. Please refer to the software’s documentation and on-line help for instructions on using the specific software application with the scanner.

Identify your scanner model icon

This operator’s guide covers several scanner models, although there are individual differences between the models. Use the guide’s **scanner type icons** to direct you to descriptions about your specific scanner model. Topics describing scanner functions that apply solely for specific models will be marked with one or several of the icons shown in the table below. Topics describing functions that apply for all models will be marked with all the icons.


Before proceeding, identify the icon that applies to your scanner model. You can then use the icon throughout this guide to find the function description that applies for your specific scanner.

If in doubt as to which icon refers to your scanner model, see the *Model* ID on the sticker on the back of the scanner. Models not listed in the table below are not within the scope of this guide.


| Icon in Guide | Applies for scanners... | Main Characteristics | Model IDs |
|---|------------------------------------|---|-----------|
|  | 18" (A2) wide format copy scanners | <ul style="list-style-type: none"> • Top fed - Flatbed • iJET Panel | AA51A |
|  | 36" wide format copy scanners | <ul style="list-style-type: none"> • Sheet fed - Insertion slot • iJET Panel • ATAC (Automatic Thickness Adjustment Control) | KA67E |

Additional Guide Icons:

- **Reference additional Details within this guide – Look for the “Manual” icon** 

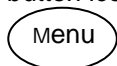
The **Manual Icon**:  marks a reference to another section in this guide where you can find more instructions on a certain function just named.

- **Operation from the panel – Look for the “On the iJET Panel” icon** 

The **On the iJET Panel Icon**:  marks instructions to actions you perform by pressing the buttons on the scanner’s copy operator’s panel.

- **Actual iJET Panel Button – Look for the “Button” icon** 

The **Button Icon** will often appear in this guide together with the iJET Panel Icon. The **Button Icon** marks which button to look for and press on the iJET Panel to initiate an action. The icon will contain the button name as seen on the iJET Panel. For example, instructions describing an action reached through the menu button will be marked with the button icon:

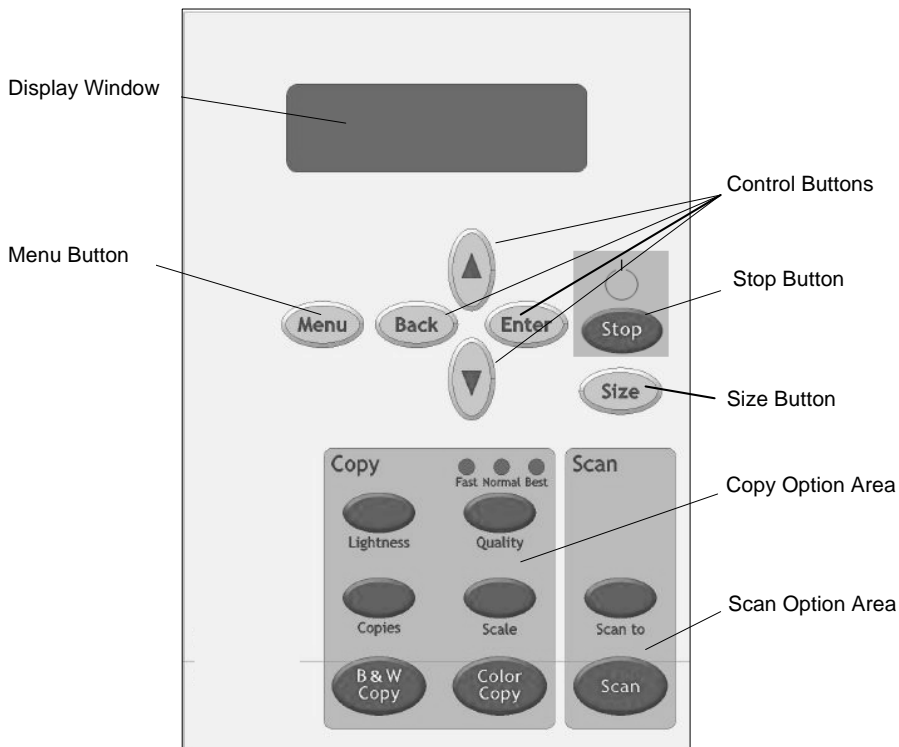


2. Using the iJET Panel

Before setting up your copy/scan configuration, you will need to familiarize yourself with the iJET Panel. A number of setup tasks are performed through the iJET Panel and will require that you know how to navigate the iJET Panel's menus.



Instructions on making specific settings will be described under each configuration type in the chapter "Copy Scanner Configuration and Setup".



The iJET Panel enables you to perform advanced copy and scan-to-file jobs straight from the scanner (and not from a PC and scanning software interface). The panel contains a display window, control buttons and option buttons.

- The **Display Window** contains the current selections as you make them and useful messages from the scanner regarding maintenance and operation.
- The **Menu button** leads to a options for copy settings and an *Advanced* submenu for configuration settings.
- The control buttons **arrow up, arrow down, Back, Enter**, are for navigating the menus and for selecting menu options.
- The **Stop button** is for interrupting a copy or scan process.
- The **Size button** is for setting the original's size (input size) for both copy and scan jobs.
- Below the control and menu buttons, are a **Copy Option Area** and a **Scan Option Area**, each with its own set of quick option buttons. These buttons are described below.



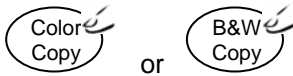
A complete overview of the panel's buttons follows at the end of this section.

2.1 To make a simple copy

The following procedure for making a copy presumes the following:

- The scanner and printer(s) are setup correctly as described in this Operator's guide.
- The *Size* button option is set to *Auto*.
- Options such as *Lightness*, *Scale*, *Original Type*, *Quality* and so on are all set to your standard settings and the job does not require special adjustments.

1. Load the original
2. Press the Color Copy button for color jobs or *B&W copy* button for *B&W jobs*.



For jobs that require adjusting the copy parameters, see the section "How do I make a Copy?" See also relevant sections for setting up the system and setting options.

2.2 To perform a simple Scan-to-File

The following procedure for making a copy presumes the following:

- The scanner is setup correctly with a local or network PC as described in this Operator's guide.
- The *Size* button option is set to *Auto*.
- *Scan-to* button options such as *Scan Mode*, *File Format*, *Resolution* and so on are all set to your standard settings and the job does not require special adjustments.

1. Load the original
2. Press the *Scan to* button and select a scan target. A (USB) target is a local PC.



3. Press the Scan button to start the job.



For jobs that require adjusting the *Scan to* parameters, see the section "How do I Scan to File?" See also relevant sections for setting up the system and setting options.

2.3 Operations on the iJET Panel

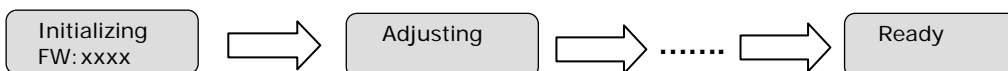
- Turn the scanner power ON/OFF (Soft Power ON/OFF)
- Make quick settings for Copying – *Lightness*, *Quality*, *Copies (no. of..)* and *Scale*.
- Make additional high level copy settings through the *Menu* button.
- Apply scanner and printer setup options through the *Menu* button - *Advanced*.
- Apply personal and local preferences through the *Menu* button - *Advanced*.
- Select a scan-to-file target through the *Scan to* button.
- Make advanced scan-to-file settings through the *Scan to* button
- Start a Copy (BW or Color) job.
- Start a Scan-to-file job.

2.4 Power ON/OFF

These power on/off instructions apply only after you have setup and configured your system as described in the relevant sections under “Scanner Configuration and setup”.

First time during setup (hard power ON)

1. Connect the scanner to the power outlet and turn on the outlet switch (scanner’s back).
2. The scanner runs a self-test and init procedure and after warming up it is ready to scan.
3. The text in the display window will tell you what the scanner is doing and when the scanner is ready to scan. Prior to the “Ready” message the scanner will need to self adjust.



Normally, after powering up for the first time as described above, you will leave the outlet switch permanently in the ON position, and turn scanner power on and off in the “soft” manner from the iJET Panel as described below. This is the method recommended for daily use as it is faster than hard power on.

To turn power ON from the iJET Panel (soft power ON)

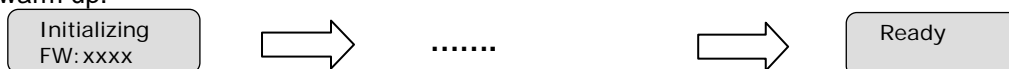
1. The scanner must be in *Soft Power OFF* mode. When the scanner is in soft power OFF mode, you will see the 3 *Print Quality* LEDs flashing alternately as shown below.



Press and hold down the *STOP* button for a few seconds until the iJET Panel’s display window becomes active (lights up).



2. The text in the display window will tell you what the scanner is doing and when the scanner is ready to scan. Prior to the “ready” message the scanner may need to initialize itself and warm up.



To turn power OFF from the iJET Panel (soft power OFF)

1. Press and hold down the *Stop* button for a few seconds until the iJET Panel’s display window light goes off.



When the scanner goes in soft power OFF mode, the 3 *Print Quality* LEDs light alternately as shown below.



NOTE: The outlet switch at the back of the scanner must be constantly flipped to the ON position in order to use Soft Power ON/OFF.

2.5 The iJET Panel Buttons - Overview

The *Menu* button



Menu button - The *Menu* button leads to the total range of options for copying and also the *Advanced* menu with all the system setup and configuration functions.

A complete description on how to navigate the menu and select options follows below.

The *Back* button



Control Button – for moving one level up when in a menu or for returning to an option's current (active) setting while in the process of editing the option's value.

The *Enter* button



Control Button – for entering the menu functionality for changing an option's value and for setting (accepting) the value once it is selected.

The *Size* button



Settings button - For setting the size of the original. The *Size* button is used for both copy and scan-to-file operation. Press the button to activate option setting. You then change the value each time you again press the button or with the arrow up/down buttons. You can select *Auto* detection or a standard size setting.

NOTE that *Size* is a global system variable that can be changed in 3 different ways: 1. With the *Size* button 2. With the *Menu* button > *Size* option and 3. With the *Scan-to* button > *Size* option. This means that when you change the size for a copy job, it will also apply for a scan-to-file job and vice versa unless you change it again.

The *Lightness* button



Lightness

Settings (quick) button - For increasing or decreasing lightness in the copy. Press the button to activate option setting. You then change the value each time you again press the button or with the arrow up/down buttons.

The *Quality* button



Quality

Settings (quick) button - For setting copy quality to *Fast*, *Normal* or *Best*. Press the button to activate option setting. You then change the value each time you again press the button or with the arrow up/down buttons.

The *Copies* button



Copies

(...Copies button) Settings (quick) button - For setting the number of (how many) copies you want output. Press the button to activate option setting. You then change the value each time you again press the button or with the arrow up/down buttons.

The Scale button



Option button - For setting a value that defines the output size in relation to the input size. For making copies larger or smaller than the original. Press the button to activate option setting. You then change the value to predefined scale ratios each time you again press the button. Use the arrow up/down buttons for fine tuning - 1 step increments of the currently displayed value. Press the *Enter* button to save.

The B&W Copy button



Action Button: The *B&W Copy* button will start the copy job using the settings made for B&W copying through the *Menu* button and the *Size, Quality, Copies, Lightness* and *Scale* buttons.


The Color Copy button



Action Button: The *Color Copy* button will start the copy job using the settings made for Color copying through the *Menu* button and the *Size, Quality, Copies, Lightness* and *Scale* buttons..

The Scan to button.



Menu Button - For selecting a scan-to-file target (PC on the network) and for setting scan-to-file options. You change the scan target each time you press the button. Keep pressing until you see the right target in the window. Then, pressing  will lead to the *Scan Menu* with its wide range of scan-to-file options you can select for the job. Scan-to-file options include modes, formats, and resolution.

The Scan button



Action button - The *Scan* button will start a scan job using the settings made for scanning through the *Scan To* button.

The Stop button



Action Button – This button has 2 functions: 1. For interrupting and terminating a scan or copy job before it is finished. 2. For turning the scanner ON, OFF in soft power mode.

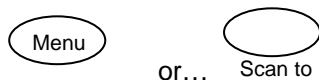


More details on using the iJET Panel buttons with copy and scan-to-file tasks are described in the relevant sections in the chapters “How do I Make a Copy” and “How do I Scan to File?”.

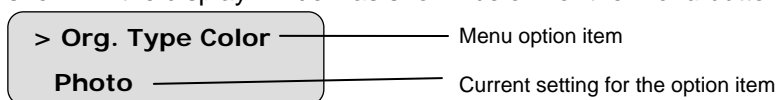
2.6 How do I Navigate the iJET Panel Menus?

This section explains how you find and set the many options behind the *Menu* button and the *Scan to* button. You will learn here how menu options and values are shown in the display window and how you use the control buttons *Back*, *Enter* and arrows up/down to reach them for setting and changing their values.


- When you press the one of these buttons you start its underlying menu.

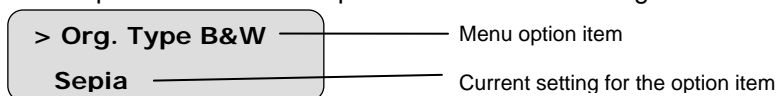



- A menu contains an ordered list of menu option items and each of these menu option items can be set to different values. Only one menu option item can be shown at a time in the display window. When you start a menu, its first menu option item and its current value is shown in the display window as shown below for the *Menu* button.



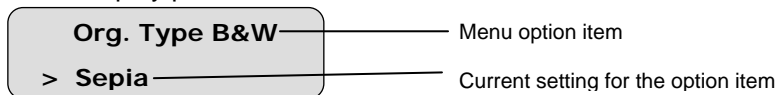
- The first line in the display is the menu option item and the second line is its current value. In the example above, the current menu option item is “Org. Type Color” and its value is “Photo”. The “>” marks which one of the two lines is currently active for changing with the arrow up/down buttons. In the example above, the first line, i.e the menu option item line is active.


Pressing the down arrow button  in this case will move the menu forward to the next menu option item and that option’s own current setting as shown below:



- The “>” marker in the example above shows that the menu option item “Org, Type B&W” is now active and “Sepia” is its current setting. To enter the menu option in order to make changes to its setting, you press the *Enter* button. 

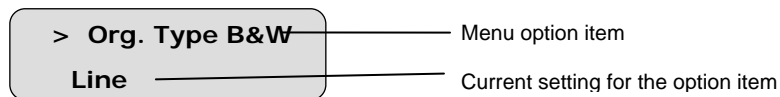
In the display panel the “>” mark will move down to the next line as shown below.



- The “>” marker now indicates that the setting for “Org. Type B&W” option can be changed. Pressing the up/down arrow buttons will move through the available settings. Press the *Enter* button  when the right setting is displayed to the right of the “>” marker. The selected setting will then become the option’s active setting and the “>” marker will hop back to the menu level (top line) so you can resume leafing through the menu option items with the arrow up/down buttons.



- From the display window shown above to the display window below: The user pressed the arrow down button until the value “Line” was displayed and then pressed **Enter** to accept that value as the new setting for the “Org. type B&W” option. The “>” marker moved back to the menu option item level enabling the user to continue navigating the menu with the arrow up/down buttons.



- When in a menu, you can press the **Back** button to return to a previous menu level or to reset the active option item to its last saved value.

- Press the **Stop** button if you need to cancel a started scan-to-file or copy job.



- The copy area quick buttons *Lightness*, *Quality*, *Copies* and *Scale* are shortcuts to option items behind the *Menu* button. Their values can be changed through repeated pressing of the quick button or else in the traditional manner with the arrow up/down buttons as with other menu option items.



The quick buttons *Lightness*, *Quality*, *Copies* and *Scale* are described in detail in the relevant sections of the chapter “How do I Make a Copy”.

3. Scanner Configuration and Setup Instructions

Your Copy scanner supports iJET technology for copy and scan-to-file functionality. The iJET panel enables you to set options on the scanner so you can copy straight from the device without a controller-PC and software. Furthermore, your scanner can be connected directly to the LAN enabling it to function with other devices such as printers and PCs that are on the same network. Finally, your scanner supports both USB device (input) and USB host (output) interfaces for direct connection to a printer and to a PC that can control the scanner through scan/copy software.

This wide range of connection and operation capabilities means that your scanner can be set up in many different ways or “configurations” to match the needs of your business. For clarity, we have termed the main configuration possibilities and their components as follows:

| | Configuration Type | Components - Description |
|---|--|---|
| 1 | Stand Alone Copier Configuration | Scanner connected directly (no PC) to one or two printers. |
| 2 | Network Scan/Copy Device | Scanner connected directly (no PC) to the network. The scanner is set up to be recognized on the network by network PCs and also setup to recognize/use network PCs as scan targets. The scanner is setup to use network printers. |
| 3 | Scan/Copy Station on Local PC | Scanner connected to a PC through USB interface. Scan/copy software is installed on the PC. |
| 4 | Combinations of the above for Multiple Functionality | The scanner is connected to a local PC and a local printer. The scanner is also connected directly to the network in order to be shared by network PCs and to use network PCs as scan targets. The scanner can also use network printers. |

This operator’s guide section describes each of these configurations, including its components, requirements and step-by-step installation instructions. Please note that **combinations** of the first three configurations (present in above list as **configuration nr. 4**) are not only possible, but in many cases also recommended in order to get the full range of scan-to-file and copy functions out of your device and maximum flexibility for your business .



More on combining configurations in the section “Combining Configuration Types for Multiple Functionality.”

NOTE: About interface connection cables: Your scanner came with a number of interface cables. Refer to the supplied document: “NOTE ON INTEFACE CABLES” for instructions on which cables to use with your specific configuration.

All the configurations described in the following sections apply...



On All Scanners

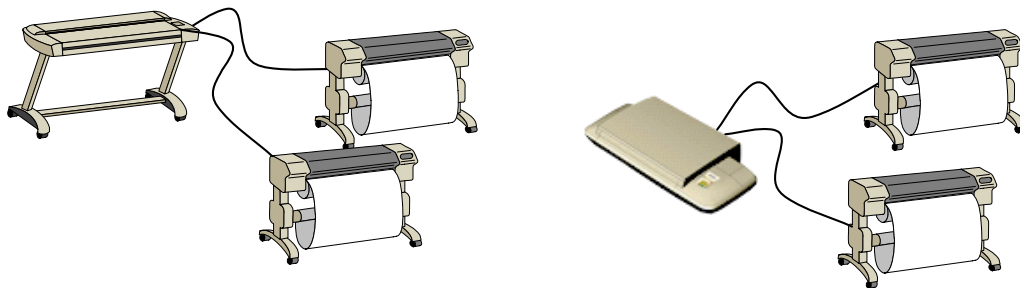
3.1 Connect the scanner directly to printer(s) - Stand Alone Copier

Components: Wide format copy scanner and one or two large format printers. The Scanner is connected directly (no PC or network) to one or two printers.


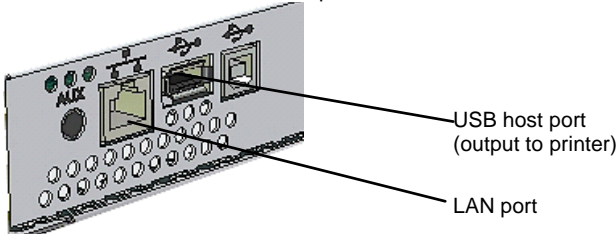

Usage: For copying large format documents. This configuration can create printed output only. All operation takes place from the iJET Panel (scanner).


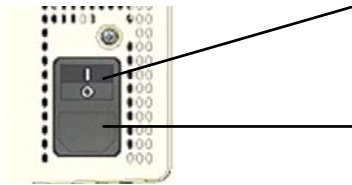





System Requirements:








- Wide Format Copy scanner
- Compatible large format printer(s)
- USB cable or twisted LAN cable or both. - for connecting the scanner to the printer(s)



Printers are connected through USB or LAN interface

| Step | Description – Stand Alone Copier Configuration |
|-----------------|--|
| <p>1</p> | <p>Set up your scan station and control the smart card</p> <p>Your wide format copy scanner should be placed either on the specially designed stand-alone floor stand or on a sturdy table. For sheet-feed models, make sure there is enough space behind the scanner to allow the media to run out.</p> <p>Make sure that the scanner's smart card is in place.</p>  See the sections “Physical Placement of the Scan Station” and “Maintenance-Locate the Smart Card” for detailed instructions for your specific scanner model. |
| <p>2</p> | <p>Connection – scanner end</p> <p>Connect the USB cable or LAN cable to the scanner. Check your printer's interface options to select which of these to use. For USB use the USB host (output) port which is the flat rectangle shaped socket. See the document: “NOTE ON INTERFACE CABLES” for instructions on the specific interface cable types to use with this configuration.</p> <p>You can attach two printers at a time – a B&W printer and a Color printer. Note that the scanner has only one USB out connection so a second printer will have to be able to use the LAN connection.</p>  <p>USB host port (output to printer)</p> <p>LAN port</p>  See the section “Locating the Interface Cable Connector Panel” for instructions regarding your specific scanner model. |

| | |
|----------|--|
| <p>3</p> | <p>Connection - printer end Connect the other end of the USB interface cable or LAN cable to the large format printer.  See the section "Locating the Interface Cable Connector Panel" for detailed instructions for your specific scanner model.</p> |
| <p>4</p> | <p>Connect scanner power cable At back of the scanner, you will find the scanner-end power cable socket, just below an Outlet switch. Connect the cable to the scanner plug socket and the grounded power source. Do not yet turn on the Outlet switch on the scanner.</p>  <p style="text-align: right;">Scanner-end power socket</p> <p>Caution: The scanner is equipped with a three-wire (pin) grounding type plug. If you cannot insert the plug into your outlet, contact your electrician to replace the outlet and ensure a grounded power connection. Do not try to defeat or ignore the purpose of the grounding-type plug.</p>  |
| <p>5</p> | <p>Connect the printer's power cable.</p> |
| <p>6</p> | <p>Perform Preliminary Maintenance – Cleaning Clean your scanner's flat surface so dirt and dust are not dragged into the scan area with the original. Clean the internal Scan area.  See the section "Scanner Maintenance" for instructions on accessing the scan area and cleaning for your specific scanner model.</p> |
| <p>7</p> | <p>Turn (power) on the scanner and the printer To turn on the scanner - at back of the scanner, above the scanner-end power cable plug you will find an Outlet switch. Flip the Outlet Switch to ON. The scanner starts the init and self test sequence and you must wait until these are finished.</p>  <p><i>Power outlet and switch is found at the back of the scanner</i></p> |
| | <p>Perform Preliminary Maintenance - Calibration Some scanner models support calibration from the iJET panel. For other models you will need to use a PC with WIDEsystemNET and Scanner Maintenance software installed. To run scanner maintenance:  On the iJET Panel Select <i>Menu > Advanced > Options > Calibrate Scanner > Yes</i> to start calibration. If the option is not present in the iJET panel menu: Use a local or LAN connected PC with WIDEsystem and Scanner Maintenance installed. Left click on the WIDEsystem scanner Icon and select Launch Scanner Maintenance from the menu. Follow the instructions on your screen.  See the section "Scanner Maintenance" for detailed instructions.</p> |

| | |
|------------------|---|
| <p>8</p> | <p>Set localization Preferences</p>  <p>On the iJET Panel - Select <i>Menu > Advanced > Options >...</i> to set preferences for language, paper series and media handling (loading).</p>  See the section on options for " <i>Personalizing and localizing the system</i> " for details. |
| <p>9</p> | <p>Make Printer Setup settings on the scanner</p> <p>You can setup for two printer types – a B&W printer and a color printer. After you setup your printers, pressing the Color Copy button will send the output to your color printer and pressing the B&W Copy button will send the output to your B&W printer.</p>  <p>On the iJET Panel</p> <p>Printer set up is described for <i>Color Printer</i> below. The same rules and method applies for <i>B&W Printer</i> setup. Select <i>Menu > Advanced > Printer Setup > Color Printer</i> to make settings. Select <i>Menu > Advanced > Printer Setup > Color Printer > Interface > USB</i> if you used a USB connection between the scanner and the printer and <i>LAN</i> if you used a LAN connection. If you selected <i>LAN</i>, use the arrow up/down buttons to enter the printer's <i>IP address</i>. Select the <i>Printer Model</i> setup method – <i>Auto Configure, Printer List</i> or <i>Custom Setup</i> and apply the additional setting(s) attached to the <i>Printer Model</i> setup method you selected.</p>  See the section on "Printer Setup on the Scanner" for more details. |
| <p>10</p> | <p>Turn On and Prepare the Printer</p> <p>Perform actions and settings on the printer device such as check that the right paper is loaded and the printer is ON. See your printer's documentation for help.</p> |
| <p>11</p> | <p>Create a system media type for your printers media (Closed Loop Calibration)</p> <p>For the color printer only - You must create a system media type profile in order to color match paper media, printer and scanner before using the system. Identify the media type (Coated, Glossy, Semi-Glossy) you use with the printer then perform closed loop calibration (3 steps).</p>  <p>On the iJET Panel</p> <p>Select <i>Menu > Advanced > Options > Closed Loop Cal.</i></p> <p>Press <i>Enter</i> and then use the arrows up/down buttons to reach the right media type and <i>Enter</i> to select.</p> <p>On "<i>Print Sheet</i>" select <i>Enter</i>. The system will print a color patch sheet.</p> <p>Feed the sheet into the scanner</p> <p>On "<i>Scan Sheet</i>" select <i>Enter</i>. The system will scan the color patch sheet and calculate color matching values for future jobs with the current media type.</p>  See the section on "how do I... Create a New Media Type" for more details. |
| <p>12</p> | <p>Test your system</p> <p>Make a simple copy to test your system.</p>  See the section on "how do I... Make a Copy" for details. |

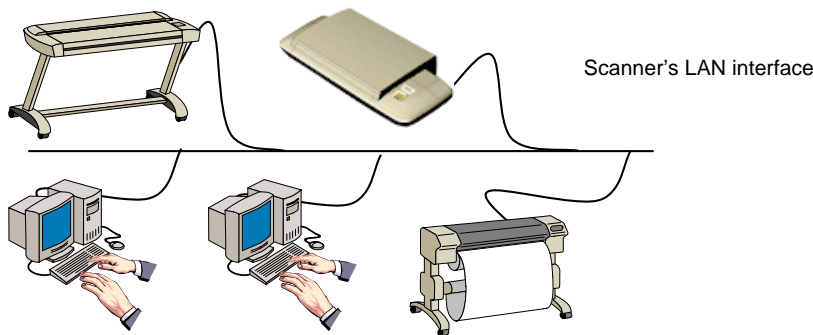
3.2 Connect the Scanner to LAN – Network Scan/Copy Device


Components: Wide format copy scanner and Local network. Peripheral devices such as PCs and printers are setup and active on the network. The scanner will be setup to recognize PCs on the network as scan-to-file targets. The scanner will also be setup to be recognized and accessed by PCs on the network (sharing). The scanner will be setup to recognize and use network printers.

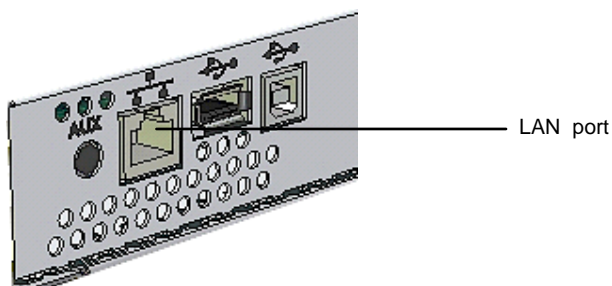
Usage: For copying and digitizing large format documents. For creating both printed and file (digitized) output. Operation is from the iJET Panel (scanner) or from network PCs. Users operating from the panel can copy to printers on the network and scan-to-file to PCs on the network. Network PCs with compatible scan or copy software installed can “share” the scanner and use it with network printers or for scan-to-file tasks.

System Requirements:

- Wide Format Copy scanner
- Compatible large format printer on the network (for copy functionality).
- LAN cable connecting the scanner to the network.
- One or more PCs on the network (for scan to file and shared scanner functionality).
- The PCs need: compatible operating system (see ws/readme.htm on WIDEsystem TOOLS CD).



| Step | Description |
|------|---|
| 1 | <p>Set up your scan station and control the smart card</p> <p>Your wide format copy scanner should be placed either on the specially designed stand-alone floor stand or on a sturdy table. For sheet feed models, make sure there is enough space behind the scanner to allow the media to run out.</p> <p>Make sure that the scanner's smart card is in place.</p> <p> See the sections “Physical Placement of the Scan Station” and “Maintenance-Locate the Smart Card” for detailed instructions for your specific scanner model.</p> |
| 2 | <p>Connection – scanner end</p> <p>Connect the LAN cable to the scanner's LAN port. See the document: “NOTE ON INTERFACE CABLES” for instructions on the specific interface cable type to use with this configuration.</p> |



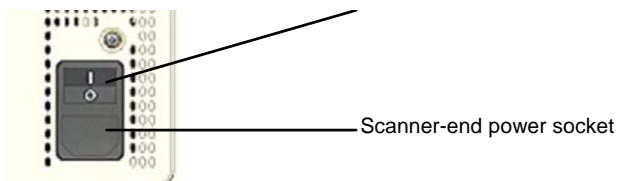
See the section "Locating the Interface Cable Connector Panel" for instructions regarding your specific scanner model.

3 Connection – network end.

Connect the other end of the LAN cable to the network or switch.

4 Connect scanner power cable

At back of the scanner, you will find the scanner-end power cable socket, just below an Outlet switch. Connect the cable to the scanner plug socket and the grounded power source. Do not yet turn on the Outlet switch on the scanner.



Caution: The scanner is equipped with a three-wire (pin) grounding type plug. If you cannot insert the plug into your outlet, contact your electrician to replace the outlet and ensure a grounded power connection. Do not try to defeat or ignore the purpose of the grounding-type plug.



5 Perform Preliminary Maintenance – Cleaning

Clean your scanner's flat surface so dirt and dust are not dragged into the scan area with the original. Clean the internal Scan area.

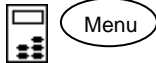



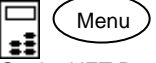

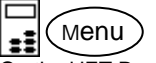

See the section "Scanner Maintenance" for instructions on accessing the scan area and cleaning for your scanner model.






6 Turn (power) on the scanner and the printer

To turn on the scanner - at back of the scanner - above the scanner-end power cable plug you will find an Outlet switch. Flip the Outlet Switch to ON. The scanner starts the init and self test sequence and you must wait until these are finished.



Power outlet and switch is found at the back of the scanner

| | |
|-----------|---|
| | <p>Perform Preliminary Maintenance – Calibration Some scanner models support calibration from the iJET panel. For other models you will have to use a PC with WIDEsystem and Scanner Maintenance software installed. To run scanner maintenance:</p>  <p>On the iJET Panel Select <i>Menu</i> > <i>Advanced</i> > <i>Options</i> > <i>Calibrate Scanner</i> > <i>Yes</i> to start calibration. If the option is not present in the iJET panel menu:</p> <p>Use a local or LAN connected PC with WIDEsystem and Scanner Maintenance installed. Left click on the WIDEsystem scanner Icon and select Launch Scanner Maintenance from the menu. Follow the instructions on your screen.</p>  See the section “Scanner Maintenance” for detailed instructions. |
| <p>7</p> | <p>Set localization Preferences</p>  <p>On the iJET Panel - Select <i>Menu</i> > <i>Advanced</i> > <i>Options</i> >... to set preferences for language, paper series and media handling (loading).</p>  See the section on options for “ <i>Personalizing and localizing the system</i> ” for details. |
| <p>8</p> | <p>Make <i>Printer Setup</i> settings on the scanner You can setup for two printer types – a B&W printer and a color printer. After you setup your printers, pressing the Color Copy button will send the output to your color printer and pressing the B&W Copy button will send the output to your B&W printer. In this configuration, both printers are on the network.</p>  <p>On the iJET Panel</p> <p>Printer set up is described for <i>Color Printer</i> below. The same rules and method applies for <i>B&W printer</i> setup. Get the network id information for the printer(s) you want to use from your network administrator. Select <i>Menu</i> > <i>Advanced</i> > <i>Printer Setup</i> > <i>Color Printer</i> to make settings. Select <i>Menu</i> > <i>Advanced</i> > <i>Printer Setup</i> > <i>Color Printer</i> > <i>Interface</i> > <i>LAN</i>. Use the arrow up/down buttons to enter the printer's IP address. Select the <i>Printer Model</i> setup method – <i>Auto Configure</i>, <i>Printer List</i> or <i>Custom Setup</i> and apply the additional setting(s) attached to the <i>Printer Model</i> setup method you selected.</p>  See the section on “Printer Setup on the Scanner” for more details. |
| <p>9</p> | <p>Make <i>Scanner Network Setup</i> settings on the scanner</p>  <p>On the iJET Panel Select the <i>Menu</i> > <i>Advanced</i> > <i>Network Setup</i>. You can use <i>DHCP</i> network setup if your network supports it. Otherwise you need to enter the network address information manually. Contact your network administrator for the correct address values. Select <i>Menu</i> > <i>Advanced</i> > <i>Network Setup</i> > <i>Share Scanner</i> > <i>Yes</i> if you want to enable PCs on the network to use the scanner.</p>  See the section on “Scanner on Network Setup Settings” for details. |
| <p>10</p> | <p>Turn On and Prepare the Printer Perform actions and settings on the printer device such as check that the right paper is loaded and the printer is ON. See your printer's documentation for help.</p> |
| <p>11</p> | <p>Create a system media type for your printers media (Closed Loop Calibration) You must create a system media type profile in order to color match paper media, printer and scanner before using the system. Identify the media type (Coated, Glossy, Semi-Glossy) you use with the printer then perform closed loop calibration (3 steps).</p> |

| | |
|----|---|
| |  <p>On the iJET Panel Select <i>Menu</i> > Advanced > Options > Closed Loop Cal. Press Enter and then use the arrows up/down buttons to reach the right media type and <i>Enter</i> to select. On "<i>Print Sheet</i>" select <i>Enter</i>. The system will print a color patch sheet. Feed the sheet into the scanner On "<i>Scan Sheet</i>" select <i>Enter</i>. The system will scan the color patch sheet and calculate color matching values for future jobs with the current media type.</p>  <p>See the section on "how do I... Create a New Media Type" for more details.</p> |
| 12 | <p>Test your system Make a simple copy to test your system.</p>  <p>See the section on "how do I... Make a Copy" for details.</p> |
| 13 | <p>Verify Scan to File functionality Scan to a network PC to test Scan to file functionality. The PC must have WIDEsystemNET installed and must be setup for network scanning.</p>  <p>See instructions on setting up a PC for scan2net in WIDEsystemNET on-line help. See more on scanning to a PC in the section "<i>How do I... Control from the iJET Panel – Scan to local or network PC</i>"</p> |
| 14 | <p>Verify Shared Scanner functionality The network PC must have WIDEsystemNET and compatible scan/copy software installed. Check that you can identify the scanner from the PC and perform a test scan.</p>  <p>See instructions on setting up a PC for scan2net in WIDEsystemNET on-line help. See more on using a shared scanner in the scan or copy application's on-line help.</p> |

3.3 Connect the Scanner to a PC - Scan/Copy workstation

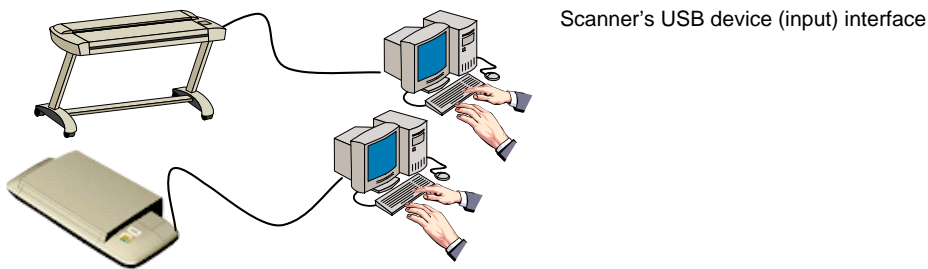
Components: Wide format copy scanner and PC. For scanning to file and saving on local PC. If this configuration is to be used for copying purposes, it must include a printer that is either connected directly to the PC (local printer) or the PC can be connected to the network and have access to network printers.

Usage: For digitizing large format documents. Used for scan-to-file (digitized) output only unless a printer is attached to the PC or PC to network printers. Operation is possible both from the iJET Panel and from the PC.



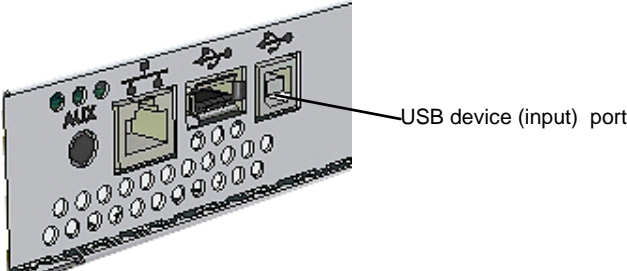



System Requirements:

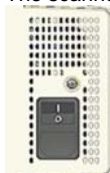

- Wide Format Copy scanner
- PC with Compatible operating system (see ws/readme.htm on WIDESystem TOOLS CD)
- USB port on the PC
- The *WIDESystem TOOLS* CD supplied with your scanner.
- Scanning software or compatible third party software.

NOTE: Scanning and Copying in this configuration would often be performed through scan and copy software installed on the PC rather than through the scanner's iJET Panel. Usage of scan and copy software is not within the scope of this operator's guide. Please refer to the software's documentation and on-line help for instructions on using the software with the scanner.
Users can scan-to-file to the PC from the iJET Panel in this configuration. See the section "How do I Scan to File?" in this guide.



| Step | Description |
|------|---|
| 1 | <p>Insert the WIDESystem TOOLS CD-ROM into your PC.</p> <p>! IMPORTANT : DO NOT YET CONNECT THE SCANNER TO POWER OR PC. <i>install WIDESystem before you connect the scanner or install any scanner software applications.</i> Your scanner drivers are automatically installed with WIDESystem and your PC will then be fully prepared to detect and setup the newly connected scanner device.</p> <p>Start up the WIDESystem TOOLS CD-ROM by inserting the CD-ROM into your PC. Normally the setup program interface will start automatically. If it does not, perform the following steps to activate it.</p> <p style="padding-left: 20px;">Click the Start button on the Taskbar and choose Run from the menu.</p> <p style="padding-left: 20px;">Type D:\setup in the Command Line Box (where D: represents the name of your CD-ROM drive).</p> <p style="padding-left: 20px;">Choose the OK button.</p> <p>! Important: Be sure to use the WIDESystem TOOLS CD-ROM that came with your scanner or a</p> |

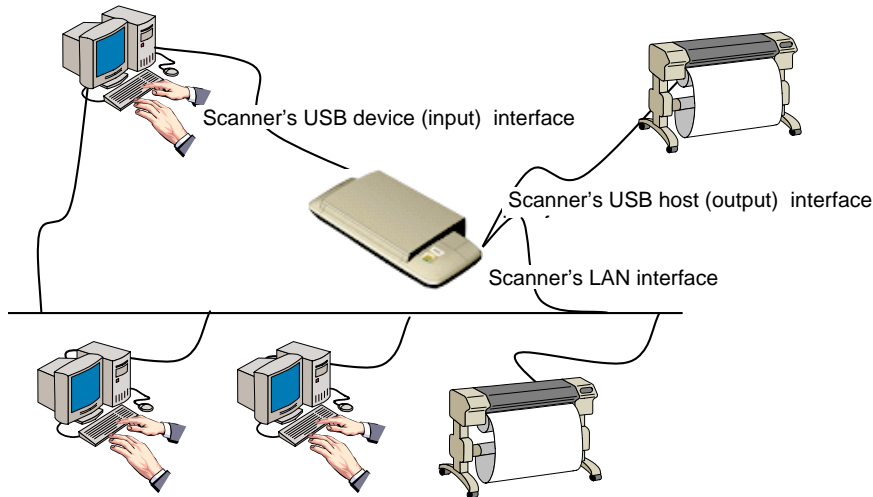
| | |
|---|--|
| | <p>newer version. Out-of-date versions of WIDEsystem software may not detect your scanner model.</p> |
| 2 | <p>Install WIDEsystem Software Click on the option <i>Install WIDEsystem Software</i> from CD main menu or run the setup.exe program directly from the WIDEsystem (ws) folder on the CD-ROM. Follow the installation instructions that appear on your screen.</p> |
| 3 | <p>Install Scanner Maintenance Software Click on the option <i>Install Scanner Maintenance Software</i> from CD's menu. Follow the instructions that appear on your screen.</p> |
| 4 | <p>Shut down (power off) the PC Your PC is now prepared and must be powered off before connection with the scanner.</p> |
| 5 | <p>Perform Preliminary Maintenance – Cleaning Clean your scanner's flat surface so dirt and dust are not dragged into the scan area with the original. Clean the internal Scan area.  See the section "Scanner Maintenance" for instructions on accessing the scan area and cleaning for your specific scanner model.</p> |
| 6 | <p>Set up your scan station and control the smart card Your wide format copy scanner should be placed either on the specially designed stand-alone floor stand or on a sturdy table. For sheet feed models, make sure there is enough space behind the scanner to allow the media to run out. Make sure that the scanner's smart card is in place.  See the sections "Physical Placement of the Scan Station" and "Maintenance-Locate the Smart Card" for detailed instructions for your specific scanner model.</p> |
| 7 | <p>Connect the interface cable – scanner end Connect the USB interface cable to the scanner's USB device (input) port (squared formed socket). See the document: "NOTE ON INTERFACE CABLES" for instructions on the specific interface cable type to use with this configuration.</p>  <p> See the section "Locating the Interface Cable Connector Panel" for instructions relating to your specific scanner model.</p> |
| | <p>Connect the interface cable – PC end Connect the other end of the USB cable to the PC's USB connection port (flat rectangle socket).</p> |
| 8 | <p>Connect scanner power cable  The scanner is equipped with a three-wire (pin) grounding type plug. If you cannot insert the plug into your outlet, contact your electrician to replace the outlet and ensure a grounded power connection. Do not try to defeat or ignore the purpose of the grounding-type plug.</p>  |

| | |
|------------------|---|
| <p>9</p> | <p>Turn on the Scanner To turn on the scanner - at back of the scanner, plug in the power cable and flip the Outlet Switch to ON. The scanner starts the init and self test sequence.</p>  <p><i>Power outlet and switch is found at the back of the scanner</i></p> |
| <p>10</p> | <p>Turn on the PC</p> <p> Make sure the PC connected to the scanner is likewise power-connected to a grounding-type power outlet with a three-wire (pin) grounding type plug.</p> |
| <p>11</p> | <p>Verify installation of new hardware Double click on the WIDEsystem scanner icon on the Windows system tray. The program should detect a Selected Scanner in the dialog.</p> |
| <p>12</p> | <p>Run preliminary Scanner Maintenance - Maintenance program Left click on the WIDEsystem scanner Icon and select Launch Scanner Maintenance from the menu. Follow the instructions on your screen.</p> |

NOTE: On Windows Compatibility - Your scanner and drivers are tested and developed to support the most current active Microsoft Windows version OS systems. Drivers and interface support in regard to specific Windows versions will follow the Microsoft Support Lifecycle Policy. The compatibility specifications can therefore change accordingly. The most current OS compatibility specifications and drivers will be available on your manufacturer's website.

3.4 Combining Configuration Types for Multiple Functionality

Although they were described separately, the three configurations: Stand alone copier, Scan/ Copy device on a network, Scan/ Copy station on local PC can be combined to provide multiple functionality. For most companies, a combined solution would be recommended to get the most out of the scanner and provide a flexible, multi-purpose device.



In the example illustrated above, we have connected both a printer and a PC directly to the scanner and both the scanner and the PC are each attached directly to the network. This means that the configuration can be used as a stand alone copier, a stand alone scan-to-file station, a device for saving scans to network PCs and a shared device that can be controlled and used by network PCs. The scanner can use both the local printer and printers on the network. Both scan-to-file and copying can be performed either through the iJET Panel or through scan/copy software.

Use the instructions for each configuration in the previous sections for setting up a combined solution. You will find that many of the steps are general and apply for all configurations so you only need to perform them once.

NOTE: Your Copy Scanner supports a single LAN connection port. This means that if you connect a printer directly through this port, you will not be able to set up a combined solution with network accessibility. You can use LAN switch boxes to work around this problem. It is advisable to use the USB host (output) port for direct printer connection if USB connectivity is supported on the printer.

Regulatory Notice: Your scanner product has been tested to comply with the EMC Standards EN55022 and FCC, Part 15. To maintain compliance, only use the interface cables supplied with the scanner.

3.5 Physical Placement of the Scanner

Please follow the guidelines below for optimal safety, scanner functionality, and scanning results.

Physical placement of the scan station:



On Scanners:

Your wide format flatbed scanner should be placed on a sturdy table. If convenient, you can place the backend of the scanner against a wall. The lid will not open all the way back and stops at an approximate 65° angle.

Physical placement of the scan station:




On Scanners:


Your wide format scanner should be placed either on the specially designed stand-alone floor stand or on a sturdy table. Make sure there is enough space behind the scanner to allow the media to run out. Thick stiff media naturally requires space that is at least as large as the media length.


Physical placement of the scan station:




Guidelines that apply for all scanners:

 Slots and openings in the cabinet at the back and bottom are provided for ventilation. This ensures reliable operation of the product and protects it from overheating. These openings must never be blocked or covered by placing the unit on a bed, sofa, rug, or other similar soft surface.

 Your scanner should never be placed near or over a radiator or heat register.

 You should not place the scanner in a built-in installation unless proper ventilation is provided.

 The scanner is equipped with a three-wire (pin) grounding type plug. This plug will fit only into a grounding-type power outlet. This is a safety feature. If you cannot insert the plug into

your outlet, contact your electrician to replace the outlet and ensure a grounded power connection. Do not try to defeat or ignore the purpose of the grounding-type plug.



! Make sure the PC connected to the scanner is likewise power-connected to a grounding-type power outlet with a three-wire (pin) grounding type plug.

! See also the Safety Instructions at the end of this operator's guide.

3.6 Locating the Interface Cable Connector-Panel

Your scanner's interface cable connectors are grouped in a cable connector panel. You will need to locate the cable connector panel in order to insert interface cables when setting up the system. You can find your scanner's cable-connector-panel as follows:



On Scanners:

The scanner has LAN, USB device (input) and USB host (output) interface connectors grouped in a cable-connector-panel. The cable-connector-panel is found at the back of the scanner.



The cable-connector-panel is found on the scanner's back.

Locate the cable-connector-panel

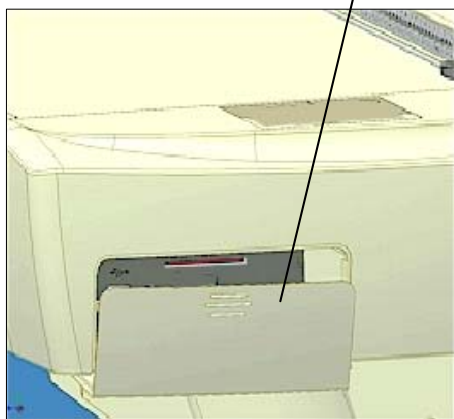


On Scanners:

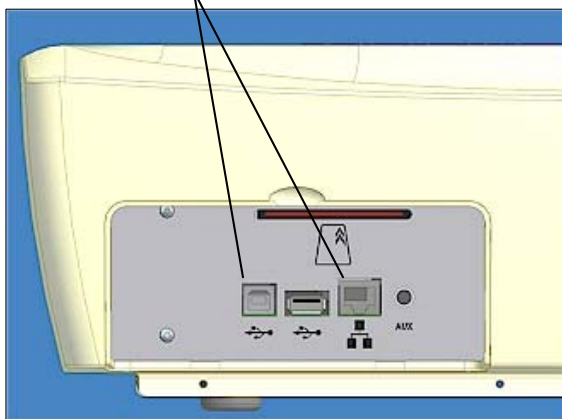
The scanner has LAN, USB device (input) and USB host (output) interface connectors grouped in a cable-connector-panel. You will find the cable-connector-panel by removing the scanner's right side cover. You feed the interface cable through the opening in the back of the scanner until it emerges in front of the cable-connector-panel.

! Be sure to reattach the cover after you connect the interface. The cover must always be closed before you turn the scanner ON.

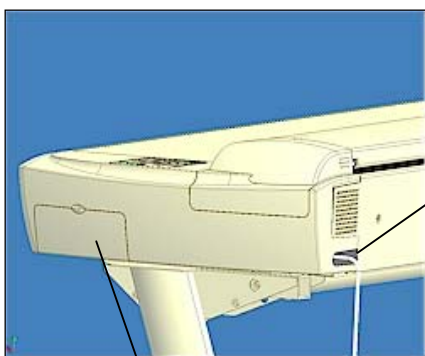
Remove the scanner's right side cover



Interface connectors (cable-connector-panel)



Feed the interface cable through the hole in the back until it emerges in interface area.



Interface area is behind the cover

3.7 Personalizing and Localizing Your System



The iJET Panel options can be configured to match your local standards regarding the language displayed in the menus, paper size series (preferred standard size systems such as “ARCH” and ISO A) and media handling (original’s loading method).

NOTE: The number of languages available for the panel is limited.

3.7.1 Setting the iJET Panel’s Display Language




On the iJET Panel

1. Select the *Menu* button. 
2. Use the arrow button up or down until the display windows shows *Advanced* and confirm with the *Enter* button .

3. Use the arrow buttons up or down   until the display shows *Options* and confirm with .




4. Use arrows down/up   until the display shows *Language*.



5. Confirm with . The “>” marker will move down to the option setting line so you can change it.

6. Your display should look like this (the actual text to the right of the “>” will show the **current setting** for the option and may be different than the one shown below).



7. Use arrows down/up   to select the language you want to use for the texts in the iJET panel’s display and confirm with .

3.7.2 Setting the Paper Series Preference









Depending on your location and business, you may usually work with a specific standard paper series. This option lets you tell the system which paper series you want displayed when you set the Size (input size) option. You can also tell the system to always display all the paper series' in the system.






On scanners:



On the iJET Panel

1. Select the *Menu* button. 
2. Use the arrow button up or down until the display windows shows *Advanced* and confirm with the *Enter* button  .
3. Use the arrow buttons up or down   until the display shows *Options* and confirm with  .
4. Use arrows down/up   until the display shows *Paper Series*.
5. Confirm with  . The ">" marker will move down to the option setting line so you can change it.
6. Your display should look like this (the actual text to the right of the ">" will show the **current setting** for the option and may be different than the one shown below).



7. Use arrows down/up   to select the paper series (...ARCH, ANSI, ISO A...) you want to use when setting the paper size and confirm with *Enter*  . You can also select *ALL* if you need to use more than one paper series.

3.7.3 Setting the Media Handling (load) Method Preference









This option lets you tell the system how you want to load originals into the scanner.











On scanners: *(not relevant on flatbed models)*

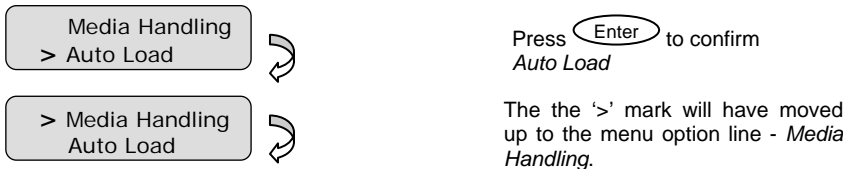


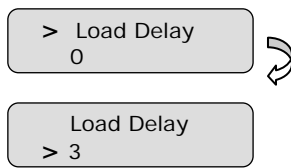
On the iJET Panel



1. Select the *Menu* button. 
2. Use the arrow button up or down until the display windows shows *Advanced* and confirm with the *Enter* button  .
3. Use the arrow buttons up or down   until the display shows *Options* and confirm with  .
4. Use arrows down/up   until the display shows *Media Handling* and confirm with  .
5. Your display should look like this (the actual text to the right of the “>” will show the **current setting** for the option and may be different than the one shown below).






6. Use arrows down/up   to select the method you want to use and confirm with  . *Auto Load* means the scanner will pull the original into the scan area as soon as you insert it into the slot. You can set a *Load Delay* factor with *Auto Load* (see next step). *Manual Load* means you insert the original and press on the panel’s feed forward button.
7. If you selected *Auto Load* and want to change the delay factor – Make sure the *Media Handling* option is marked with the “>”. If not press enter to move it up. Use arrow down  to reach the *Load Delay* option. Confirm with *Enter*  . Use the arrows   to set a *Load Delay* factor and confirm with  . These steps are illustrated below.





Use arrow down  to reach the *Load Delay* option. Press .

Use arrows   to change the *Load Delay* value and confirm with .

3.8 Printer Setup on the Scanner

In order to be operated from the iJET Panel, your copy scanner needs to recognize a printer. The setup procedure depends on whether you connect a printer through the USB host (output) port or through a LAN port (either directly or indirectly). Direct connection through the LAN port will require that you enter the local printer's IP address. If you connect to the network through the LAN port and want to use a printer on that network, you will have to enter the network printer's IP address.










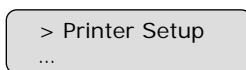
On scanners:

To apply printer setup settings:



On the iJET Panel






1. Select the *Menu* button. 
2. Use the arrow button up or down   until the display window shows *Advanced* and confirm with the *Enter* button .
3. Use the arrow buttons up or down   until the display shows *Printer Setup* and confirm with .

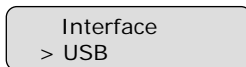


Press  to confirm *Printer setup*

4. You can set up a Color Printer and a B&W Printer (max 2 printers at a time). Press  to reach the *Color Printer* option.









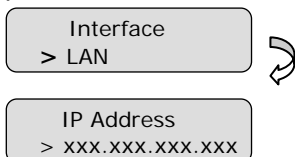
5. Press  to confirm *Color Printer* and reach the *Interface* option and  again to confirm *Interface*. Use arrows down/up   to select *USB* or *LAN*, depending how you connected your color printer and confirm your selection with .




Use arrows   to change the *Interface* setting. Press  to confirm.

- If you are using LAN interfacing, either with a printer directly connected to the scanner's LAN port or to a remote printer on the network, you will need to set the printer's IP address.



Press arrow down  to display the IP setting dialog and then . The default IP shows 4 groups with 3 zeros in each group. Use the arrows up/down   to change the first group (3 digits). Press  to move to the next 3 digit group and again the arrows to change them. Repeat this with each group until you have the right IP displayed and press *Enter*  to confirm.

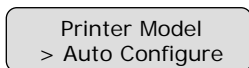





Press  to reach the IP setting dialog.

Use the arrows to change the IP values as described above.

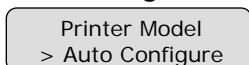
- You must now set definitions and parameters for the actual *Printer Model*. Printer Model settings can be set in 3 ways (methods): automatically, by selecting a printer model from a list of predefined printers or through making custom settings manually.

To select the *Printer Model* setup method: Press arrow down  to reach and display the *Printer Model* dialog and then  to move the ">" mark down and thus enter the *Printer Model* options.




Use the arrows up/down   to display one of the following *Printer Model* options and press  to confirm your selection:

7.1 Auto Configure



Auto Configure tells the system to retrieve the printer's parameters automatically from the printer itself. The system searches for the printer on the port as indicated by your *Interface* setting (USB or LAN-IP address) and then when it finds it, the printer's setup parameters are saved in the scanner device.




Not all printer models support automatic setup and you will need to use the *Printer List* or the *Custom Setup* options instead. The printer must support SNMP in order for its settings to be detected automatically.


 **NOTE:** the actual search and settings upload process takes place the first time you try to print and not during setup. It is therefore recommended to make a dispensable test copy just after completing the steps for setting up your scanner.

7.2 Printer List

Printer Model
> Printer List

If you select *Printer List* and confirm with enter, you will be able to select an actual printer model by its name. The model names that appear in the *Printer List* indicate printers that have been fully tested for compatibility with your copy scanner and their setup parameters are ready in the system.


Use the arrows up/down   to move through the list of printers and press  to confirm your printer model selection.

 **NOTE:** New printer models may become available in the list with new firmware upgrades.

7.3 Custom Setup




Printer Model
> Custom Setup

The *Printer Model - Custom Setup* option lets you configure a printer manually. This option gives you the freedom to use other printers than those compatible with the *Auto Configure* method and those that have been tested and are available through the *Printer List* method.

 **To Ensure the Right Settings for your Printer:** Your scanner manufacturer's support pages on the web will provide lists and tables containing recommend settings for specific printer models that should be compatible with the scanner but are not tested. Printers on the website's list are similar to tested models. Look for your printer model on the list and enter the recommended settings in the *Custom Setup* options. The website lists will be updated as new printers enter the market.



If your printer is not named on the website list, you can try to use the printer's documentation to determine the right settings. **Please note** however that unlisted printers may not be compatible with the scanner.

Here follows a short description of the parameter settings. Use the arrow button up or

down   to move through the options. Use *Enter* to activate the option's value selection. Use again the arrows to change the option values and again the *Enter* button  to confirm your setting.

| Option | Values | Description |
|-----------------------|---------------------------|--|
| <i>Command Set</i> | <i>RTL or PCL3GUI</i> | This is the printer's format language |
| <i>Ctrl. Language</i> | <i>None or HP P.J.L</i> | The control language is used internally by the system to apply some of the others settings, such as resolution, size, etcetera. |
| <i>Orientation</i> | <i>Landscape/Portrait</i> | Feeding orientation for printer. On most large format printers this will be landscape while on some of the narrower models it will be Portrait. |
| <i>Scalable</i> | <i>No/Yes</i> | 'No' means that the scanner will take care of scaling before sending data to the printer. 'Yes' means that the printer will take care of scaling. |

| | | |
|-----------------------|--------------------------------------|---|
| <i>Resolution</i> | 300,360,600,720 | This is the printer's fixed resolution |
| <i>Printer Size</i> | A0,A1,A2.... <i>paper size list</i> | The printer is defined to be of a certain max standard size - A0, A2 etcetera. |
| <i>Render Type</i> | <i>Default/No Simple/ Ctx format</i> | Scan to print data protocol. See the lists fro right selection. |
| <i>Use Inked Area</i> | No/Yes | Yes – The printer will cut the output by looking at the area that was actually printed. No – use the whole paper size to determine the place to cut. |

- Repeat steps 4 – 6 with *B&W Printer*. To reach the *B&W Printer* option from the previous step: Use the *Back* button  to move back to *Color Printer* in the menu and then arrow down  to reach the *B&W Printer* option.

3.9 Creating Media Profiles – For Color Printer Setup





You must create a *Media Profile* for each media type you use with the specific color printer. Otherwise, your color copy output colors will not necessarily match the original's colors. Optimal quality color results are only obtained if the capture device (scanner) and output device (printer) "see" colors in the same way on a given output media. A *Media Profile* is a unit that stores data that matches scanner and printer colors on a given media.

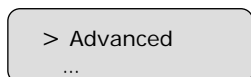
Before you start a copy job, you select a *Media Type* (*Menu* button) that corresponds with the media in your printer and the *Media Profile* you prepared. By this action you are harmonizing scanner, printer and media color factors for achieving optimal color precision in your copies.


A *Media Profile* is connected solely to a specific printer and media type so you will need to create new media profiles if any of these (printer or print-media) are changed.

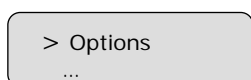




On the iJET Panel

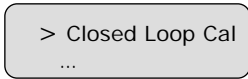
- Select the *Menu* button. 
- Use the arrow button up or down   until the display window shows *Advanced* and confirm with the *Enter* button .



- Use the arrow buttons up or down   until the display shows *Options* and confirm with .







4. *Closed Loop Cal* should be displayed as the first option. If not use the arrow down  button to reach it. Press  to confirm.

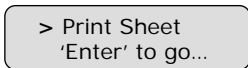


5. Your display should now look like this (the actual text on the 2. line will show the **current setting** for the option and may be different than the one shown below).




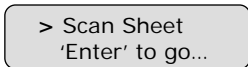
6. Press  to move the ">" mark to the current setting so you can change it. Use the arrow buttons up/down   until you reach *the media type (Coated, Semi Glossy, Glossy...)* that describes the media in your printer. Press  to confirm.

7. On "*Print Sheet*" select *Enter*. The system will print a color patch sheet.



8. Feed the sheet into the scanner

9. The display will now show "*Scan Sheet*". Select  to start. The system will scan the color patch sheet and calculate color matching values for future jobs with the current media type.



10. When you use the system for copying, you will select the option for the *Media Type* that matches the media loaded on your printer. This is done through the *Menu* button. The system will then load the corresponding *Media Profile* and use it to create optimal color output for the job.



Read more on *Media Type* selection under the section *How do I make a Copy – Other Copy Options - How do I Set the Media Type*.

3.10 Scanner on Network Setup

In order to be recognized on the network, your copy scanner needs to identify itself. Some networks support DHCP which will enable the scanner to extract its network setup information automatically from the network. On other networks, you will have to enter the network ID information manually.










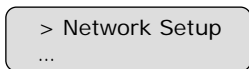
On scanners:

To apply the scanners network setup settings:



On the iJET Panel




1. Select the *Menu* button. 
2. Use the arrow button up or down   until the display window shows *Advanced* and confirm with the *Enter* button .
3. Use the arrow buttons up or down   until the display shows *Network Setup* and confirm with .

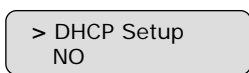



Press  to confirm *Network setup*




4. The rest depends on if your network supports DHCP or not. Follow one of the scenarios below:

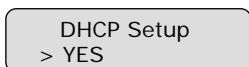
If your network supports DHCP:


1. Use the arrow button up or down   until the display window shows *DHCP Setup* and confirm with  to move the ">" marker down change the setting.



Press  to confirm DHCP setup




2. Use arrows down/up   to select *YES* and confirm with . The scanner will then get its network setup information directly from the networks DHCP server.




Change value to "YES" and confirm with 




If your network does not support DHCP:

1. Get the values **IP Address, Subnet Mask and Gateway Address** from your network administrator.


2. Use the arrow button up or down   until the display window shows *DHCP Setup* and confirm with  to move the ">" marker down change the setting.




```
> DHCP Setup
  YES
```





Press  to confirm DHCP setup

3. Use arrows down/up   to select *NO* and confirm with . The scanner will then be identified on the network with the values you enter manually in the next steps. .

```
DHCP Setup
> NO
```





Change value to "NO" and confirm with 





4. Use the arrow buttons up/down   until the iJET Panel displays *IP Address* and confirm with .

5. The default IP shows 4 groups with 3 digits in each group. Use the arrows up/down   to change the first group (3 digits). Press  to move to the next 3 digit group and again the arrows to change them. Continue with each group until you have the right IP displayed and press *Enter*  to confirm.

```
IP Address
> xxx.xxx.xxx.xxx
```

Use the arrows to change the IP values as described above.

6. Use the arrow buttons arrow buttons up/down   until the iJET Panel displays *Subnet Mask* and confirm with . *Subnet Mask* is a mask used to determine what subnet an IP address belongs to. Use the up/down arrow to change a digit's value in the same manner as described above for the IP Address. Confirm with .

7. Use the arrow buttons arrow buttons up/down   until the iJET Panel displays *Gateway Address* and confirm with . A *Gateway address* is the IP address of a network point that acts as an entrance to another network. Use the up/down arrow to change a digit's value in the same manner as described above for the IP Address. Confirm with .

3.11 Setup to Share the Scanner (Use from PCs on the LAN)

Your scanner can be setup to be used for scanning from PC stations on the network. This requires that you first have setup the scanner to be recognized on the network as described in the previous section “Scanner on Network Setup”. The following will describe how to enable your scanner to be shared.

NOTE: Using a shared scanner from a PC on the network will require scan and copy software plus drivers installed on that PC. The scan/copy software must be compatible with the scanner and shared scanner functionality. See your scan/copy software documentation for details and instructions.








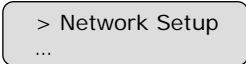




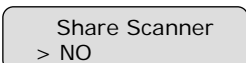




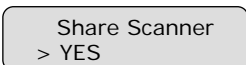



On scanners:

To enable a scanner for sharing:



On the iJET Panel

1. Select the *Menu* button. 
2. Use the arrow button up or down   until the display window shows *Advanced* and confirm with the *Enter* button  .
3. Use the arrow buttons up or down   until the display shows *Network Setup* and confirm with  .
 Press  to confirm *Network setup*
4. Use the arrow button up or down   until the display window shows *Share Scanner* and confirm with  to move the “>” marker down in order to change the setting.
 Press  to confirm Share Scanner setup and move the ‘>’ marker down to change the setting.
5. Use arrows down/up   to select *YES* and confirm with  . The scanner will then be enabled for shared scanning from PCs on the network.
 Change value to “YES” and confirm with 
6. Reboot the scanner to ensure that the setting is applied on the network.

4. Loading Originals for Copying and Scanning

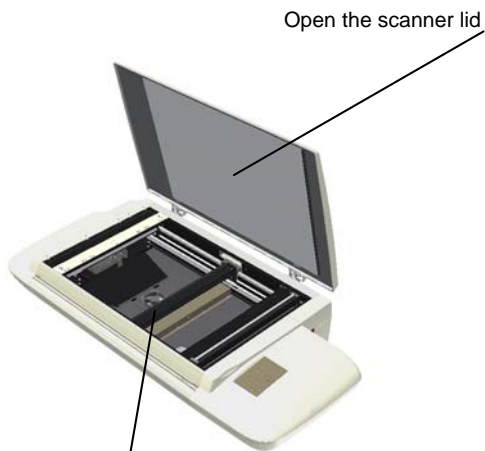
4.1 How do I Load Originals into the Scanner?



On Scanners:

To load an original into the scanner:

1. Open the lid backwards.
2. Place your document, face down, on the glass plate. Align the document edges against the alignment guide bar at the scanner's left side for a straight scan. Align the document middle with the center arrow marking on the alignment bar. You can use the standard size markings to position the original and measure its standard size.
3. Close the lid over the document.



4. Place the original face down on the glass plate.

Loading Originals



On Scanners:

You can use manual loading or automatic loading. **To select your loading method:**



On the iJET Panel

1. Select the *Menu* button. Menu
2. Use the arrow buttons right/left until the iJET Panel displays *Paper Setup* and confirm with the *OK* button.
3. Use the arrow buttons right/left until you reach *Media Handling* and confirm with *OK*

4. Use arrows down/up to select the load method – *Auto Load* or *Manual Load*. Confirm with *OK*.
5. With *Auto Load* you can select a delay factor if the document is grabbed too fast. Press arrow right to reach *Load Delay* and arrow down/up to set a delay factor between 0-1000.

How do I load the scanner with ...

manual loading - you determine when the scanner pulls in the original:

1. Align the original's center with the scanner's center arrow guide marker.
2. Push the original into the insertion slot until you feel it contact the rollers.
3. The Paper Ready LED lights green (yellow for thick media) when the original is positioned correctly for a straight scan path.
4. While holding the original in place with one hand, use the other hand to press and hold down the Paper Forward button on the scanner.
5. The original moves into the start-scan position.

automatic loading - the scanner takes the original as soon as you insert it in the paper slot. Automatic loading is reliable for most jobs and especially useful for batch scanning jobs.

1. Align the original's center with the scanner's center arrow guide marker.
2. Push the original into the insertion slot until you feel it contact the rollers.
3. The Paper Ready LED lights green (yellow for thick media) when the original is positioned correctly for a straight scan path.
4. The scanner will grab the original automatically and move it into start-scan position.

4.2 Loading and Scanning Thick Media

You may need to digitize or copy images printed or pasted on thick media such as cardboard, foamboards, gatorboards etc.



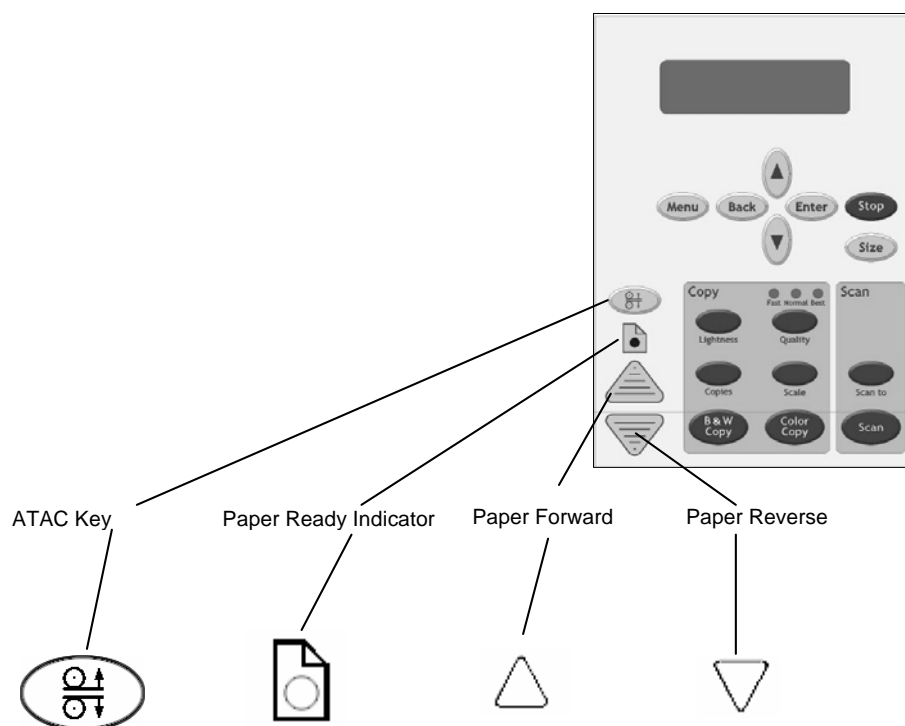
On Scanners:

Your flatbed scanner can accommodate originals up to 1,5" (38 mm,) thick while still allowing you to close the cover. For very thick originals you can leave the cover open.




On Scanners:

These scanners support Automatic Thickness Adjustment Control (ATAC). There is an ATAC key on the iJET Panel. You use the key to raise and lower the pressure-platen. You can change the insertion slot size (pressure-platen height) on your scanner from 2mm to 15 mm (up to 0.6"). Originals up to 2mm thick should be scanned with the pressure platen all the way down (normal position). Thicker originals will require you use the ATAC key to adjust for thick media.



Adjusting the insertion slot for thick media with ATAC:

1. Press the ATAC key on your iJET Panel to set the scanner in ATAC mode. 
2. The *Paper Ready Indicator* blinks yellow indicating the scanner is in ATAC mode but not yet ready, i.e., the pressure-platen is not yet positioned on the thick original.



3. Press and hold the *Paper Forward* key (arrow up) key to raise the pressure-platen until there is room to insert the thick original.



4. Insert the thick original evenly for a straight scan path.
5. Press and hold the *Paper Reverse* (arrow down) key to lower the pressure-platen until the pressure-platen stops on its own.

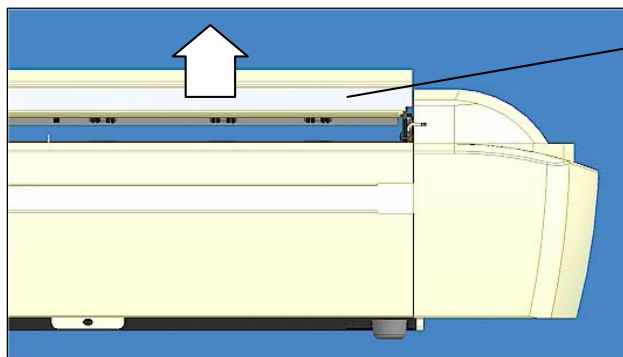


6. The *Paper Ready* indicator will turn yellow (stop blinking) when the pressure-platen is positioned correctly and is ready for thick media scanning.



7. Once the thick original is loaded, the scanner will automatically leave the ATAC mode, which means that the *Paper Forward* and *Paper Reverse* keys will return to their normal functionality for moving the original forwards and backwards.
8. It is important to help support the thick original during scanning - both at the entrance side and the exit side of the scanner.

Pressure Platen in UP position - Press and hold the *Paper Forward* key (arrow up) key to raise the pressure-platen.



9.

About Thick Media Settings and Auto Adjustment



On scanners:

Scanner's Auto-adjustment – only in the *Normal* position.

The scanner employs an automatic self-adjustment procedure (light profile, stitching etc.) that can only auto-activate when the scanner is in the *Normal* position. With prolonged scanning in extended thickness settings, you should from time to time return the scanner to its *Normal* position to allow it to self-adjust. This will ensure refreshed self-adjustment and optimal performance of your scanner. Make a habit of always setting the scanner in the *Normal* position when shutting down, so it can auto-adjust the next time you turn it ON

NOTE:The scanner runs at its optimal speed in the *Normal* position. To allow stable drive handling, scanning speed is automatically reduced when the scanner is in the extended thickness positions.

5. How do I Make a Copy?

5.1 Copy Using the iJET Panel – The Basic Steps

Once the scanner is set up and configured to the needs and standards of your business, it becomes as simple to use as a conventional office copy machine. By “setup and configured” we mean that iJET Panel menu options such as original types and paper types are determined and set.



On scanners:

To make a copy:

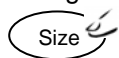
1. **Load the original into the scanner.**



See the section “How do I load originals?” for information regarding your specific scanner model.

2.  **Set the Size of your original**

The value you set here determines the scan area. Usually this would be the size of the original unless you wish only to input a portion. Press the *Size* button to activate size setting.




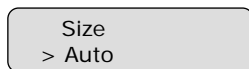
You then change the value each time you again press the *Size* button




or with the arrow up/down buttons  .

NOTE: About the Size value: *Size* is a global system variable that can be changed in 3 different ways: 1. With the *Size* button 2. With the *Menu* button > *Size* option and 3. With the *Scan-to* button > *Size* option. This means that when you change the size for a copy job, it will also apply for a scan-to-file job and vice versa until you change it again.

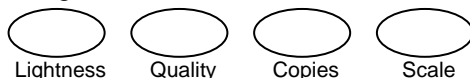
3. You can select *Auto* detection or a standard size setting. *Auto* will detect the edges of the original and set the scan area to the full original size. Press  to confirm your setting.



Change the value (Auto or a standard size) and press  to confirm.

4.  **Apply Copy Output Settings**

The iJET Panel offers quick buttons for common copy output settings. Apply one or more of these if needed. Otherwise, go to the last step where you start copying with the current settings.



Detailed Instructions on using each of these buttons plus other copy options accessed through the *Menu* button follow in this “how do I...Make a Copy?” section.

5.  Press the appropriate copy button.

- Press the B&W Copy button for B&W copy jobs.

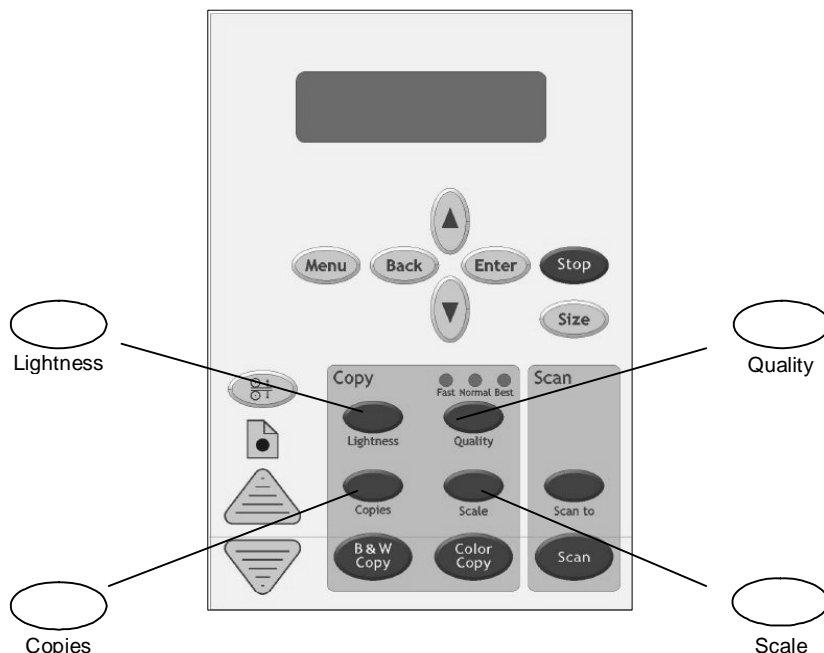
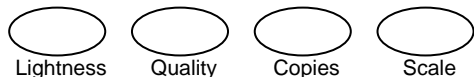
B&W
Copy

- Press the Color Copy button for color jobs.

Color
Copy

5.2 Main Copy Options - Quick buttons

This section describes the main copy options you can set with the iJET Panel's quick buttons. The buttons are:



The buttons *Lightness*, *Copies*, *Quality* and *Scale* are shortcuts into the iJET Panel Menu system to options you can reach through the *Menu* button. This means that each of the copy functions described in this section (copy image *Lightness*, copy *Quality*, number of *Copies* and *Scale* – output size in relation to the original) can be set both by pressing the corresponding *Quick* button and by entering the *Menu* and navigating to the function.

There are additional copy options in the *Menu* that are not accessible through quick buttons and can only be reached and set by way of the *Menu* button. These are Org. Types, Sharpen, Background Clean, Media Type, Mirror, reset and Advanced. These copy options will be described in the next section “Other Copy Options – Menu Button.


5.2.1 How do I... Set Copy Lightness?

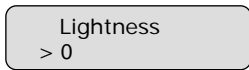
You can change the *Lightness* value to make the copy lighter or darker and compensate for dull or faded originals. The default *Lightness* value is set to zero which works well with most documents. Values +1 to +6 will make the copy lighter in relation to the original and values -1 to -3 will make the copy darker in relation to the original.

To set the copy *Lightness* value:





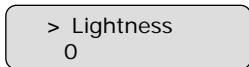
On the iJET Panel –


1. **Quick** - Press the *Lightness* button.  The iJET Panel display will open the *Lightness* option with the ">" marker on the value level indicating you can immediately change the *Lightness* option's value. From here you can skip steps 2 and 3 and go to step 4 to change the value.

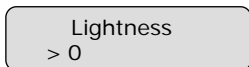


2. **Menu** – Press the  button to enter the main Menu.

Use the arrow up/down buttons   to move through the Menu options until the display shows *Lightness*.

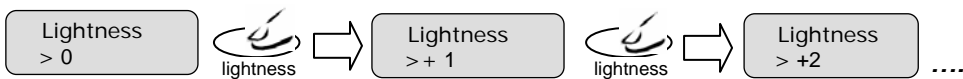




3. Press  to move the ">" marker down to indicate you want to change the *Lightness* value.




The ">" marker is down to the value level so you can change the value.

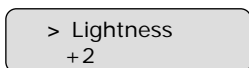
4. There are two ways to change the value:
5. **Repeated presses to the *Lightness* button** will change the *Lightness* value forward in single steps from -3 to +6. The value list wraps around meaning that you step from +6 to -3 when you continue to press the button.



6. **Or...press the arrow up/down buttons**   to change the *Lightness* value. With these you can step both forward and backward in the value list.

7. Select a positive (+) value from the list to make the copy lighter. Select a negative (-) value from the list to make the copy darker.

8. Press the  button to accept the selected value. The ">" marker will move up to the Menu level indicating that the value is set and you can step on through the menu options if needed. The new *Lightness* value will be applied every time you press the B&W Copy or Color Copy button until you repeat the steps above to change it.



The ">" marker is on the Menu level. You can continue navigating the menu options with the arrow up/down buttons.


5.2.2 How do I... Set a *Scale* factor? – Output size

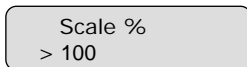
In the beginning of this section (*How to... make a copy*) we described how to set the input size with the *Size* button. You can enlarge or reduce this size in your output copy through the *Scale* option. The *Scale* value is defined as a percent (factor) of the original. A scaling factor of 100% means that the copy inherits the original's size, under 100% means it is reduced and over 100% means it is enlarged. The scaling factor can be selected from a list of predefined factors and if needed, these can be fine tuned to create your own factors.

To set a *Scale* factor:





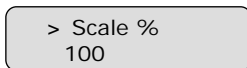
On the iJET Panel –


1. **Quick** - Press the *Scale* button.  The iJET Panel display will open the *Scale* option with the ">" marker on the value level indicating you can immediately change the *Scale* option's value. From here you can skip steps 2 and 3 and go to step 4 to change the value.

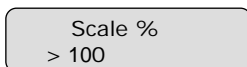


2. **Menu** – Press the  button to enter the main Menu.

Use the arrow up/down buttons   to move through the Menu options until the display shows *Scale %*.

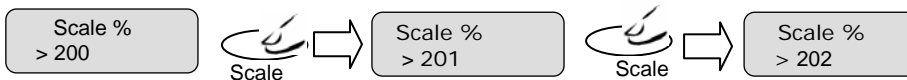




3. Press  to move the ">" marker down to indicate you want to change the *Scale* factor value.

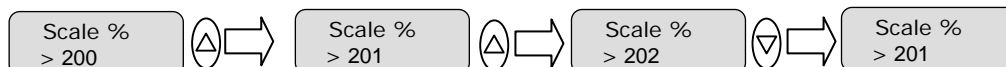


The ">" marker is down to the value level so you can change the value.

4. There are two ways to change the value:
5. **Repeated presses to the *Scale* button** will change the *Scale* factor value forward though a list of predefined *Scale* factor values. The value list wraps around meaning that you step from 800 to 25 when you continue to press the button.

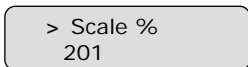


6. **Or...press the arrow up/down buttons**   to change the *Scale* factor value in single value steps. You can use this to fine tune one of the predefined values you reached by pressing the *Scale* button as described above.



7. Select a value larger than 100 to enlarge the image and smaller than 100 % to reduce the image.

- Press the **Enter** button to accept the selected value. The ">" marker will move up to the Menu level indicating that the value is set and you can step on through the menu options if needed. The new *Scale* value will be applied every time you press the B&W Copy or Color Copy button until you repeat the steps above to change it.

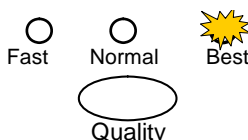


The ">" marker is on the Menu level. You can continue navigating the menu options with the arrow up/down buttons.

5.2.3 How do I...Set Copy Quality?

You can determine the output quality. The best quality will take the longest to output and use the highest amount of ink on inkjets. You may want to use the *Fast* quality setting for test copies. You can set *Quality* to one of its three options: *Fast*, *Normal*, *Best*.


You can see which of the quality settings is active by the LEDs above the *Quality* button. The active setting will be the only one that is lighted. In the example below the *Best* setting is active. You can press the *Quality* button until the LED for the *Quality* setting you want to use lights up.

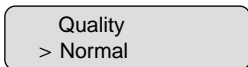


To set the copy *Quality* value:





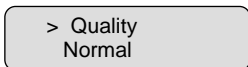
On the iJET Panel –

- Quick** - Press the *Quality* button.  The iJET Panel display will open the *Quality* option with the ">" marker on the value level indicating you can immediately change the *Quality* option's value. From here you can skip steps 2 and 3 and go to step 4 to change the value.

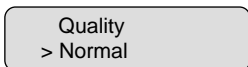


- Menu** – Press the **Menu** button to enter the main Menu.

Use the arrow up/down buttons   to move through the Menu options until the display shows *Quality*.

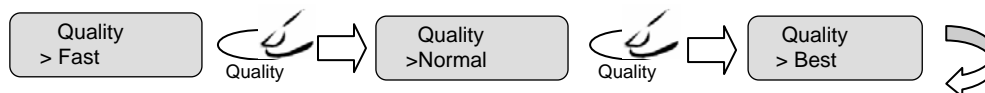


- Press **Enter** to move the ">" marker down to indicate you want to change the *Quality* value.

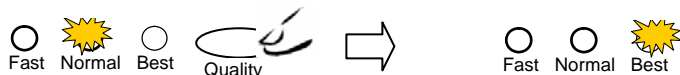


The ">" marker is down to the value level so you can change the value.


- There are two ways to change the value:
- Repeated presses to the *Quality* button** will change the *Quality* value forward through *Fast*, *Normal*, *Best*. The list wraps around meaning that you step from *Best* to *Fast* when you continue to press the button.

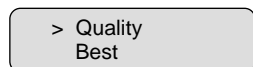


The LEDs above the *Quality* button will show the active setting.



6. Or...press the arrow up/down buttons  to change the *Lightness* value. With these you can step both forward and backward in the *Fast, Normal, Best* quality list.

7. Press the  button to accept the selected value. The ">" marker will move up to the Menu level indicating that the value is set and you can step on through the menu options if needed. The new *Quality* value will be applied every time you press the B&W Copy or Color Copy button until you repeat the steps above to change it.



The ">" marker is on the Menu level. You can continue navigating the menu options with the arrow up/down buttons.

5.2.4 How do I... Set number of Copies?

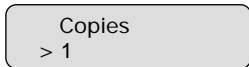
You can tell the system to make multiple copies of the original in the scanner. You can set the system to output between 1 and 50 copies. The default value is 1.

To set the copy *Copies* value:



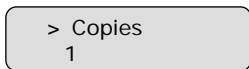
On the iJET Panel –

1. **Quick Button Setting** - Press the *Copies* button The iJET Panel display will open the *Copies* option with the ">" marker on the value level indicating you can immediately change the *Copies* option's value. From here you can skip steps 2 and 3 and go to step 4 to change the value.

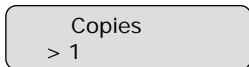


2. **Through the Menu** – Press the button to enter the main Menu.

Use the arrow up/down buttons to move through the Menu options until the display shows *Copies*.



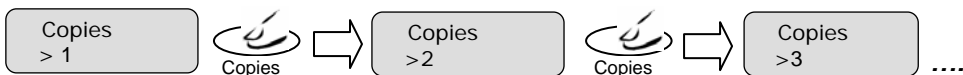
3. Press to move the ">" marker down to indicate you want to change the *Copies* value.



The ">" marker is down to the value level so you can change the value.

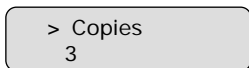
4. There are two ways to change the value:

5. **Repeated presses to the *Copies* button** will change the *Copies* value forward in single steps from 1 to 50..




6. **Or...press the arrow up/down buttons** to change the *Copies* value. With these you can increase and decrease the value.

7. Press the button to accept the selected value. The ">" marker will move up to the Menu level indicating that the value is set and you can step on through the menu options if needed. The new *Copies* value will be applied every time you press the B&W Copy or Color Copy button until you repeat the steps above to change it.



The ">" marker is on the Menu level. You can continue navigating the menu options with the arrow up/down buttons.

5.3 Other Copy Options – Menu Button

As described in the previous sections, the copy quick buttons *Lightness*, *Scale*, *Quality* and *Copies* are shortcuts into the options accessible through the Menu button . In this section we will describe other options in the same *Menu*. These options are not accessible through quick buttons and can only be reached through the *Menu* button. The option features described here are more general than those behind the four quick buttons and they will therefore not be needed as often.

The Menu button options described in the following subsections are:

- Original Type Color and Original Type B&W
- Sharpen
- Background Cleanup
- Media Type
- Mirror
- Reset
- Advanced...

5.3.1 How do I... Set Original Type Color?

The original type setting – *Org. Type-Color* is your central input parameter for color copying and relates to controlling image capture with color originals. The *Org. Type-Color* setting tells the system to use specific internal image enhancement processes that are optimal for the color original in question. For example, selecting the “*CAD/Map*” option will tell the scanner to optimize for high detail. The option you choose will be applied by the system when you press the *Color Copy* button.



The available options for *Org. Type-Color* are described below. Note that for each original type there is an “Ink” version that contains special parameters for originals that were created on inkjet printers.



| Org. Type Color | |
|---------------------|---|
| Photo | For reproducing photographs and posters |
| Photo Ink | For reproducing photographs and posters and the original to be copied has been created (printed) with an inkjet printer. |
| Brochure | For documents containing both photos and text. |
| Brochure Ink | For documents containing both photos and text and the original to be copied has been created (printed) with an inkjet printer. |
| CAD/Map | Suitable for color CAD drawings, maps and graphics with a high level of detail. |
| CAD/Map Ink | Suitable for color CAD drawings, maps and graphics with a high level of detail and the original to be copied has been created (printed) with an inkjet printer. |

To set the copy *Original Type for Color*:



On the iJET Panel –

1. Press the **Menu** button to enter the main Menu.
2. The *Org. Type-Color* option should be the first option to appear.



If it is not, use the arrow up/down buttons   to move through the Menu options until the display shows *Org. Type-Color* as shown below.

> Org. Type-Color
Photo

3. Press **Enter** to move the “>” marker down to indicate you want to change the *Org. Type-Color* value.

Org. Type-Color
> Photo

The “>” marker is down to the value level so you can change the value.

4. Press the arrow up/down buttons   to change the *Org. Type-Color* value that matches the original and copy job. Choose one of the “(Ink)” original types if your original was created on an ink jet printer. The display shown below is set for a brochure (document with photos and text) that was printed on an ink-jet printer.

Org. Type-Color
> Brochure (Ink)

5. Press the **Enter** button to accept the selected value. The “>” marker will move up to the *Menu* level indicating that the value is set and you can step on through the menu options if needed. The new *Org. Type-Color* value will be applied every time you press the *Color Copy* button until you repeat the steps above to change it.

> Org. Type-Color
Brochure (Ink)

The “>” marker is on the Menu level. You can continue navigating the menu options with the arrow up/down buttons.

5.3.2 How do I... Set Original Type B&W?

The original type setting – *Org. Type-BW* is your central input parameter for B&W or graytone copying and relates to controlling image capture. The *Org. Type-B&W* setting tells the system to use specific internal image enhancement processes that are optimal for the original in question. For example, selecting the “*Blueprint*” option will tell the scanner to optimize for cleaning up background noise and enhancing image quality. The option you choose will be applied by the system when you press the *B&W Copy* button.



The available options for *Org. Type-B&W* are described below.

| Org. Type -BW | |
|------------------|---|
| Photo | Photo is suitable for photographic images that contain many shades of gray. |
| Blueprint | Suitable for Blueprint and other originals with heavily distorted foregrounds and backgrounds. The shades that create image noise are close to the shades that represent the image's data and the two are hard to differentiate. |
| Sepia | Suitable for Sepia and other originals with heavily distorted foregrounds and backgrounds where the shades that create image noise are close to the shades that represent the image's data and the two are hard to differentiate. |
| Line | For copying clean and clear line drawings and text. Takes advantage of B&W thresholding |
| CAD | Suitable for black and white CAD drawings and graphics with a high level of detail. |

To set the *Original Type for B&W copying*:



On the iJET Panel –

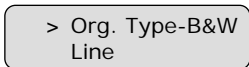
- Press the **Menu** button to enter the main Menu.
- Use the arrow up/down buttons to move through the Menu options until the display shows *Org. Type-B&W* as shown below.

> Org. Type-B&W
 Photo
- Press **Enter** to move the “>” marker down to indicate you want to change the *Org. Type-B&W* value.

Org. Type-B&W
 > Photo

The “>” marker is down to the value level so you can change the value.
- Press the arrow up/down buttons to change the *Org. Type-B&W* value that matches the original and copy job. The display shown below is set for *Line* originals (documents with line drawings and text).

Org. Type-B&W
 > Line
- Press the **Enter** button to accept the selected value. The “>” marker will move up to the *Menu* level indicating that the value is set and you can step on through the menu options if needed. The new *Org. Type-B&W* value will be applied every time you press the *B&W Copy* button until you repeat the steps above to change it.



The “>” marker is on the Menu level. You can continue navigating the menu options with the arrow up/down buttons.

5.3.3 How do I... apply the *Sharpen* filter?



You can give your copy sharper lines with the *Sharpen* option. The *Sharpen* filter identifies edges in the image and intensifies them. You can use the *Sharpen* option with both Color Copying and B&W Copying and with all original types. When set to *ON*, the option will apply the *Sharpen* filter when you press either the *Color Copy* or *B&W Copy* button.

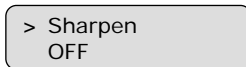


To apply the Sharpen filter

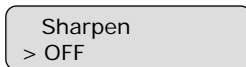


On the iJET Panel –



1. Press the **Menu** button to enter the main Menu.
2. Use the arrow up/down buttons   to move through the Menu options until the display shows *Sharpen* as shown below.

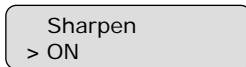


3. Press **Enter** to move the ">" marker down to indicate you want to change the *Sharpen* setting.

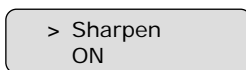


The ">" marker is down to the value level so you can change the setting.

4. Press the arrow up  or arrow down button  to change the *Sharpen* setting



5. Press the **Enter** button to accept the selected setting. The ">" marker will move up to the *Menu* level indicating that the value is set and you can step on through the menu options if needed. The new *Sharpen* setting will be applied every time you press the *Color Copy* or the *B&W Copy* button until you repeat the steps above to change it.



The ">" marker is on the Menu level. You can continue navigating the menu options with the arrow up/down buttons.

5.3.4 How do I... apply the *Background (Backg.) Clean* filter?

Background clean is used if you have an original with a background that is not as completely white as you would like it. If you want the background to appear pure white in the copy, then you can increase the background clean value. Background clean should be used with caution, as it can also affect light colors that you will not consider as part of the background.

The Background clean setting is a "cutoff" point. Pixels with a lightness under the setting's value are affected. The higher the Backg. Clean value, the larger the range of pixels that will be turned to white. You can define cutting points from 0 to 12. The default value is zero (no effect).

Example:

You have copied an original and want to improve it through bringing out the text by making the background whiter. You can adjust the background clean value upwards from its default of zero (to 12, for example) and thus make the pixels at high lightness levels go to white.



The option's setting will be applied when you press either the *Color Copy* or *B&W Copy* button.



To apply the *Backg. Clean* filter





On the iJET Panel –

1. Press the **Menu** button to enter the main Menu.
2. Use the arrow up/down buttons   to move through the Menu options until the display shows *Backg. Clean* as shown below.

> Backg. Clean
0
3. Press **Enter** to move the ">" marker down to indicate you want to change the *Backg. Clean* setting.

Backg. Clean
> 0

The ">" marker is down to the value level so you can change the setting.
4. Press the arrow up  or arrow down button  to change the *Backg. Clean* value. The higher the value, the larger the number of shades that will be converted to white in the copy.

Backg. Clean
> 10
5. Press the **Enter** button to accept the selected setting. The ">" marker will move up to the *Menu* level indicating that the value is set and you can step on through the menu options if needed. The new *Backg. Clean* setting will be applied every time you press the *Color Copy* or the *B&W Copy* button until you repeat the steps above to change it.

> Backg. Clean
10

The ">" marker is on the Menu level. You can continue navigating the menu options with the arrow up/down buttons.

5.3.5 How do I... Set the Media Type?

When making color copies, it is important to tell the system what kind of paper you have in the printer. Already during scanning, your system will optimize processing for optimal color matching in relation to the media type the image will be printed on. Processing for glossy paper is different than processing for coated paper. Your Media Type setting is not used with B&W Copying.

We described how to create *Media Profiles* in the sections on *Configuration and Setup - Media Profiles - Color Printer Setup*. A *Media Profiles* you created during setup will be applied when you set the corresponding *Media type*.

NOTE: If your system does not already have a *Media Profile* for the media in your printer, then you must create a new *Media Profile*.

Instructions on creating new *Media Profiles* are described in the section on *Media Profiles - Color Printer Setup*. For convenience, we have repeated these instructions below at end of this section - *How do I... Set the Media Type?*



Your Media Type setting is applied when you press the *Color Copy* button.



To set a *Media Type*:





On the iJET Panel –

1. Press the **Menu** button to enter the main Menu.
2. Use the arrow up/down buttons   to move through the Menu options until the display shows *Media Type* as shown below.

> Media Type
Coated
3. Press **Enter** to move the ">" marker down to indicate you want to change the *Media Type* setting.

Media Type
> Coated

The ">" marker is down to the value level so you can change the setting.
4. Press the arrow up  or arrow down button  to change the *Media Type* setting.

Media Type
> Semi Glossy
5. Press the **Enter** button to accept the selected setting. The ">" marker will move up to the *Menu* level indicating that the value is set and you can step on through the menu options if needed. The new *Media Type* setting will be applied every time you press the *Color Copy* button until you repeat the steps above to change it.

> Media Type
Semi Glossy

The ">" marker is on the Menu level. You can continue navigating the menu options with the arrow up/down buttons.





To Create a New Media Profile




(The instructions below are repeated from the section – “Creating Media Profiles - Color Printer Setup):



If your system does not already have a *Media Profile* for the *Media Type* that matches the media in your printer, then you must create a new *Media Profile*.

A *Media Profile* is connected solely to a specific printer and media type so you will need to create new media profiles if all of these (printer or media) are changed.

**On the iJET Panel**





1. Select the *Menu* button. 
2. Use the arrow button up or down   until the display window shows *Advanced* and confirm with the *Enter* button .

> Advanced
...
3. Use the arrow buttons up or down   until the display shows *Options* and confirm with .

> Options
...
4. *Closed Loop Cal* should be displayed as the first option. If not use the arrow down  button to reach it. Press  to confirm.

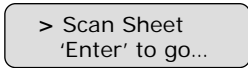
> Closed Loop Cal
...
5. Your display should now look like this (the actual text on the 2. line will show the **current setting** for the option and may be different than the one shown below).

> Media Profile
Coated

Menu option item *Media Profile*
Current setting for option item
6. Press  to move the “>” mark to the current setting so you can change it. Use the arrow buttons up/down   until you reach *the media type (Coated, Semi Glossy, Glossy...)* that describes the media in your printer. Press  to confirm.
7. On “*Print Sheet*” select *Enter*. The system will print a color patch sheet.

> Print Sheet
'Enter' to go...
8. Feed the sheet into the scanner

- The display will now show “*Scan Sheet*”. Select **Enter** to start. The system will scan the color patch sheet and calculate color matching values for future jobs with the current media type.



- When you use the system for copying, you will select the option for the *Media Type* that matches the media loaded on your printer. This is done through the *Menu* button. The system will then load the corresponding *Media Profile* and use it to create optimal color output for the job.

5.3.6 How do I... *Mirror the Image*?

You can mirror the image during capture.

The option’s setting will be applied when you press either the *Color Copy* or *B&W Copy* button.

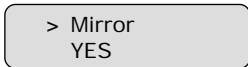


To *Mirror* the image:



On the iJET Panel –

- Press the **Menu** button to enter the main Menu.
 - Use the arrow up/down buttons to move through the Menu options until the display shows *Mirror* as shown below.
-
- Press **Enter** to move the “>” marker down to indicate you want to change the *Mirror* option setting.
-
- The “>” marker is down to the value level so you can change the setting.
- Press the arrow up or arrow down button to change the *Mirror* option value to YES or to NO. YES will mirror the original image in your copy and NO will leave it as it is.
-
- Press the **Enter** button to accept the selected setting. The “>” marker will move up to the *Menu* level indicating that the value is set and you can step on through the menu options if needed. The new *Mirror* setting will be applied every time you press the *Color Copy* or the *B&W Copy* button until you repeat the steps above to change it.



The “>” marker is on the Menu level. You can continue navigating the menu options with the arrow up/down buttons.



5.3.7 How do I... Reset Copy defaults?

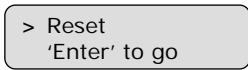
The Copy default values that came with your system are those that will work well with the most common copy jobs. The Copy default values are those accessed from the *Menu* button's top level - Lightness, Sharpen, Scale and etcetera. The lower level options accessed through the *Menu - Advanced* options, such as network setup and printer setup are not changed by the *Reset* option. The *Reset* option is useful if you have made a number of special settings for a copy job and want to restore all copy settings at once and thus reset the system for yourself or for other users.

To *Reset* the system copy defaults:

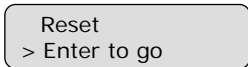


On the iJET Panel –

1. Press the **Menu** button to enter the main Menu.
2. Use the arrow up/down buttons   to move through the Menu options until the display shows *Reset* as shown below.

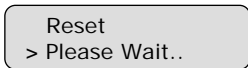


3. Press **Enter** to move the ">" marker down to indicate you want to activate the *Reset* option.

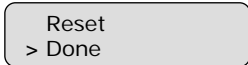


The ">" marker is down to the value level so you can change the setting.

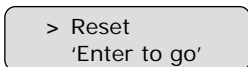
4. Press **Enter** to activate the option. The system will start restoring the copy defaults.



5. When finished, the system will display 'Done'.



6. The iJET Panel display will automatically return the ">" marker back up to the *Menu* level so you can step on through the menu options if needed.



The ">" marker is on the Menu level. You can continue navigating the menu options with the arrow up/down buttons.

The table below shows which copy settings are affected **when you select the Restore option**:

| Copy settings that return to their default value | Copy settings that remain at the last used value |
|--|--|
| Lightness | Org. Type Color |
| Copies | Org. Type BW |
| Scale | Media Type |
| Quality | |
| Size | |
| Mirror | |
| Sharpen | |
| Backg. clean. | |

5.3.8 The *Advanced* option

The *Advanced* option leads to submenus containing options related to the scanner device and not to actual copy or scan settings. Most of the *Advanced* options are for system administrators who are configuring the system to match the company's business.

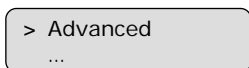
The options in the *Advanced* submenus are described in the sections on *Scanner Configuration and Setup* and the sections on *Scanner Maintenance*.

To reach the *Advanced* options:

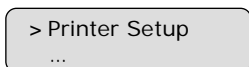


On the iJET Panel –

1. Press the **Menu** button to enter the main Menu.
2. Use the arrow up/down buttons to move through the Menu options until the display shows *Advanced* as shown below.



3. Press **Enter** to reach the first *Advanced* menu option *Printer Setup*.



4. Use the arrow up/down buttons to move through the *Advanced* submenu options.
5. Press **Enter** to enter an option. Some options will require one or more additional presses to the **Enter** button to reach underlying options and settings as shown in the example below in which the system administrator wants to change the color printer's interface type.



5.4 Using Copy Software with the scanner (local or network PC)

Your scanner can also be used with compatible copy software from a locally connected or network PC. If the scanner is connected to the LAN, network PCs will be able to “share” the scanner and control it with compatible copy software and use it with network printers. Naturally, compatible copy software can also be applied in a stand alone local PC/printer configuration.

The “Scan/Copy station on Local PC” configuration was described in the section on “Setup and Configuration”. Copying or scanning to file with this configuration can take place through **software installed on the PC**. The software would control the scanner and all settings and operation would take place from the PC.

If the scanner is connected and setup with network identification on the LAN, PCs on the LAN can recognize and use the scanner (share) if compatible scan or copy software is installed on the PC. The PCs must also have WIDEsystemNET installed.

Please refer to the scan/copy software documentation and on-line help for the most up-to-date instructions on using the specific software application with the scanner.

Be sure to view the on-line help for WIDEsystemNET for information on scanner sharing and scanning to a designated folder (to a network PC) on the LAN.



Please refer to this Operator's Guide section on *Scanner On Network Setup Settings* for details on enabling your scanner to be recognized on the LAN and shared by network PCs.

6. How do I Scan to File?

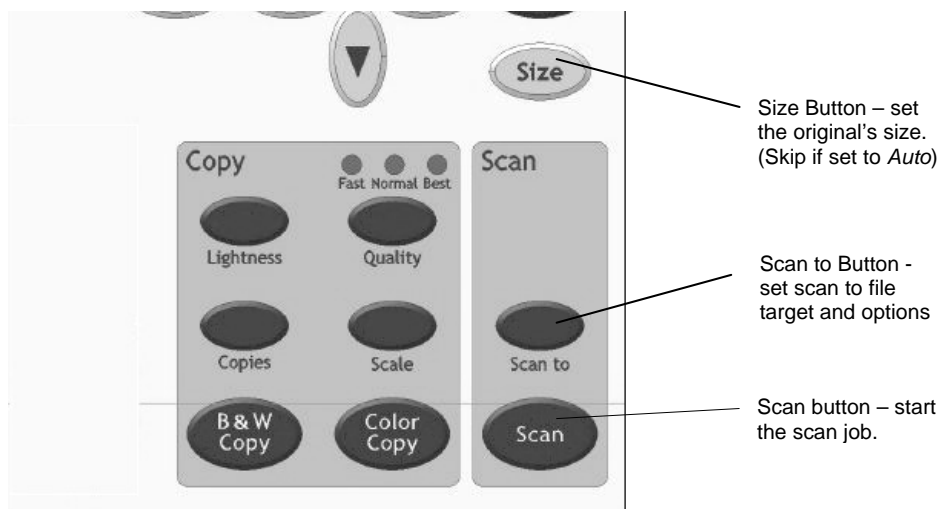
Scan-to-file means that you save the image in a file format on a PC's hard disk rather than outputting directly to a printer (copy). Scans cannot be saved in the scanner itself. In order to scan and save the image in a file, your system must recognize a PC. Therefore, the configuration must include a PC, either directly through USB or else through the network. The PC must have WIDEsystemNET installed. Your system can scan to file if:

1. Your scanner is connected to the network through the LAN interface and *Scan2Net Designated Folder* functionality has been configured in WIDEsystemNET on each PC so that a special scan input folder is defined on the PC and the PC will be recognized by the scanner.
2. Your scanner is connected to a local PC through USB and *Scan2Net Designated Folder* functionality has been configured in WIDEsystemNET on that PC so that a special scan input folder is defined on the PC and the PC will be recognized by the scanner.
3. Your scanner is connected to the network through the LAN interface. The scanner has been enabled for access from the PC's on the LAN by setting the scanner's *Share* option to *YES* (see section: *Setup to Share the Scanner*). The PC's on the LAN are setup to recognize the shared scanner with WIDEsystemNET software and compatible scan/copy software.


***NOTE:** WIDEsystemNET software is on the WIDEsystem TOOLS CD that came with your scanner. See the CD's included documentation and your WIDEsystemNET software on-line help for instructions on installing and configuring a PC for *Designated Folder* functionality.

This section will focus on the first and second scan-to-file scenario in which you use the iJET Panel to select a scan target and scan to a designated folder.

You will use the iJET Panel's *Scan to* button to make all your settings for a scan to file job and the *Scan* button to start it. You will use the *Size* button to enter the original's size before pressing the *Scan* button (unless scanning the whole original with *Auto* size). Details follow in the next section.



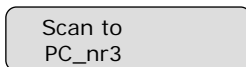
6.1 Scan to Local or Network PC with the iJET Panel

1. Load your original.  See the section “How do I load originals?” for information regarding your specific scanner model.

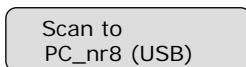
2.  **On the iJET Panel** –Select the **Scan to** button. The first of the recognized scan targets (PCs) will be displayed.



3. Repeated pressing on the *Scan to* button will step through the list of recognized scan targets (PCs). Stop when the right scan target is displayed. A target name that includes “(USB)” will be a PC connected directly to the scanner. “No Clients” will be displayed if no PCs with *Designated Folder* functionality were detected locally or on the network. See your WIDEsystemNET help for instructions on setting a PC for *Designated Folder* functionality with a scanner connected directly to the LAN.



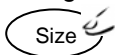
Network PC named “PC_nr3” set as scan target






Local PC set as scan target

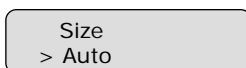
4.  **Set the Size of your original**


The value you set here determines the scan area. Usually this would be the size of the original unless you wish only to input a portion. Press the *Size* button to activate size setting.




You then change the value each time you again press the *Size* button or with the

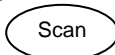
arrow up/down buttons  . You can select *Auto* detection or a standard size setting. *Auto* will detect the edges of the original and always set the scan area to the full original size every time. You will probably use *Auto* for most jobs. You can always crop the image in an image editor on the PC after scanning-to-file. Press  to confirm your setting.



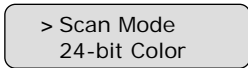
Change the value (Auto or a standard size) and press  to confirm.

NOTE: About the Size value: *Size* is a global system variable that can be changed in 3 different ways: 1. With the *Size* button 2. With the *Menu* button > *Size* option and 3. With the *Scan to* button > *Size* option. This means that when you change the size for a copy job, it will also apply for a scan-to-file job and vice versa until you change it again.



5.  **Make your scan-to-file settings.** The latest (or “default” if none were made) scan to file settings are always attached to the scan target, so each available scan target will have stored its own settings. If you know your target’s settings to be correct for your current job, press the *Scan* button to send the scan. Otherwise, continue to the next step.

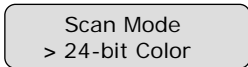


6. **If you want to change the scan-to-file settings** - Confirm the scan target with **Enter** to move into the **Scan-to-File Menu**. The first Scan-to-File Menu option *Scan Mode* will be shown in the display.



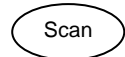
Entry into the Scan-to-File Menu

7. Press the arrow up/down buttons   to move through the options in the Scan-to-File Menu. Press **Enter** to move the ">" marker down so you can change the current option's value.



When you press **Enter**, the ">" marker moves down indicating you can change the option value.

8. The Scan-to-File Menu will take you through different options. Each option must be confirmed by pressing the Enter **Enter** button. **The Scan-to-File Menu and its options are described in the next section.**
9. Your new scan-to-file settings will be tied to and stored with the target PC name you selected in step 3 and they will be recalled next time you select the same target PC from the iJET Panel.
10. When you have finished making your settings, press the *Scan* button to send your scan to the target PC.




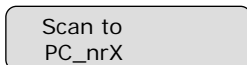
6.2 Scan-to-File Menu Options – iJET Panel

6.2.1 Enter the iJET Panel Scan-to-File Menu




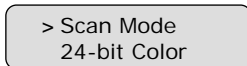
On the iJET Panel –

1. Select the *Scan to* button  Scan to
2. Select the scan target.



Network PC named "PC_nrX" set as scan target

3. Confirm the scan target with  to start the Scan-to-File menu.
4. The first Scan-to-File Menu option *Scan Mode* will be shown in the display.



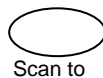
Entry into the Scan-to-File Menu

6.2.2 Set the Scan Mode

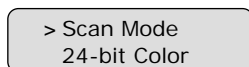


On the iJET Panel –

1. If you are not already in the Scan-to-File menu, start/enter the menu with the Scan to button as described in the beginning of this section.

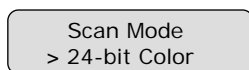


2. The first Scan-to-File Menu option is the *Scan Mode*. Your display should look as follows: will be shown in the display.





Entry into the Scan-to-File Menu

3. Press **Enter** to move the “>” marker down so you can change the current option’s value if needed.

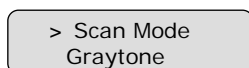


When you press **Enter**, the “>” marker moves down indicating you can change the option value.

4. Press the arrow up/down buttons   to move through the values for the *Scan Mode* option. The following *Scan Modes* are available:

| Scan Mode | What it Does / Usage | Adjustments |
|-------------------|--|-------------|
| B&W Threshold | This mode uses thresholds to determine whether a pixel is black or white. Use this mode for drawings and line art. You can set the threshold value (Level). Default value is 151. | Level |
| B&W Adaptive | Adaptive enhancement for line images. Suitable for scanning all kinds of drawings including difficult blueprints, brown transparencies (sepias), etc. You set Adaptive level. Provides minimum file sizes and is thereby, well suited for digitizing. | Level |
| B&W Copy Adaptive | Adaptive enhancement on foreground and background. This mode is suitable for copying (scan and print) of Sepia, Blueprint and other originals with heavily distorted foregrounds and backgrounds where the shades that create unwanted "noise" are close to the shades that make up the image's data and the two are hard to differentiate. | Level |
| Graytone | In this mode 256 gray levels are recognized for each pixel. Graytone mode creates good reproductions of complicated B/W images like B/W photos. | Gamma |
| 24-bit Color | This is the 24 bit true color mode for capturing all of the image's colors with the closest reproduction. This mode produces large files since all colors, even shades with only slight differences, are captured and produced. You use this mode when you want accurate reproduction of complicated color images like color photos and posters. You can make tonal adjustments through a Gamma value. | Gamma |

5. Press **Enter** to accept the *Scan Mode* and move the “>” marker back up. From here you can set the Scan Mode parameter (Level or Gamma). See details below.



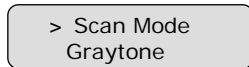
Press **Enter** to accept the Scan Mode. The “>” marker moves back up.

6.2.3 Set the Scan Mode Parameters – Level or Gamma




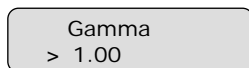
On the iJET Panel –

- When you pressed **Enter** to accept the *Scan Mode*, the “>” marker moved back up to the option text “*Scan Mode*”.. From here you can set the current *Scan Mode* parameter.





Press **Enter** to accept the *Scan Mode*. The “>” marker moves back up.

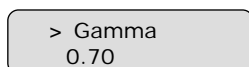
- Press the arrow down button  to move to the *Scan Mode*'s parameter option and then **Enter** to indicate you want to change it. If you selected *B&W Threshold*, *B&W Adaptive* or *B&W Copy Adaptive*, the parameter option will be *Level*. If you selected *Graytone* or *Color*, the parameter option will be *Gamma*. Use the guidelines in the table below to make your setting.



Press **Enter** to indicate you want to change the value. The > marker will move down..

| Scan Mode | Adjustment – what it does |
|-------------------|---|
| B&W Threshold | Level in this scan mode is the threshold value. Values between 0-255. The default is 151. When scanning at a specific threshold value, all gray tones below the threshold will be represented as black pixels, and all gray tones above will be represented as white pixels. |
| B&W Adaptive | B&W Adaptive Level works like a threshold - the lower the value, the more of the background is picked up during scanning. Values between 0-255. Default is 0. |
| B&W Copy Adaptive | B&W Copy Adaptive Level works like a threshold - the lower the value, the more of the background is picked up during scanning. Adaptive enhancement features are automatically applied in this copy mode, with simultaneous processing on different image aspects. You only have to adjust the adaptive "Level" to determine the best degree of enhancement processing for your specific image. Values between 0-255. Default is 0. |
| Graytone | Gamma – Values between 0.1 and 3.0. Default is 1.0. Pixels are intensified according to a gamma curve they are mapped to. A low gamma value smaller than 1.0 darkens the output while a high gamma value larger than 1.0 typically lightens the shadow areas and brings out detail. |
| 24-bit Color | Gamma– Values between 0.1 and 3.0. Default is 1.0. Pixels are intensified according to a gamma curve they are mapped to. A low gamma value smaller than 1.0 darkens the output while a high gamma value larger than 1.0 typically lightens the shadow areas and brings out detail. |

- Press the arrow up/down buttons   to change the value displayed.
- Press **Enter** to accept the new parameter value for the current *Scan Mode* The “>” marker moves back up back up to the *Scan-to-File* Menu level. From here you can move on and make more *Scan-to-file* menu settings.



Press **Enter** to accept the parameter value.

6.2.4 Set the Scan-to-File Resolution

This is where you determine image quality. Note that high resolutions create large files. 300 dpi or more is adequate for printing. Certain maps and CAD drawings with high levels of detail require high resolutions. CAD processing of the image may also require that you select a high resolution. The Dpi (dot per inch) range selectable is from 50 to 9600. Dpi value settings below or equal to the scanner's optical dpi will give **pure optical resolutions** without interpolation.

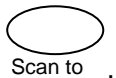
Interpolation involves resampling through adding pixels between original pixels to increase resolution beyond the actual number of CCD cells (optical resolution). The new pixel's colors and intensities are calculated on the basis of their surrounding pixels. See your scanner model specifications to view the scanner's optical resolution.



To set the Scan-to-File Resolution:

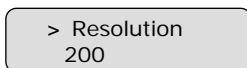



On the iJET Panel –

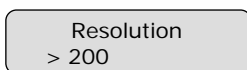
1. If you are not already in the Scan-to-File menu, start/enter the menu with the Scan to button as described in the beginning of this section.





2. Press the arrow up/down buttons   to move through the Scan-to-File Menu options until the display shows *Resolution*.




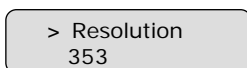
3. Press  to move the ">" marker down to indicate you want to change the resolution value.



The ">" marker is down to the value level so you can change the value.

4. Press the arrow up/down buttons   to change the Resolution value. You can select from a list of pre-defined resolution (dpi) values (50, 100, 200, 300 ...9600). Resolution values above the scanner's optical resolution will use interpolation.

5. Press  to accept the selected value and move the ">" marker back up to the Scan-to-File Menu level so you are ready to move on to the next Scan-to-File setting.



The ">" marker is back up to the Scan-to-File Menu level.

6.2.5 Set the Scan-to-File Size (input size)

This same Scan-to-File Menu option can also be reached by pressing the function *Size* button.

Size

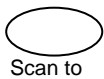
The value you set here determines the scan area. Usually this would be the size of the original unless you wish only to input a portion.


To set the Scan-to-File Size:

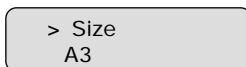



On the iJET Panel –

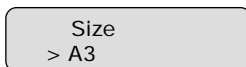
1. If you are not already in the Scan-to-File menu, start/enter the menu with the Scan to button as described in the beginning of this section.




2. Press the arrow up/down buttons  to move through the Scan-to-File Menu options until the display shows *Size*.



3. Press  to move the “>” marker down to indicate you want to change the *Size* value.

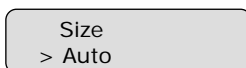



The “>” marker is down to the value level so you can change the value.

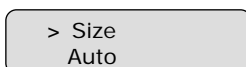
4. Press the arrow up/down buttons  to change the *Size* value.
5. The **Auto** option will detect the edges of the original and set the scan area to the full original size. **This is the recommended setting.** If necessary, you can later crop the image in an image editor after it has been saved to the target PC. The standard sizes shown are those that belong to the *Paper Series* you selected through *Menu > Advanced > Options > Paper Series*.



See this guide’s section on “*Personalizing and Localizing the System*” for details on selecting a *Paper Series* preference.



6. Press  to accept the selected value and move the “>” marker back up to the Scan-to-File Menu level so you are ready to move on to the next Scan-to-File setting.



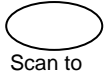
The “>” marker is back up to the Scan-to-File Menu level.



NOTE: About the Size value: *Size* is a global system variable that can be changed in 3 different ways: 1. With the *Size* button 2. With the *Menu* button > *Size* option and 3. With the Scan-to button > *Size* option. This means that when you change the size for a copy job, it will also apply for a scan-to-file job and vice versa until you change it again.

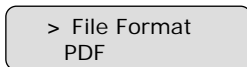
6.2.6 Set the *File Format* (*TIFF, JPEG, PDF*)


On the iJET Panel –

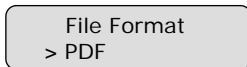
1. If you are not already in the Scan-to-File menu, start/enter the menu with the *Scan to* button as described in the beginning of this section.




2. Press the arrow up/down buttons   to move through the Scan-to-File Menu options until the display shows *File Format*.





3. Press  to move the ">" marker down so you can change the current option's value if needed.




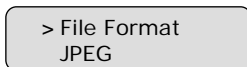
When you press , the ">" marker moves down indicating you can change the option value.


4. Press the arrow up/down buttons   to move through the values for the *File Format* option. The following *File Formats* are available.

5. *PDF* – If selected you can set a quality factor from 1 to 100. 70 is default.
6. *JPG* – If selected you can set a quality factor from 1 to 100. 70 is default.
7. *TIFF* – If selected you can set quality to *Uncompressed* or *PackBits*.

8. Press the arrow up/down buttons   to change the value displayed.

9. Press  to accept the *File Format* and move the ">" marker back up. From here you can set the File Format quality. See details below.



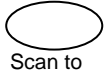
Press , to accept the File Format. The ">" marker moves back up.



6.2.7 Set the File Format Quality

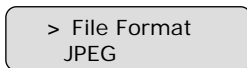



On the iJET Panel –

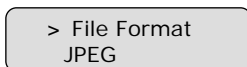
1. **If you are not already in the Scan-to-File menu, and want to change the Quality value for the current file format setting** - start/enter the menu with the Scan to button as described in the beginning of this section.






2. Press the arrow up/down buttons   to move through the Scan-to-File Menu options until the display shows *File Format*. Then move on to step 4.

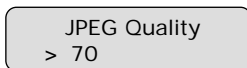



3. **If you are in the Scan-to-File menu and have just selected a File Format as described in the previous section** - When you pressed  to accept the *File Format*, the ">" marker moved back up to the option text "*File Format*". From here you can move forward in the Scan-to-File Menu to set the *File Format* quality parameter.






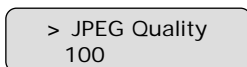
Press  to accept the File Format. The ">" marker moves back up.

4. Press the arrow down button  to move to the *File Format's Quality* parameter option and then  to indicate you want to change it.



Press  to indicate you want to change the value. The > marker will move down..

5. Press the arrow up/down buttons   to change the value displayed.
6. Press  to accept the new quality value for the current *File Format*. The ">" marker moves back up back up to the Scan-to-File Menu level. From here you can move on and make more Scan-to-file menu settings.



Press  to accept the parameter value.

6.2.8 Using Scan Software – From Local PC or Network PC

The “Scan/Copy station on Local PC” configuration was described in the section on “*Setup and Configuration*”. Scanning to file with this configuration can take place through **scan software installed on the PC**. The software would control the scanner and all settings and operation would take place from the PC.

If the scanner is connected and setup with network identification on the LAN and is enabled for sharing, PCs on the LAN can recognize and use the scanner if compatible scan or copy software is installed on the PC. The PCs must also have WIDsystemNET installed.

For both of these cases, please refer to the scan/copy software documentation and on-line help for the most up-to-date instructions on using the specific software application with the scanner.

Be sure to view the on-line help for WIDsystemNET for information on scanner sharing and scanning to a designated folder (to a network PC) on the LAN.



Please refer to this Operator’s Guide section on *Scanner On Network Setup* and *Setup to Share the Scanner* for details on enabling your scanner to be recognized on the LAN and shared by network PCs.

7. Maintenance

7.1 Preliminary Maintenance – scanner setup



On scanners:

When you have setup your new scanner and verified your installation, it is important that you run your first maintenance session before working with the scanner. Shipping and transportation can affect the cameras and it is therefore highly recommended to calibrate. But before you do so, you must thoroughly clean the scanner. Preliminary Maintenance is just the very first session of regular scanner maintenance and involves the same steps. Follow the instructions in the next section under *Regular Scanner Maintenance*.

7.2 Regular Scanner Maintenance

Regular scanner maintenance is a sure way to minimize costly downtime. The three routine maintenance procedures **cleaning**, **camera alignment** and **calibration** will improve image quality and reduce your service costs.

NOTE: Camera Alignment is not relevant with 18" scanners.


The maintenance functions are closely entwined and they should all be performed in a single maintenance session, starting with cleaning the scan area and ending with calibration. The reason for this is simple. If you clean the glass or adjust the cameras then you will have changed conditions in the scanning area and will need to calibrate in order to readjust black, white and color interpretation. This works the other way as well – scanner calibration must always be preceded by cleaning and camera alignment to get reliable calibration results.


Scanner Maintenance is very easy to perform and most of it is completely automatic. After manually cleaning the scan area, you just insert a Calibration Sheet, and start the Scanner Maintenance program.

On some scanner models you can activate the Scanner Maintenance program from the iJET Panel. On others you must run the Scanner Maintenance program from a PC that recognizes the scanner and has WIDeSystemNET and Scanner Maintenance software installed. See the following section on *Running the Scanner Maintenance Program* for details..

7.3 Cleaning the Scan Area

A clean scan area is vital for optimal results. Cleaning instructions for each scanner type follow below:

 **Caution:** do not use abrasives, acetone, benzene or fluids that contain these chemicals. Do not spray liquids directly onto the scanner glass-plate or anywhere else in the scanner.


 **Caution:** Before cleaning the scan area, be sure to turn the scanner power off and disconnect the power plug.




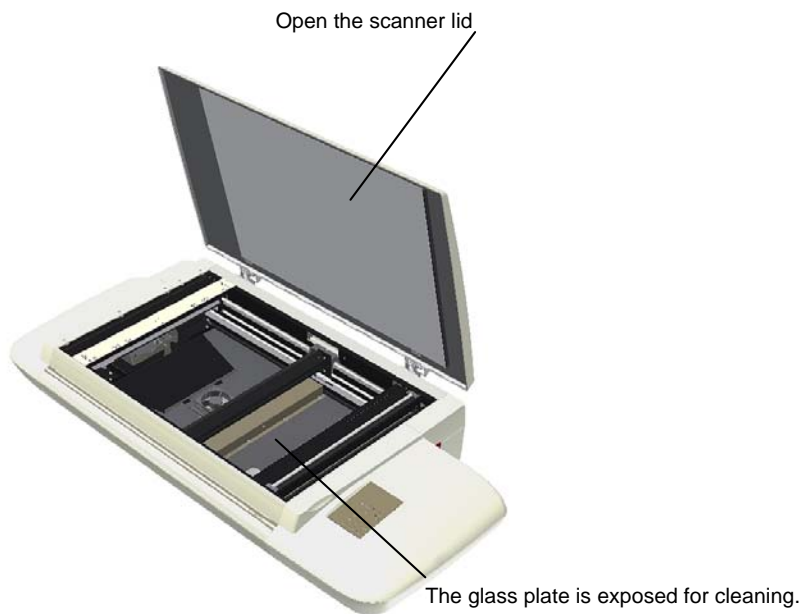
Cleaning the Scan Area



On scanners:

1.  Turn the scanner power off and disconnect the power plug.
2. Open the scan area lid.
3. The glass-plate is now exposed for cleaning.
4. Clean the glass with a lint-free cloth and a mild, streak-free, glass cleaner. Dry the glass completely using a separate clean, dry lint-free cloth like the one provided with the maintenance kit.
5. Close the scanning area lid when finished. Cover your scanner with the plastic dust cover when not in use.


 **Caution:** Make sure the scanner power is OFF when using the scanner dust cover.




Cleaning the Scan Area



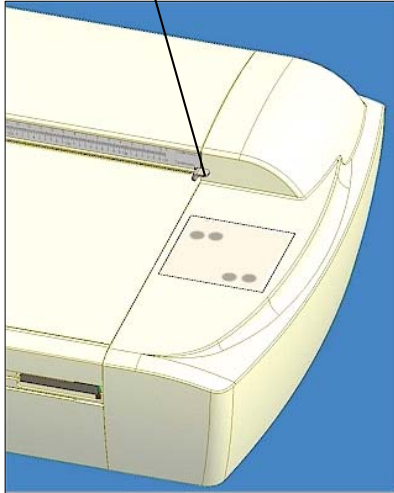
On scanners:

1.  Turn the scanner power off and disconnect the power plug.
2. Push down on the two lever buttons found near the insertion slot on each side of the scanning area lid.
3. The scanning area lid locking mechanism should now be disengaged.
4. As you hold both lever buttons down, place your free fingers in the insertion slot and flip the scanning area lid open.
5. The glass-plate is now exposed for cleaning.
6. Clean the glass with a lint-free cloth and a mild, streak-free, glass cleaner. Dry the glass completely using a separate clean, dry lint-free cloth like the one provided with the maintenance kit.
7. The pressure-platen with the white-background-platen (white metal area) is fixed in the scanning area lid. Hold the lid open as you clean.
8. Wipe the white area and the transport rollers with a lint-free cloth and a mild, streak-free, glass cleaner. Apply the cleaner to the cloth and first wipe the platen's white area and then the transport roller's surface.
9. Dry the platen and rollers completely using separate clean, dry lint-free cloths.
10. Close the scanning area lid when finished. The locks will reengage.

11. Clean also the scanner surface so dirt and dust are not dragged into the scan area with the original.
12. Cover your scanner with the plastic dust cover when not in use.

 **Caution:** Make sure the scanner power is OFF when using the scanner dust cover.

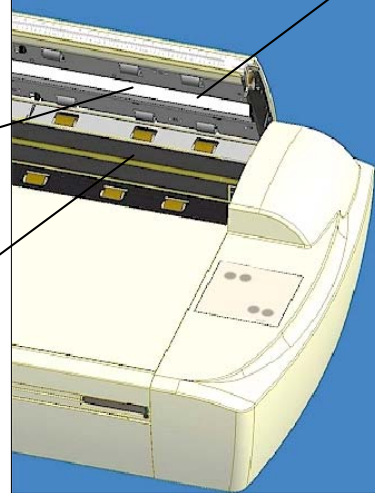
Push down lever (on both sides) to unlock scanning area lid.



While holding down the levers, insert fingers in the slot and flip the lid open to access the glass-plate and white-background-platen.

White-background platen

Glass-plate



7.4 Running the Scanner Maintenance Program

The way you start and run the Scanner Maintenance Program depends on your scanner model and configuration.


7.4.1 Starting Scanner Maintenance from the iJET Panel

On some scanner models you can activate the Scanner Maintenance program from the iJET Panel.

To start the program on these scanners:



On the iJET Panel

1. Select the *Menu* button. 
2. Select *Advanced > Options > Scanner Maintenance*
3. *Press Enter to start.*
4. Follow the Scanner Maintenance instructions described below.

7.4.2 Starting Scanner Maintenance from a PC on the LAN

If the Scanner Maintenance option does not exist in your iJET Panel, you must run the Scanner Maintenance program from a PC that recognizes the scanner. This can be done from a PC on the LAN that has WIDeSystemNET setup to recognize the scanner and Scanner Maintenance installed. The scanner must also be enabled for sharing. See the sections “*Scanner on Network Setup*” and “*Setup to Share the Scanner*” for instructions. See your WIDeSystemNET on-line help for details on adding a scanner to the list of recognized scanners on a PC.

To start scanner maintenance from a PC on the LAN:

1. Start WIDeSystemNET and select the scanner from your list of scanners.
2. Right-click on the WIDeSystemNET icon and select Scanner Maintenance.
3. Follow the Scanner Maintenance instructions described below.

7.4.3 Starting Scanner Maintenance from a Local PC

If the Scanner Maintenance option does not exist in your iJET Panel and is not enabled for network/shared scanning, you must run the Scanner Maintenance program from a PC connected locally through the USB port. The PC must have WIDeSystemNET and Scanner Maintenance installed. See the section: *Scanner Configuration and Setup – Connect the Scanner to a PC.*

To start Scanner Maintenance from a local PC:

1. Right-click on the WIDeSystemNET icon and select *Launch Scanner Maintenance.*
2. Follow the Scanner Maintenance instructions described below.

7.4.4 Running Scanner Maintenance - Steps

The steps for running Scanner Maintenance described below are the same regardless of which of the solutions for starting and running the program you use.

To run Scanner maintenance Program:



On Scanners

1. Make sure that the scanner has been turned on for at least one hour prior to running the maintenance routine. Slight light intensity changes can occur just after turning the scanner on and the warm-up time will ensure that light conditions have stabilized.



2. Insert the Calibration Sheet that came with your scanner. **The sheet's printed side must be inserted face down.**
3. Start the Scanner Maintenance program in one of the ways described at the start of this section.
4. The program will run calibration.
5. After calibration, remove the Calibration Sheet from the scanner.
6. Return the Scanner Calibration Sheet to its protective cover and then place it in the storage folder. Store the folder in a dry place and out of direct light.



On Scanners

1. Make sure that the scanner has been turned on for at least one hour prior to camera alignment and calibration. Slight light intensity changes and camera shifting can occur just after turning the scanner on and the warm-up time will ensure that light conditions and camera heights have stabilized.





2. Insert the Calibration Sheet that came with your scanner. Align the midpoint arrow with the middle mark on the scanner. **The sheet's printed side must be inserted face down.**
3. Start the Scanner Maintenance program in one of the ways described at the start of this section.
4. The program will run Camera Alignment, Stitching and Calibration.

5. The program analyses **alignment and stitching** status of the cameras. If the cameras are unaligned, the program and scanner will automatically make the necessary corrections.
6. After Camera Alignment, the Scanner Maintenance program automatically moves on to **Calibration**.
7. Calibration completes the maintenance process. Remove the Scanner Calibration Sheet from the scanner.
8. Return the Scanner Calibration Sheet to its protective cover and then place it in the storage folder. Store the folder in a dry place and out of direct light.

7.5 Replacing Scanner Parts

This section describes how to replace those scanner parts that are liable to wear down over long-term use. Changing parts will renew your scanner and ensure optimal results. Your scanner monitors usage of parts and will warn you when it is time for a replacement through a message in the iJET Panel display window.

Some scanner models are designed so users can replace parts on their own (user-replaceable parts) while other scanner models will require a service technician. The instructions in this section apply only for scanners with user-replaceable parts. You can see which parts are user-replaceable on your scanner in the table below.

| Scanner Type | Parts that are User-Replaceable |
|--|--|
|  | White-background-platen, Lamp, Dust filters |
|  | Glass-plate, White-background-platen, Lamp, Dust filters |

! Important Safety Instruction: Before replacing any user-replaceable parts, be sure to turn the scanner power off and disconnect the power plug.




7.5.1 Replacing the Glass-plate

Some scanner models are designed so users can detach the glass-plate from the scanner in order to replace scratched glass-plates with new ones. On other scanner models, such as the flat bed models, a service technician must perform this process. Your scanner monitors usage of the glass platen and will warn you when it is time for a replacement through a message in the iJET Panel display window.

Replacing the Glass-plate:



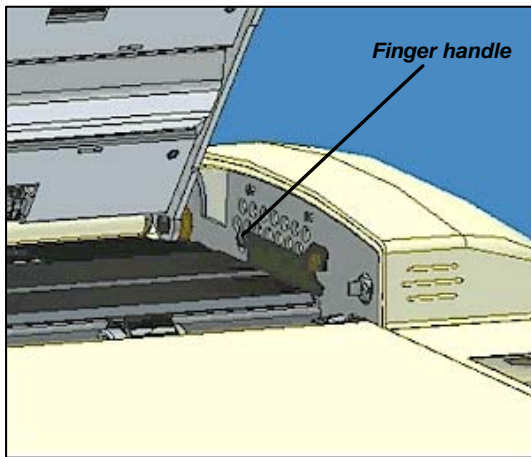
On Scanners:

1.  Turn the scanner power off and disconnect the power plug.
2. Push down on the two lever buttons found near the insertion slot on each side of the scanning area lid.
3. The scanning area lid locking mechanism should now be disengaged.
4. As you hold both lever buttons down, place your free fingers in the insertion slot and flip the scanning area lid open.
5. The glass-plate will be exposed and accessible.
6. On each side of the glass-plate there is a small lever and round finger-handle (see illustration below). Place your thumbs under both handles on each side.
7. With both arms, pull simultaneously on the left and right levers to flip the glass-plate towards your body.
8. Each lever is attached to the scanner chassis with a small hook that rests on a pin. Simultaneously lift both levers upwards to detach their hooks for the pins and free the glass-plate from the scanner.
9. To reinsert a new glass-plate – Fit the new glass-plate's lever hooks on the pins on each side of the scanner.
10. While supporting the glass-plate with your thumbs on the finger handles, carefully push the glass-plate backwards (away from your body) and ease it down into place.
11. Close the scanning area lid.

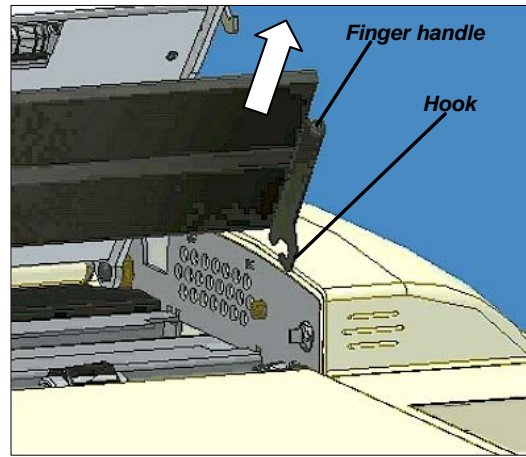
NOTE: Make sure you clean a new glass-plate before using it with the scanner.

Remove the glass-plate:

Step 1: Open the lid. Locate the lever's finger handle on each side. *Shown below: Right side finger-handle.*



Step 2: Flip back. Lift the lever's hooks and glass-plate free of the scanner.




7.5.2 Replacing the White-Background

A white-background platen can become damaged, worn or discolored after long periods of use and replacement with a fresh white-background-platen is recommended. Your scanner monitors usage of parts and will warn you when it is time for a replacement through a message in the iJET Panel display window.



On Scanners:


1.  Turn the scanner power off and disconnect the power plug.
2. Open the scanner's lid all the way.
3. The white background platen is attached to the lid's underside.
4. Use both hands to place your fingers on the white background platen's edges and pull it free.
5. Place the new white background platen on the glass plate with the Velcro corners facing up.
6. Align the new white background platen on the glass by making sure there is an equal amount of space around all four edges.
7. Gently close the lid and press it firmly on the white background platen.
8. Open the lid and press firmly on the new white background platen corners to make sure the Velcro is properly in contact in all places.

Detachable White Background Platen



Replacing the White-background-platen:

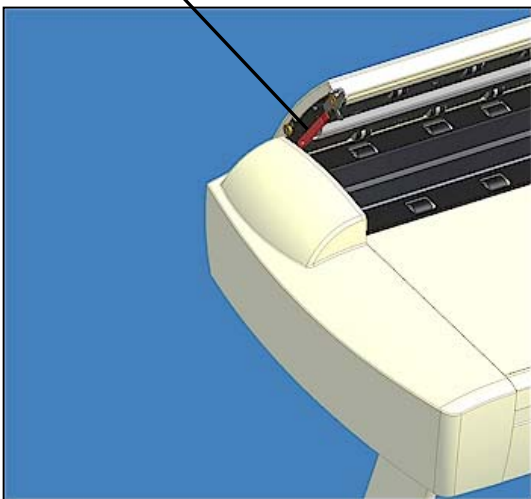
On Scanners:

1.  Turn the scanner power off and disconnect the power plug.
2. Push down on the two lever buttons found near the insertion slot on each side of the scanning area lid.
3. The lid's locking mechanism should now be disengaged.
4. As you hold both lever buttons down, place your free fingers in the insertion slot and flip the scanning area lid open.
5. On the lid's left edge, you will find a red strip. Remove the red strip to expose the edge of the white-background-platen.
6. Grip the edge of the white-background-platen with your fingers and pull to slide it out of the scanner.
7. Carefully slide in a new white-background-platen while taking care not to bend it.
8. Reattach the red strip.
9. Close the scanning area lid so the locking mechanism reengages.

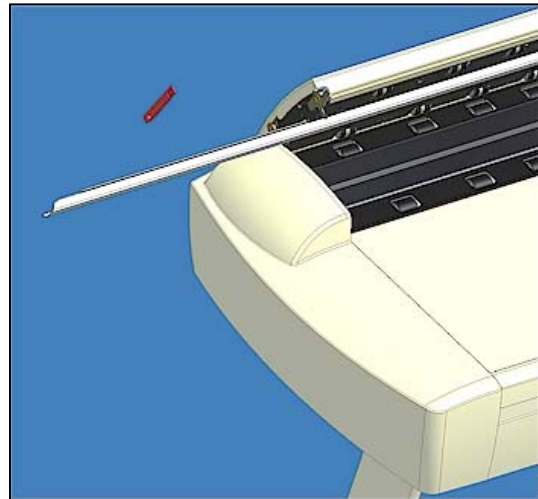
See the illustration below:

To change the white-background-platen:

Open the lid and locate the red strip on the left side of the scanner.



Remove the strip and slide out the white background platen. Reinsert a new platen and replace the strip.



7.5.3 Replacing the Scanner Lamp-Unit

Your scanner comes with a high quality and durable lamp. Even so, its effectiveness will gradually weaken over time. A new lamp-unit can be obtained through your dealer. Your scanner monitors usage of the lamp and will warn you when it is time for a replacement through a message in the iJET Panel display window. To change the lamp, you have to command the scanner to move the scan-head to the right position so you can pull out the lamp unit and reinsert a new one.

Replacing the Scanner Lamp-unit:



On Scanners:



On the iJET Panel

1. Select the *Menu* button.
2. Use the arrow button up or down until the display window shows *Advanced* and confirm with the *Enter* button .
3. Use the arrow buttons up or down until the display shows *Service* and confirm with .

> Service
...

Press to confirm
Service

4. The option *Replace Lamp* appears. Press *Enter* to move the ">" marker down to its value so you can change it.

Replace Lamp
> NO


Press to move the ">"
Marker down so you can change

5. Press the arrow down to change the option to *YES* and press *Enter* to accept. The scan head will move into position so you can pull it put of the scanner.

Replace Lamp
> YES


Press to start

6. Turn the scanner power off and disconnect the power plug.
7. The lamp cover is on the backside of the scanner. Slide the lamp cover to the right to open it.
8. You must replace the whole lamp-unit. A lamp-unit consists of a lamp with fixed power connectors.
9. Grasp the edge of the lamp-unit and carefully pull it out of the scanner.
10. Reinsert the new lamp-unit. Rest the power-connector side on the slider and carefully push the lamp-unit into the scanner.

11. Insert the lamp-unit all the way so the internal power connections engage with the connections on the lamp-unit.
12.  Close the lamp cover – Slide the cover to the left until it CLICKS shut. The cover must always be closed before turning scanner power ON.
13. Test the replacement by turning power on to see if the lamp lights.
14. Reset the part replacement counter that triggers the warning flag -

Press the arrow down button  to reach *Reset Lamp Cnt.*, press  and use the arrow down to select *Yes*. Confirm with *Enter*.

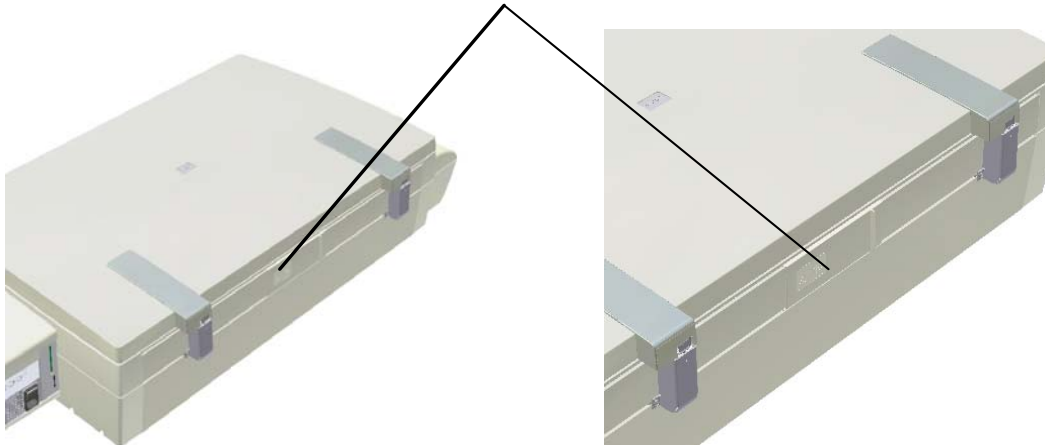
Reset Lamp Cnt.
> YES

Press  to confirm resetting the lamp part replacement counter

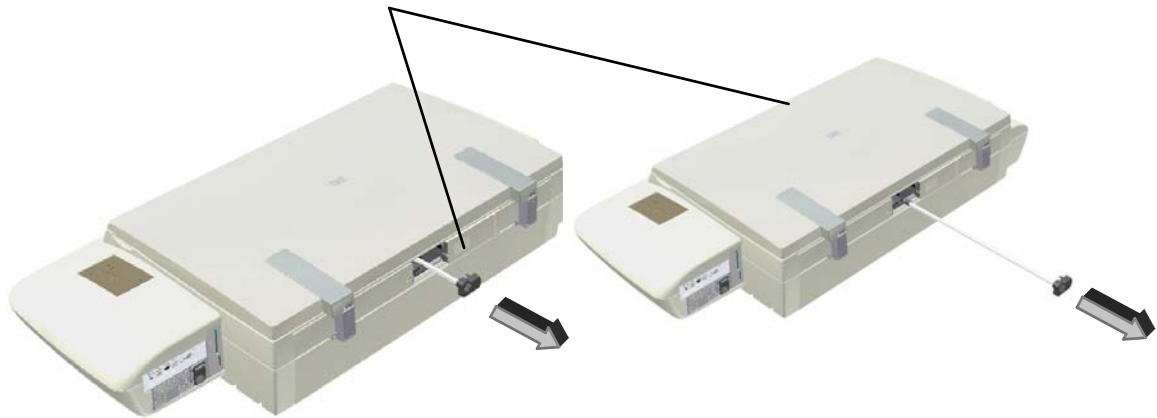
The following illustrations show removing and inserting a lamp unit. The lamp must be positioned for removal through the iJET Panel:

To replace the lamp-unit:

Locate the lamp cover on the backside of the scanner. Use the iJET panel to position the lamp for removal.



Pull the lamp unit out of the scanner.



Lamp Unit



power connectors



Replacing the Scanner Lamp-unit:




On Scanners:

1.  Turn the scanner power off and disconnect the power plug.
2. The lamp cover is on the top right edge of the scanner.
3. Grasp the cover on each side with both hands and pull back to detach.
4. Lift the cover upwards to free it from the scanner.
5. You must replace the whole lamp-unit. A lamp-unit consists of a lamp mounted in a reflector brace and fixed power connectors.
6. Grasp the edge of the lamp-unit and carefully pull it out of the scanner.
7. Reinsert the new lamp-unit. Rest the power-connector side on the slider and carefully push the lamp-unit into the scanner.
8. Insert the lamp-unit all the way so the internal power connections engage with the connections on the lamp-unit.
9.  Replace the lamp cover on the scanner - fit the bottom notches in the holes and snap the cover shut. The cover must always be closed before turning scanner power ON.
10. Test the replacement by turning power and scanner on to see if the lamp lights.
11. Reset the part replacement counter that triggers the warning flag – Go to *Menu* button > *Advanced* > *Options* > *Service*.

Press the arrow down button  to reach *Reset Lamp Cnt.*, press  and use the arrow down to select *Yes*. Confirm with *Enter*.

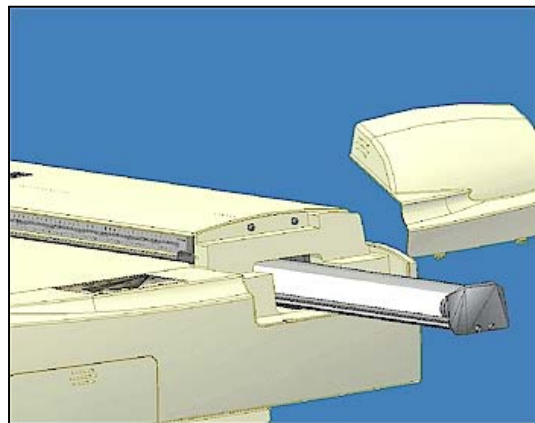
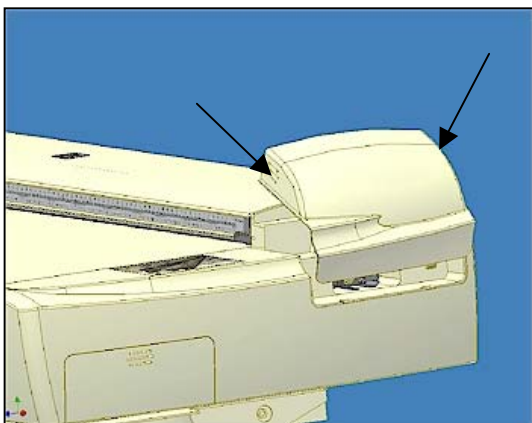


Press  to confirm resetting the lamp part replacement counter

To replace the lamp-unit:

The lamp cover is on the right side of the scanner. Grasp the cover on both sides, pull back and then up to detach.

Free the cover from the scanner. Pull out the lamp-unit and insert the new one.




7.5.4 Replacing the Dust-Filters

Fresh dust filters can reduce the amount of time spent on cleaning and calibration. The dust filters protect your scanner's air-cooling vents. Some scanner models are designed so users can replace the dust filters. On other models, a service technician must perform this process. See your scanner's model specifications to see if the dust filters are user-replaceable on your scanner. Your scanner monitors usage of the filters and will warn you when it is time for a replacement through a message in the iJET Panel display window.

Replacing the Dust-filters:

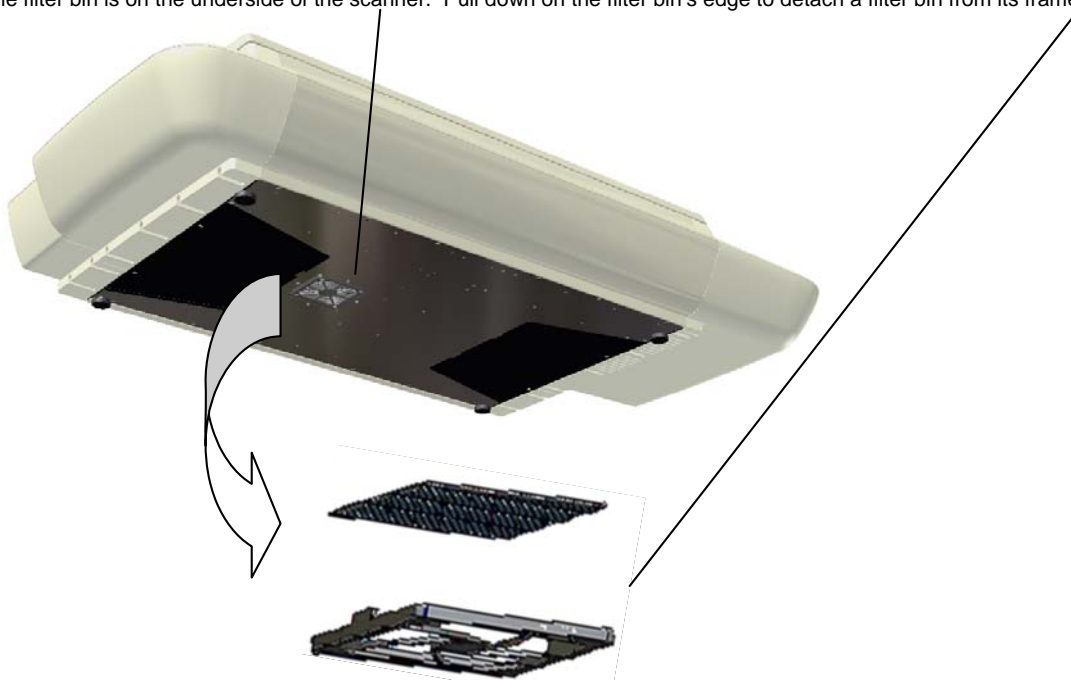


On Scanners:

1.  Turn the scanner power off and disconnect the power plug.
2. Locate the 2 square-shaped dust filter bins on the underside of the scanner.
3. Pull down on the edge of a dust filter bin to detach it from its frame.
4. The filter (soft material) is inside the bin. Remove the old filter and replace with a fresh one.
5. Reattach (click on) the bin to its frame on the underside of the scanner.
6. Repeat the process with the second filter.

Changing the Dust-filters:

The filter bin is on the underside of the scanner. Pull down on the filter bin's edge to detach a filter bin from its frame.



Replacing the Dust-filters:

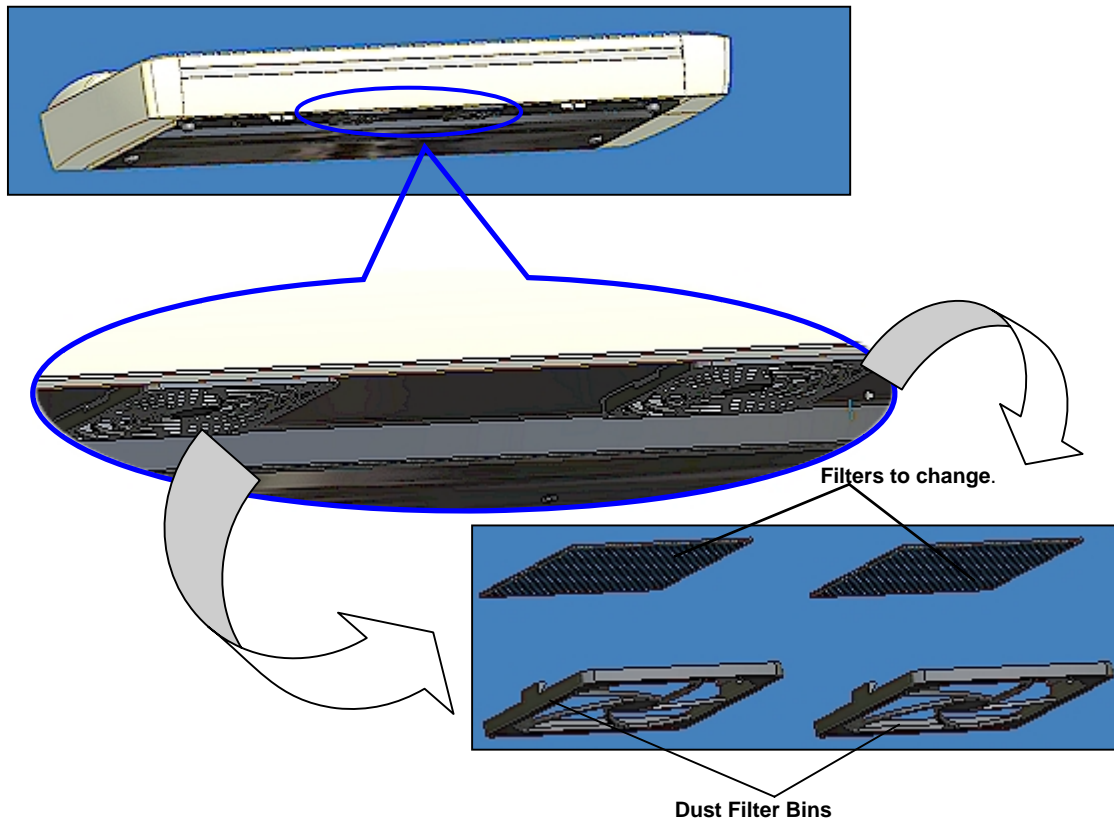


On Scanners:

1. ⚠ Turn the scanner power off and disconnect the power plug.
2. Locate the 2 square-shaped dust filter bins on the underside of the scanner.
3. Pull down on the edge of a dust filter bin to detach it from its frame.
4. The filter (soft material) is inside the bin. Remove the old filter and replace with a fresh one.
5. Reattach (click on) the bin to its frame on the underside of the scanner.
6. Repeat the process with the second filter.

Changing the Dust-filters:

The filter bins on the underside of the scanner. Pull down on a filter bin's edge to detach a filter bin from its frame.



7.6 Locate / Change the Smart Card

Check that the Smart Card is correctly installed (contact side downwards) and corresponds to your scanner model. The scanner will function correctly only with a Smart Card inserted.

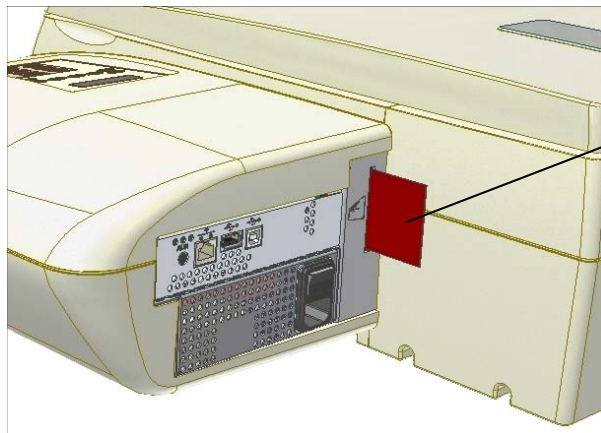
! Be sure that the scanner is turned off when removing/inserting a Smart Card or accessing the Smart Card area.

Locating the Smart Card



On Scanners

On the flatbed scanners you will find the Smart Card at the scanner's back near the interface connectors and above the power switch. The Smart Card is placed in its insertion slot.



Smart Card slot near interface connectors and main power switch

Locating the Smart Card

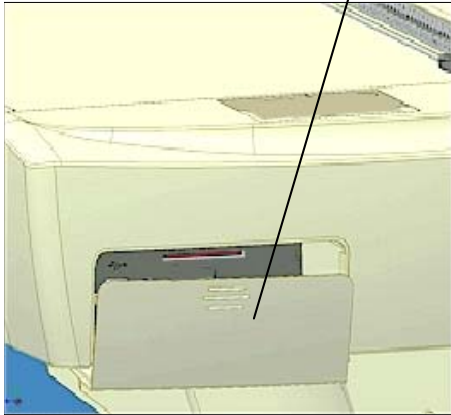


On Scanners

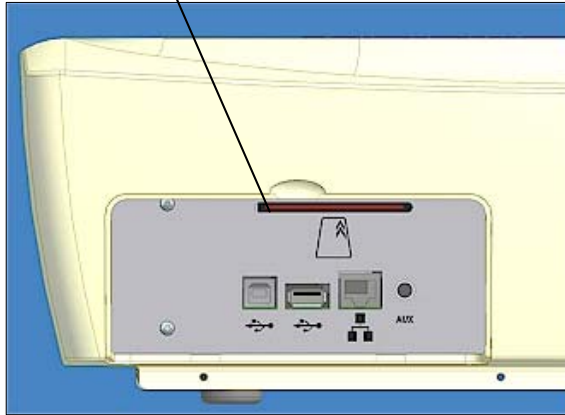
On these models you will find the Smart Card by removing the scanner's right side cover. The Smart Card is placed in its insertion slot above the scanner interface connectors.

! Be sure to reattach the cover after inserting the smart card. The cover must always be closed before you turn the scanner ON.

Remove the scanner's right side cover



Smart Card slot above interface connectors



7.7 Downloading New Firmware



Like a computer, your scanner employs processors that require software in order to work. This software is called "Firmware". Firmware is the software that runs inside the scanner.

When to use new firmware?

Your scanner is shipped with the latest firmware available. You can afterwards upgrade your original firmware with newer firmware and continue to do so as they are released. Firmware upgrades can be downloaded from your manufacture's website or obtained through your dealer.

Upgrade your firmware when:

1. One or more new features are released or other improvements are made to the scanner through its firmware.
2. An error is discovered in the firmware version you have in the scanner and your manufacturer recommends installation of new firmware in which the error is corrected.

Your manufacture's website specifies improvements for every new firmware release.

In order to load firmware to your scanner, you will need a PC that can access the scanner.

This can be done from a PC on the LAN that has WIDESystemNET setup to recognize the scanner. The scanner must also be enabled for sharing. See the sections "*Scanner on Network Setup*" and "*Setup to Share the Scanner*" for instructions. See your WIDESystemNET on-line help for details on adding a scanner to the list of recognized scanners on a PC.

If no network PC is available, you must download firmware from a PC connected locally through the USB port. See the section: *Scanner Configuration and Setup – Connect the Scanner to a PC*.

How to identify the firmware version running in the scanner?

1. Start WIDESystem – double click on the system tray's scanner icon and select the *Scanner* if not already selected. .
2. Select the **Info** tab.
3. The Info tab displays useful data about your scanner firmware.
 - *Firmware release* - Upgradeable firmware version.
 - *Firmware revision* - Firmware build number.
 - *Firmware timestamp* - The date/time the current firmware code was compiled.
 - *Firmware download time* - The date/time the current firmware was downloaded.

You can upgrade if the *Firmware Release* number is lower than the newest firmware version number on your manufacture's website.

How to install new firmware?

New firmware is installed by opening a firmware .exe file. The firmware .exe file must first reside on your machine. Select the Save target (or Save Link) option if downloading from the web.

To install the firmware file on your scanner:

1. Download/save the firmware .exe file in a folder on your machine.
2. Start WIDSystem's Quick menu - Right-click the scanner icon in the system tray.
3. Select *Advanced Options*. Select *Update Scanner Firmware*
4. Browse the folders on your machine and find the firmware .exe file you wish to apply.
5. Select the firmware file and click OK to install. Installation can take up to 1 minute depending on the scanner model and firmware version. The WIDSystem scanner icon on your system tray blinks red during the download process.
6. Follow the instructions on your screen.

8. Appendix A: Important Safety Instructions



Read all of these instructions and save them for later use. Follow all warnings and instructions marked on the scanner.

- A.** Do not place the scanner on an unstable surface, stand, cart or table. Serious damage can be caused if the unit falls.
- B.** For cleaning, do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- C.** Before **cleaning** or replacing any **user-replaceable parts**, be sure to turn the scanner power off and disconnect the power plug.
- D.** The scanner should be operated from the power source type indicated on the marking label. If you are unsure of the type of power available, consult your dealer or local power company.
- E.** The scanner is equipped with a three-wire grounding type plug. This plug will fit only into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat or ignore the purpose of the grounding-type plug.
- F.** Do not allow anything to rest on the power cord. Do not locate the scanner where persons will walk on the cord.
- G.** If an extension cord is used with the scanner, make sure that the total ampere ratings of the products plugged into the extension cord does not exceed the extension cord ampere rating. Make sure that the total rating of all products plugged into the wall outlet does not exceed 15 amperes.
- H.** Slots or openings in the cabinet at the back or bottom are provided for ventilation. This ensures reliable operation of the product and protects it from overheating. These openings must never be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar soft surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
- I.** Never push objects of any kind into the scanner through cabinet slots since they may touch dangerous voltage points or short out parts that could result in a risk of fire or electrical shock. Avoid any possibility of spilling liquid of any kind on the scanner.
- J.** Do not attempt to service the scanner yourself. Opening or removing those covers requiring tools may expose you to dangerous voltage points or other risks. Refer all servicing in those compartments to authorized service personnel.
- K.** Unplug the scanner from the wall outlet and refer servicing to authorized service personnel under the following conditions:
 - When the power cord or plug is damaged or frayed.
 - If liquid has been spilled into the scanner.
 - If the scanner has been exposed to rain or water.
 - If the scanner does not operate normally when operating instructions are followed then adjust only those controls covered by the instructions in this manual. Improper adjustment of controls other than those mentioned in this manual may result in permanent damage and will at best require extensive work by a qualified technician to restore this product to its normal operation.
 - If the scanner has been dropped or the cabinet has been damaged.
 - If the scanner exhibits a distinct change in performance, indicating a need for service.

9. Appendix B: Regulations**FCC Regulations****USA**

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

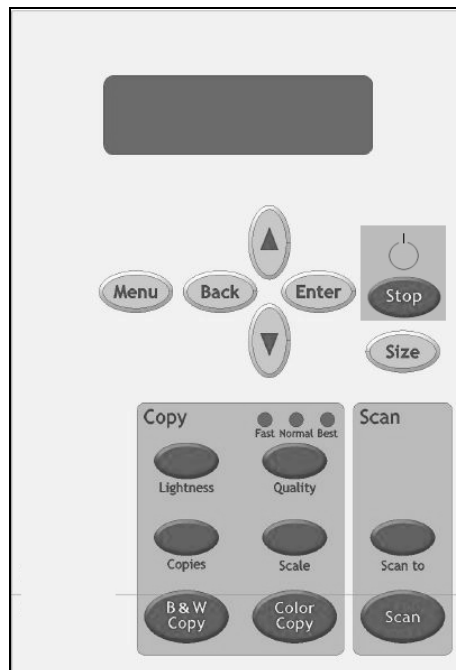
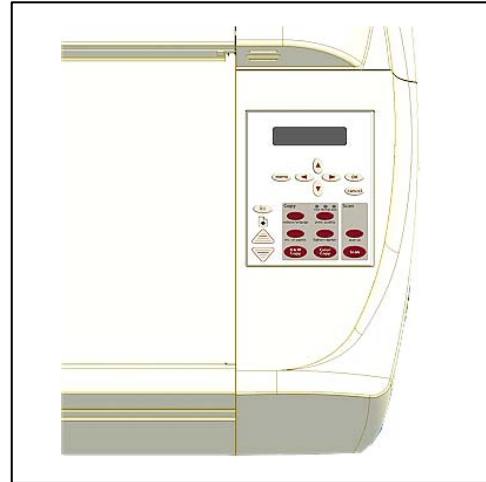
Caution: Pursuant to Part 15.21 of the FCC Rules, any changes or modifications not expressly approved by the manufacturer may cause harmful interference and void the user's authority to operate the equipment.

CE Regulations**EU****Warning**

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

10. Appendix C: iJET Panel Quick Reference Guide

Quick Reference Guide to the iJET Panel Wide Format Copy Scanners with iJET Technology



About the Quick Reference Guide

This manual is a complete reference guide to the iJET Panel buttons, menus and options including short help instructions on using these with scan and copy tasks. The guide contains:

- Overview – description of the iJET Panel buttons
- Option path and panel button sequence diagrams – to help you find options and settings.
- Option description tables – to guide you on how to use the panel options.

This Quick Reference Guide covers the following scanners:



18" (A2) flatbed wide
format copy scanners
with iJET panel









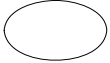


Model ID:
AA51A

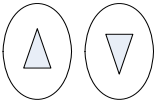




36" wide format copy
scanners with iJET panel

Model ID:
KA67E

iJET Panel Buttons Overview

| Button | Description |
|--|--|
| SIZE OF ORIGINAL – for both Copy and Scan-to-File jobs | |
| Size  | <p>Settings button - For setting the size of the original. The <i>Size</i> button is used for both copy and scan-to-file operation. Press the button to activate option setting. You then change the value each time you again press the button or with the arrow up/down buttons. You can select <i>Auto</i> detection or a standard size setting.</p> <p>NOTE that <i>Size</i> is a global system variable that can be changed in 3 different ways: 1. With the <i>Size</i> button 2. With the <i>Menu</i> button > <i>Size</i> option and 3. With the <i>Scan-to</i> button > <i>Size</i> option. This means that when you change the size for a copy job, it will also apply for a scan-to-file job and vice versa unless you change it again.</p> |
| COPY (scan to printer) | |
| B&W Copy  | <p>Action Button: Starts the scan-to-printer process (copying) based on the current B&W copy settings made through the <i>Menu</i> button and the panel's Lightness, Quality, Copies, Scale, Size buttons.</p> |
| Color Copy  | <p>Action Button: Starts the scan-to-printer process (copying) based on the current color copy settings made through the <i>Menu</i> button and the panel's Lightness, Quality, Copies, Scale, Size buttons.</p> |
| Lightness  | <p>Settings Button: For increasing or decreasing lightness in the copy. Press the button to activate option setting. You then change the value each time you again press the button or with the arrow up/down buttons.</p> |
| Quality  | <p>Settings Button: For setting copy quality to <i>Fast</i>, <i>Normal</i> or <i>Best</i>. Press the button to activate option setting. You then change the value each time you again press the button or with the arrow up/down buttons.</p> |
| Copies  | <p>Settings Button: For setting the number of (how many) copies you want output. Press the button to activate option setting. You then change the value each time you again press the button or with the arrow up/down buttons.</p> |
| Scale  | <p>Settings Button: For setting a value that defines the output size in relation to the input size. For making copies larger or smaller than the original. Press the button to activate option setting. You then change the value to predefined scale ratios each time you again press the button. Use the arrow up/down buttons for fine tuning - 1 step increments of the currently displayed value. Press the <i>Enter</i> button to save.</p> |
| Menu  | <p>Menu Button: Leads to submenus and options for:</p> <ul style="list-style-type: none"> • Entering company defaults for color and B&W copy jobs and changing settings for special jobs. • Setting up the system including network, printer and preferences. • Maintenance and calibration of the scanner. <p><i>Note: See a complete overview of submenus and options in the Menu button section.</i></p> |
| SCAN TO FILE | |
| Scan to  | <p>Settings and Menu Button: For Scan-to-file – For selecting a scan-to-file target (PC on the network) and for setting scan-to-file options. You change the scan target each time you press the button. Keep pressing until you see the right target in the window. Then, pressing <i>Enter</i> will lead to the Scan to File Menu with its many scan-to-file options you can select for the job. Scan-to-file options include modes, formats, and resolution.</p> <p><i>Note: See complete overview of the submenus and options in the Scan to button section.</i></p> |
| Scan  | <p>Action Button: Starts the scan-to-file process based on the current settings made through the <i>Scan to</i> button.</p> |
| OPERATION – CONTROL / NAVIGATION | |
| Enter  | <p>Control Button: To move through <i>menu options</i> until the right option is displayed. for entering the menu functionality for changing an option's value and for setting/accepting the value once it is selected.</p> |
| Arrow Up/ Down | <p>Navigation Button: To move through <i>values</i> for a selected option until the correct value is displayed. The first value displayed in a menu is the always the current (latest selected) value. If you are setting the</p> |

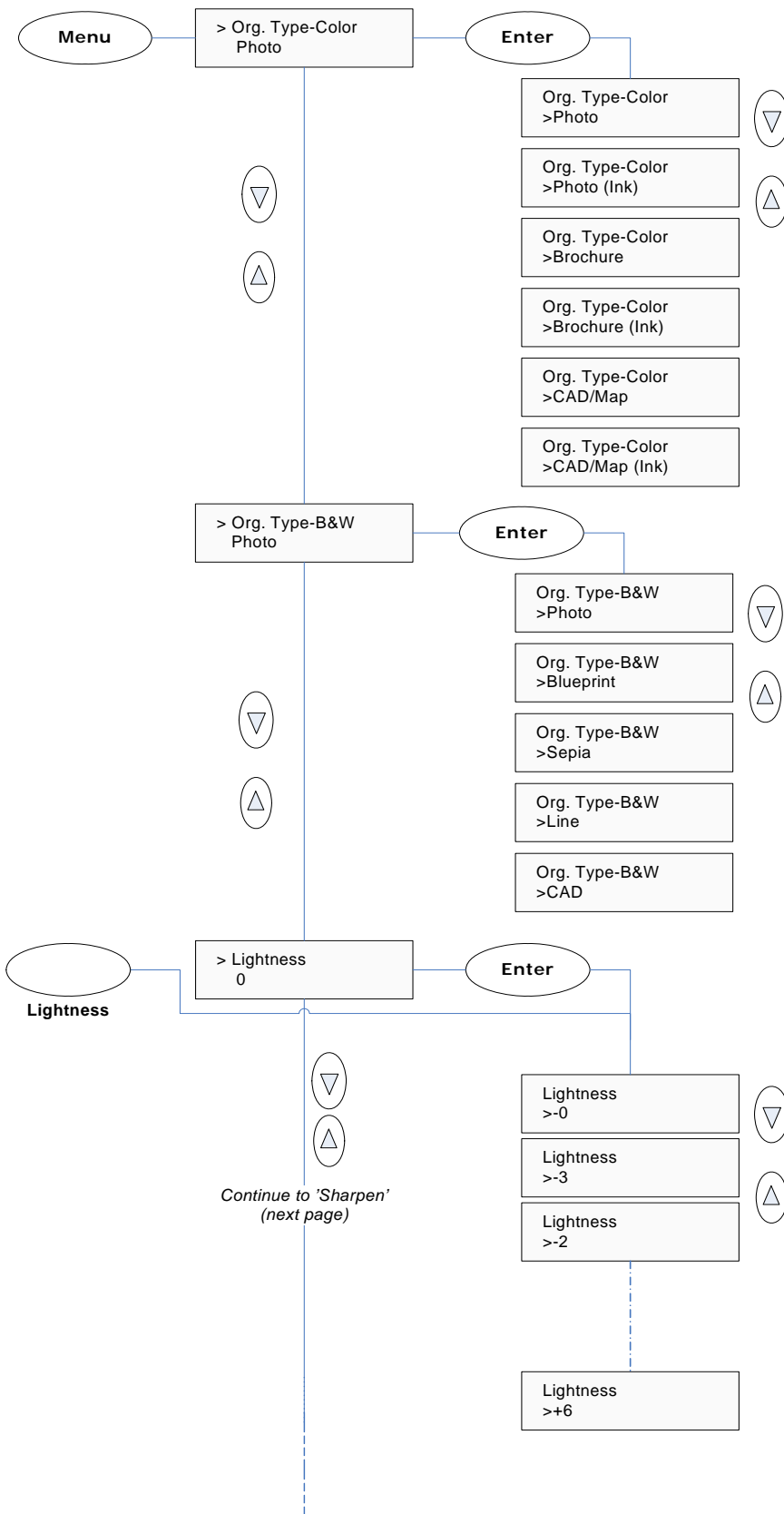
| | |
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|  | first time, this will be the default value. |
| Back  | Navigation Button: for moving one level up when in a menu or for returning to an option's current (active) setting while in the process of editing the option's value. |
| Stop  | Control Button: For turning the scanner ON and OFF in soft power mode and for interrupting and terminating a scan or copy job before it is finished. |

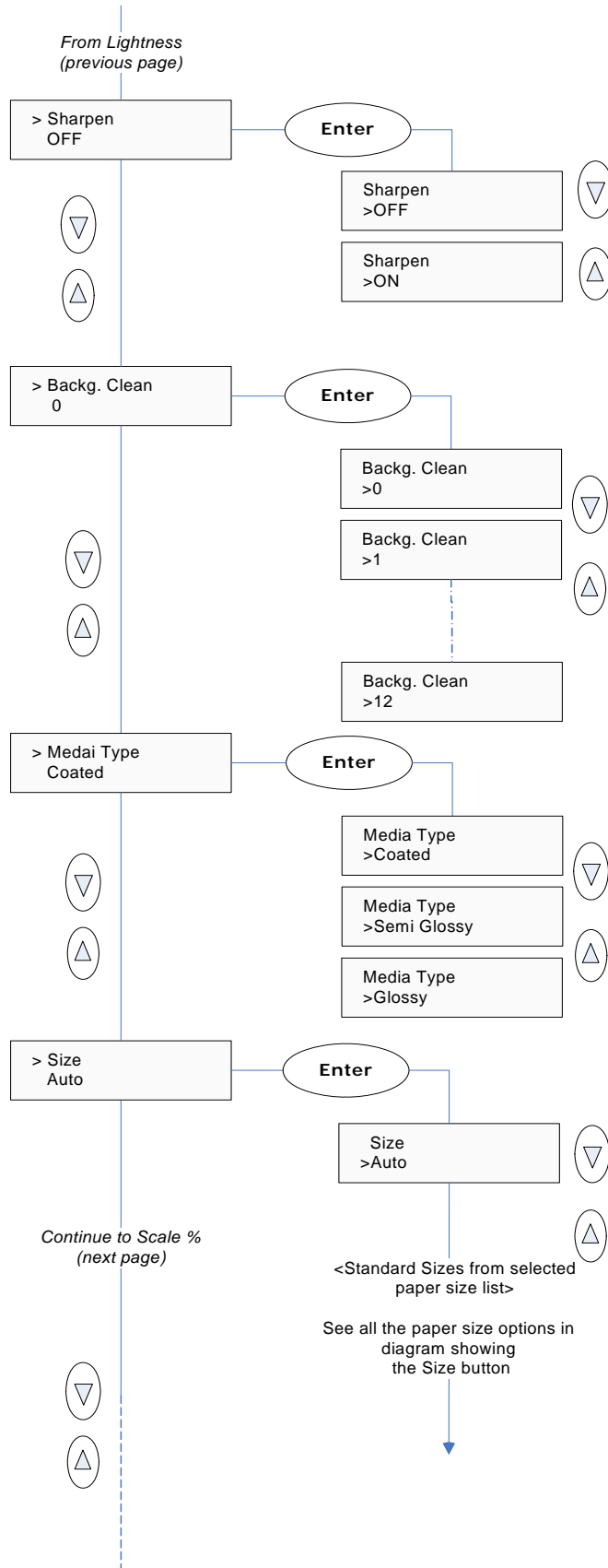
iJET Panel Menu diagrams

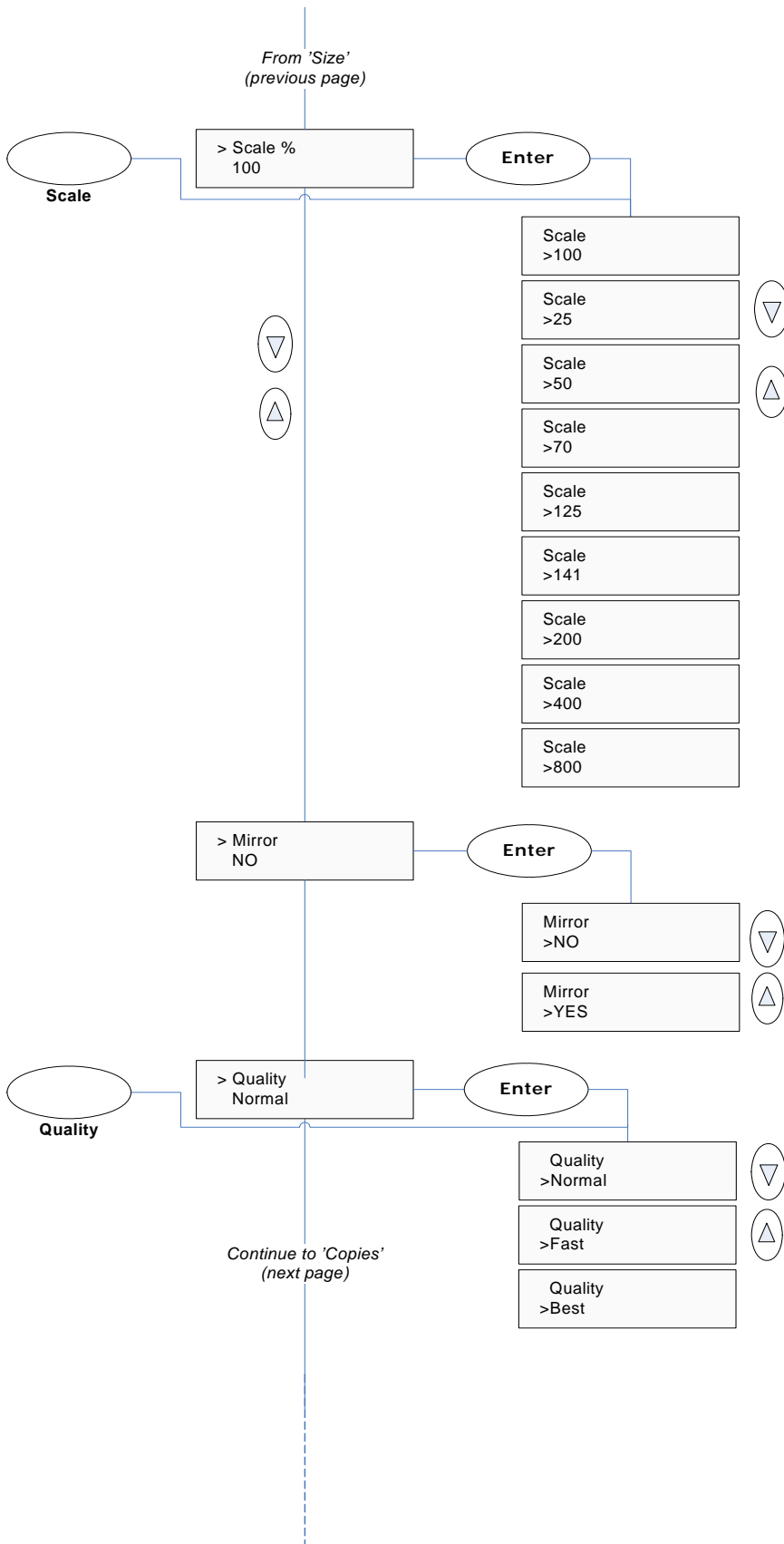
About The menu diagrams:

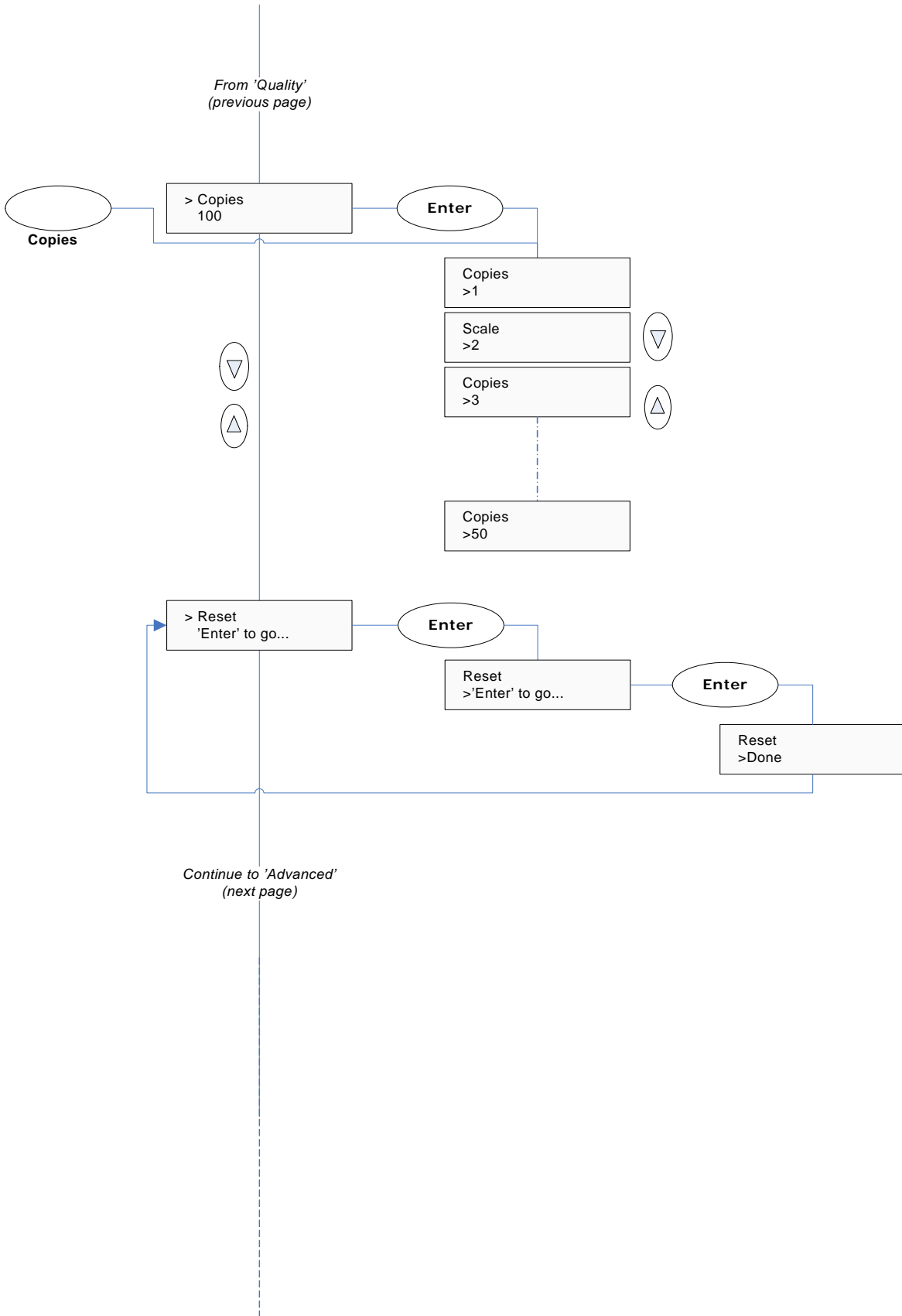
1. The value displayed first is the current value. In the diagrams the factory Default value is shown as the first value as this will be the case until you change it.
2. The **quick buttons** (*Lightness, Scale, Quality, Copies*) are shown as buttons that bypass the option entry point. This means that the quick buttons start their options with the ">" marker already on the value level so you do not need to press *Enter* to start viewing values with the arrow up/down buttons.
3. The **quick buttons** (*Lightness, Scale, Quality, Copies*) can also step through their values by repeated presses to the button (alternative to using arrow up/down). This functionality is not displayed in the diagrams.
4. When you have set an option, you need to press *Enter* to accept it. This is not shown in the diagrams.
5. A complete menu option reference table including option descriptions, menu paths and descriptions of available settings follows after the menu diagrams.

Menu Button – Copy Settings

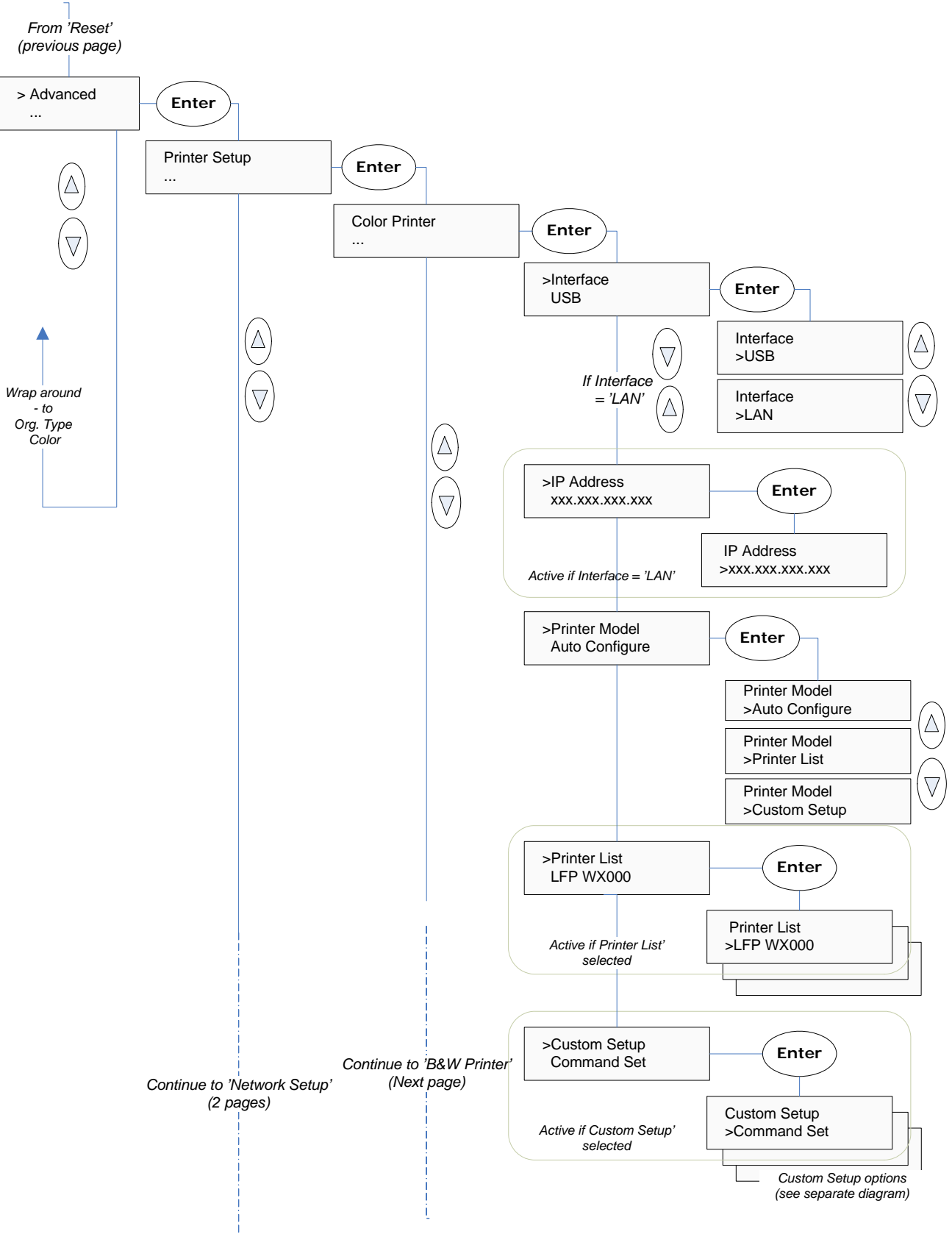


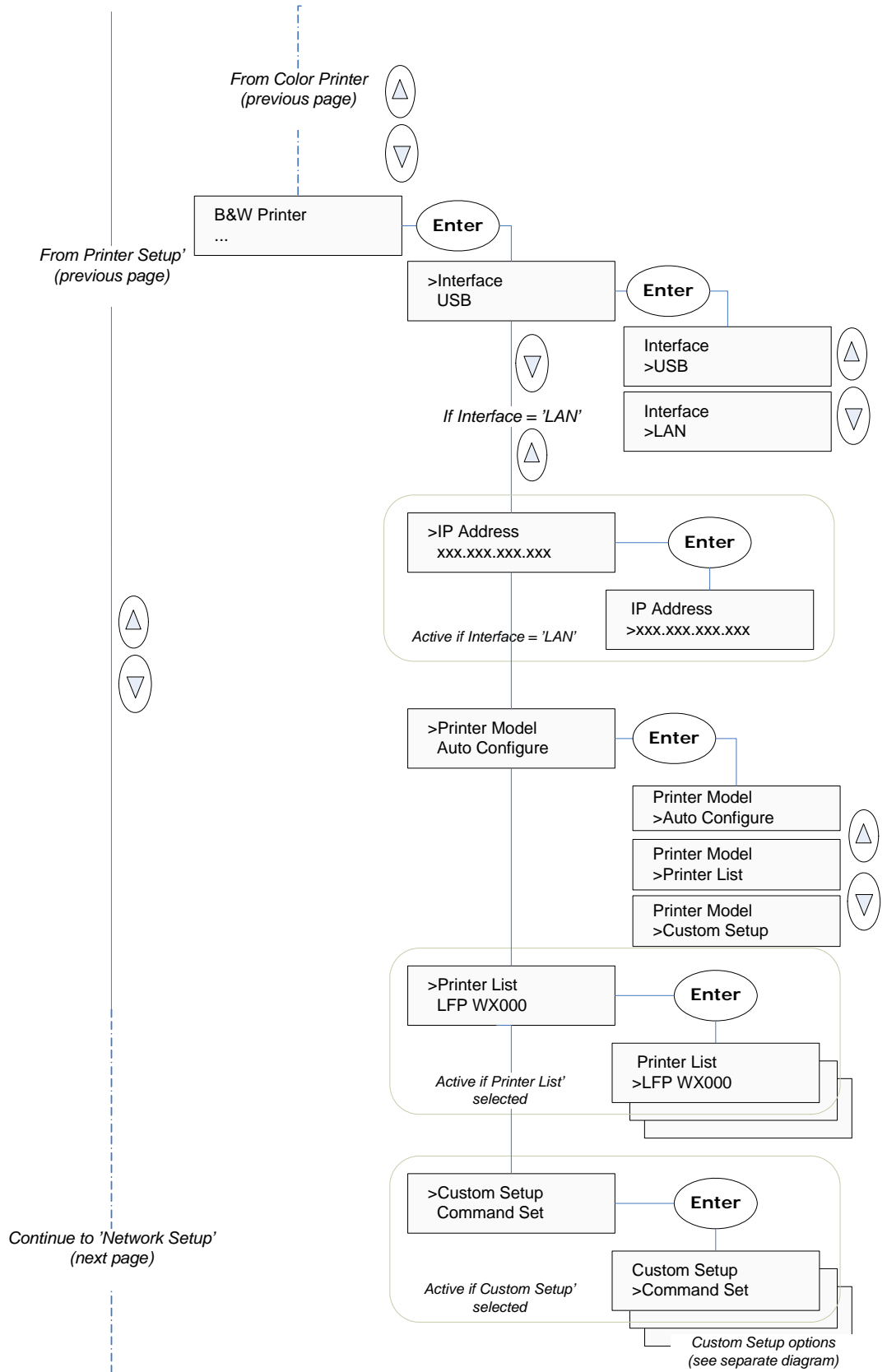


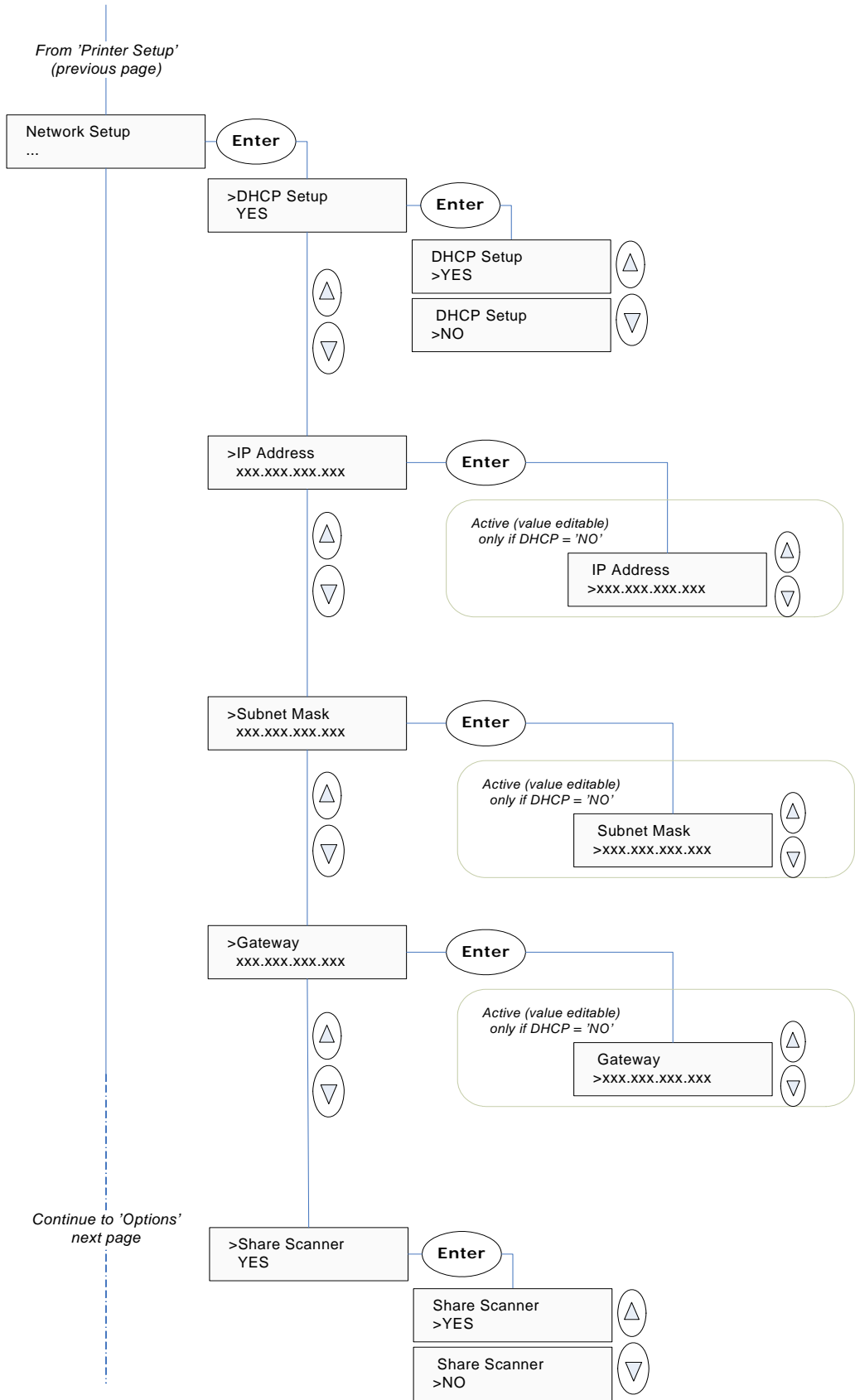


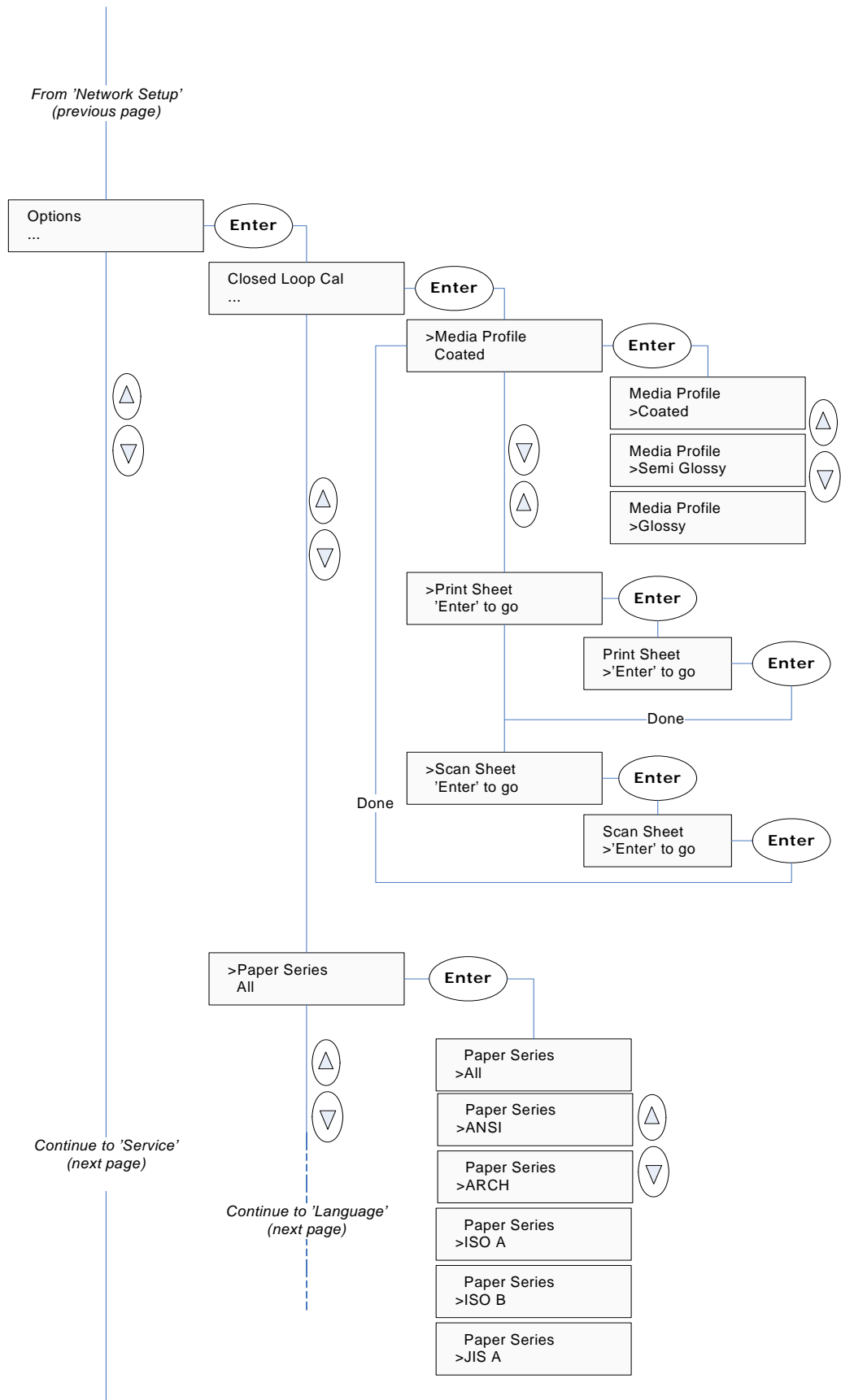


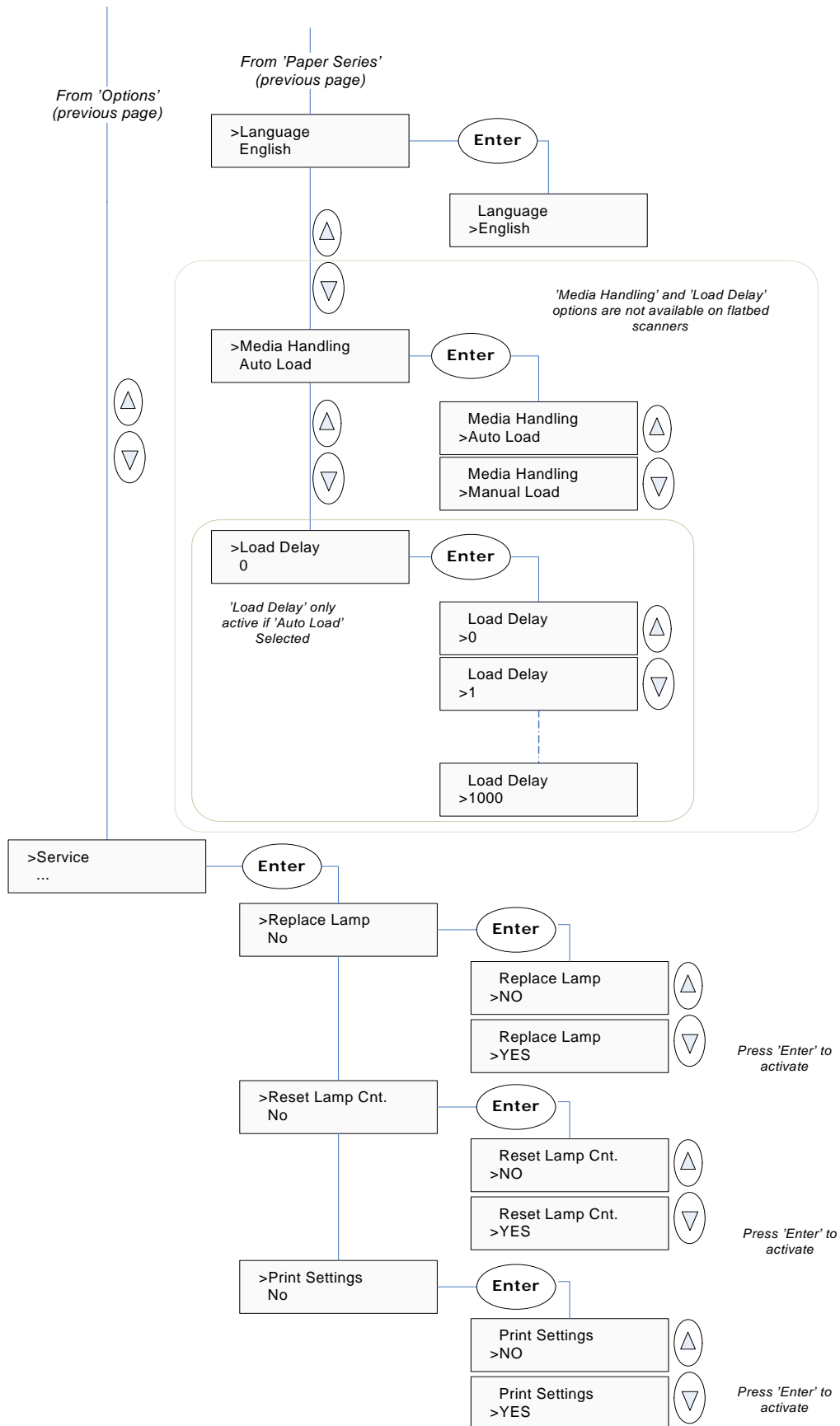
Copy Button – Advanced Menu Settings – System setup Options



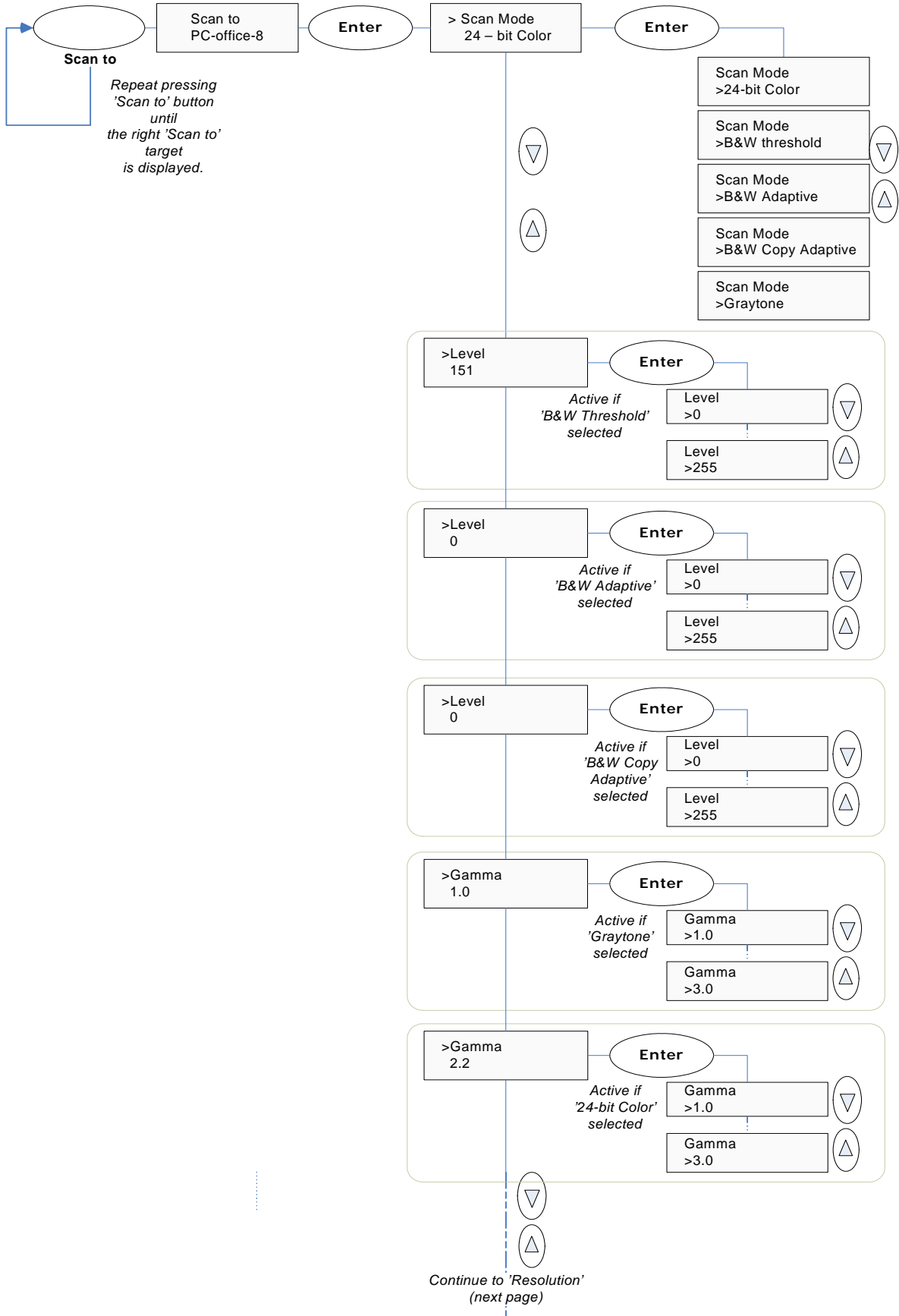


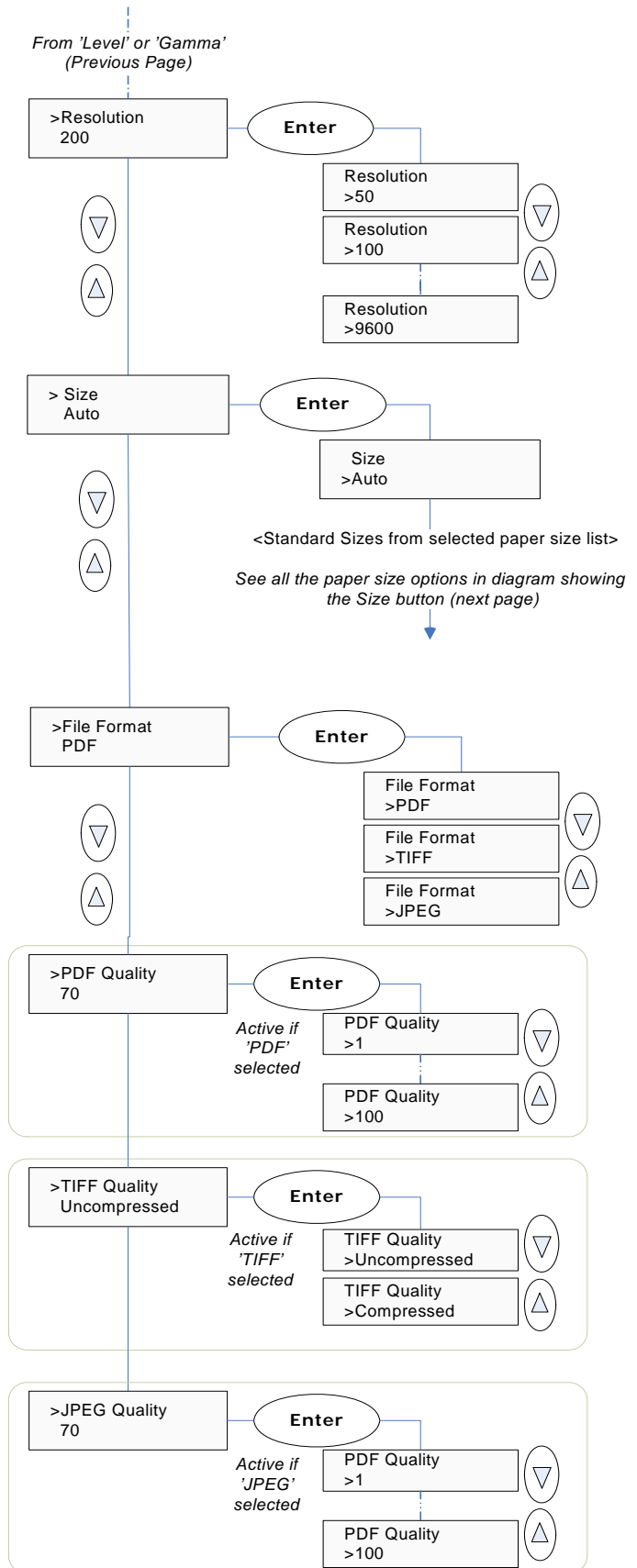




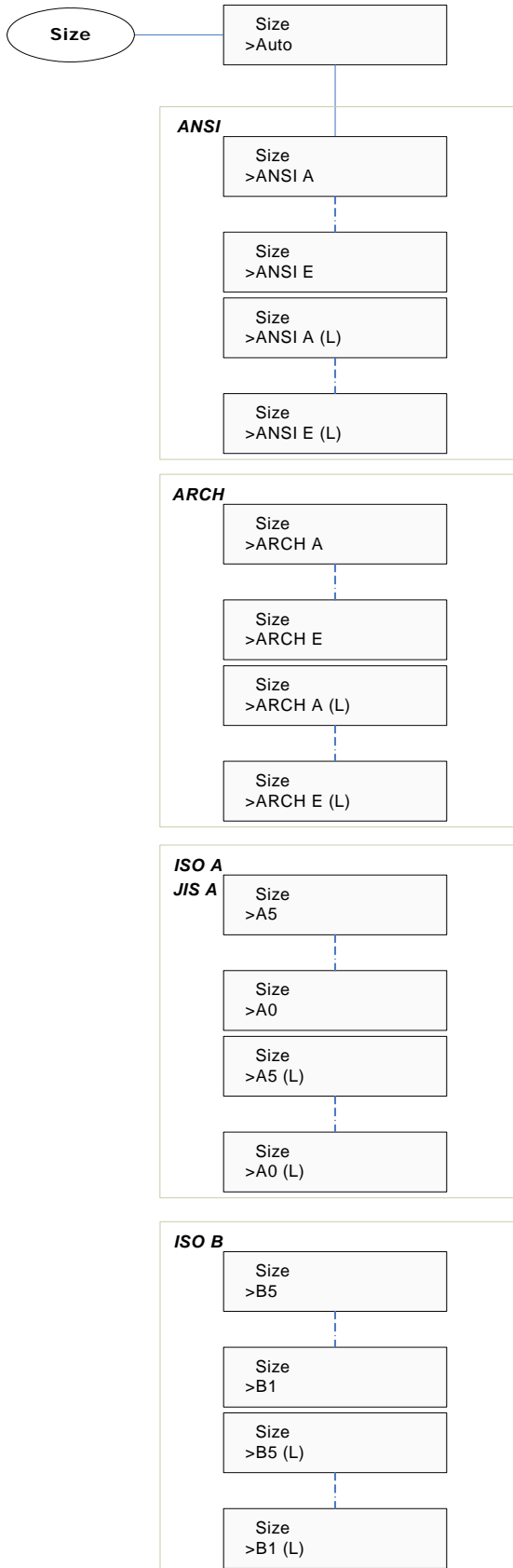


'Scan to' button – Scan-to-file Settings





The Size Button



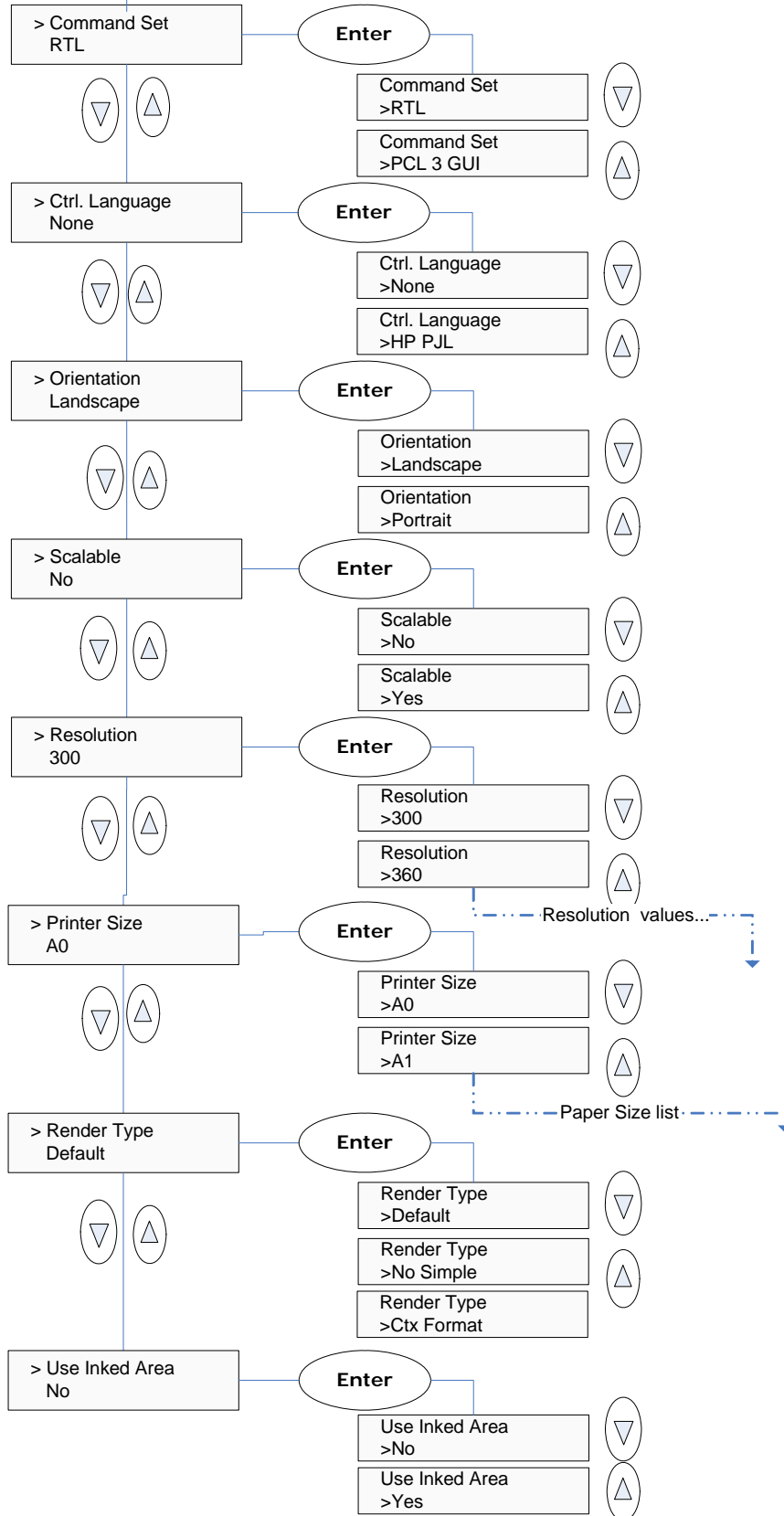
This diagram shows the complete list of available Paper Size sets.

Which of the Paper Size sets that are actually displayed from the Size button and menus, depend on your selection in:

Menu button – Advanced – Options – Paper Series.

Diagram - Custom Setup (Printer Model)

From Printer Setup > Color Printer > Printer Model > Custom Setup
 or Printer Setup > B&W Printer > Printer Model > Custom Setup
 (previous diagram showing "Printer Setup")



Option Description Tables

Menu Button - Copy Settings

This menu entry contains options related to image capture when copying. These are the most common settings when making copies.

To reach the *Copy Settings*:

1. Press the *Menu* panel button.
2. The first copy settings option will be displayed.
3. Use the arrow up/down buttons to move through the options.

| Option | Description | Settings | Description of Settings |
|----------------------------|--|--|---|
| Org. Type – Color | For color copy jobs. The Org. Type relates to controlling image capture. Select the original type that best describes the document you want to copy. | <i>Photo, Photo (ink), Brochure, Brochure (Ink), CAD/Map, CAD/Map (Ink)</i> Default: <i>Photo</i> | <ul style="list-style-type: none"> • Photo - For reproducing photographs and posters. • Photo (Ink) For reproducing photographs and posters from originals created (printed) with an inkjet printer. • Brochure – For documents containing both photos and text. • Brochure (Ink) – For documents containing both photos and text from originals created (printed) with an inkjet printer. • CAD/Map - Suitable for color CAD drawings, maps and graphics with a high level of detail. • CAD/Map - Suitable for color CAD drawings, maps and graphics with a high level of detail from originals created (printed) with an inkjet printer. |
| Org. Type – B&W | For B & W copy jobs. The Org. Type relates to controlling image capture. Select the original type that best describes the document you want to copy. | <i>Photo, Blueprint, Sepia, Line, CAD</i> Default: <i>Photo</i> | <ul style="list-style-type: none"> • Photo - Suitable for photographic images that contain many shades of gray. • Blueprint – Suitable for Blueprint and other originals with heavily distorted foregrounds and backgrounds. The shades that create image noise are close to the shades that represent the image's data and the two are hard to differentiate. • Sepia – Suitable for Sepia and other originals with heavily distorted foregrounds and backgrounds where the shades that create image noise are close to the shades that represent the image's data and the two are hard to differentiate. • Line - For copying clean and clear line drawings and text. Takes advantage of B&W thresholding • CAD –Suitable for black and white CAD drawings and graphics with a high level of detail. |
| Lightness | To make the copy lighter or darker and compensate for dull or faded originals. This menu option can also be reached and set with the <i>Lightness quick button</i> . You can press the button to change values. | <i>-6 to +6</i> Default: <i>0</i> | The default Lightness value is set to zero which works well with most documents. Values +1 to +6 will make the copy lighter in relation to the original and values -1 to -3 will make the copy darker in relation to the original. |
| Sharpen | To give your copy sharper lines. The Sharpen filter identifies edges in the image and intensifies them. You can use the Sharpen option with both Color Copying and B&W Copying and with all original | <i>Off, On</i> Default: <i>Off</i> | When set to ON, the option will apply the Sharpen filter when you press either the Color Copy or B&W Copy button. |

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| | types. | | |
| Backg. Clean | Used for copying originals with backgrounds that are not as completely white as you would like it to appear in the copy. | 0 to 12 Default: 0 | The setting is a "cutoff" point. Pixels with a lightness under the point are affected. The higher the Backg. Clean value, the larger the range of pixels that will be turned to white. You can define cutting points from 0 to 12. The default value is zero (no effect). |
| Media Type | To indicate what kind of paper you have in the printer so the system will optimize for optimal color matching in relation to the media type (paper) the image will be printed on. | Coated, Semi Glossy, Glossy Default: <i>Coated</i> | Select the media type that matches that in your printer. If your system does not already have a Media Profile for the media in your printer, then you must create a new Media Profile through Menu – Advanced – Options – Closed Loop Cal. – Media Profile. |
| Size | The Size value determines the scan area. Usually this would be the size of the original unless you wish only to input a portion. The <i>Size</i> button will activate this same option. This menu option can also be reached and set with the <i>Size quick button</i> . | <i>Auto</i> , <i>Standard sizes</i> Default: <i>Auto</i> | You can select <i>Auto</i> detection or a standard size setting. <i>Auto</i> will detect the edges of the original and set the scan area to the full original size. Size is a global system variable that can be changed with the <i>Size</i> button, the <i>Menu</i> button > <i>Size</i> option and the <i>Scan-to</i> button > <i>Size</i> option. |
| Scale | To enlarge or reduce the Size in your output copy. This menu option can also be reached and set with the <i>Scale quick button</i> . You can press the button to change values. | 25 to 800 Default: 100 | The Scale value is defined as a percent (factor) of the original. 100% means that the copy inherits the original's size. Under 100% means it is reduced Over 100% means it is enlarged. The scaling factor can be selected from a list of predefined factors and these can be fine tuned to create custom scale factors. |
| Mirror | Mirroring the image | Yes, No Default: <i>No</i> | When set to <i>Yes</i> the result image will be mirrored. |
| Quality | To determine the output quality. This menu option can also be reached and set with the <i>Quality quick button</i> . You can press the Quality button until the LED for the Quality setting you want to use lights up. | <i>Fast</i> , <i>Normal</i> , <i>Best</i> Default: <i>Normal</i> | The best quality will take the longest to output and use the highest amount of ink on inkjets. You may want to use the Fast quality setting for test copies. You can see which of the quality settings is active by the LEDs above the Quality button. |
| Copies | To make multiple copies of the original in the scanner. This menu option can also be reached and set with the <i>Scale quick button</i> . You can press the button to change values. | 1 to 50 Default: 1 | |

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| Reset | To reset to the copy default values that came with your system. These will work well with the most common copy jobs. The Reset option is useful if you have made a number of special settings for a copy job and want to restore all copy settings at once and thus reset the system for yourself or for other users. | <i>Enter to Go</i> | Press Enter to reset the system to the copy default values. Copy settings that return to their default values are: Lightness, Copies, Scale, Quality, Size, Mirror, Sharpen, Backg. clean. Copy settings that retain their values even after <i>Restore</i> are: Org. Type Color, Org. Type BW, Media Type Advanced system options, such as network setup and printer setup are not changed after <i>Restore</i> . |
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Menu Button – Advanced Menu Settings – System Setup Options

This menu entry contains options related to the system. Normally you will only make these settings once when setting up and configuring the system. Many of these settings would be performed by the system administrator and not by system users.

To reach the *Advanced Settings*:

1. Press the *Menu* panel button.
2. The first copy settings option will be displayed.
3. Use the arrow up/down buttons to move through the options until you see *Advanced ...* in the display.
4. Press *Enter*.

| Option | Description | Settings | Description of Settings |
|---|--|--|--|
| Printer setup -> | | | |
| Printer Setup -> Color Printer -> Interface | To select the printer to use with the scanner for color copying. Output will go to this printer when you press the <i>Color Copy</i> button. | <i>USB,</i> <i>LAN</i> Default: <i>USB</i> | <ul style="list-style-type: none"> • USB – select this option if the printer is connected to the scanner through the USB out port. • LAN – select this option if the printer is connected to the scanner's LAN port or if the scanner is connected to the LAN and printer the printer is on the LAN. In this case you must enter the printer's IP Adresse. |
| Printer Setup -> B&W Printer -> Interface | To select the printer to use with the scanner for B&W copying. Output will go to this printer when you press the <i>B&W Copy</i> button. | <i>USB,</i> <i>LAN</i> Default: <i>USB</i> | <ul style="list-style-type: none"> • USB – select this option if the printer is connected to the scanner through the USB out port. • LAN – select this option if the printer is connected to the scanner's LAN port or if the scanner is connected to the LAN and printer the printer is on the LAN. In this case you must enter the printer's IP Adresse. |
| Printer Setup -> Color Printer / B&W Printer -> Printer Model And Printer Setup -> B&W Printer -> Printer Mode | To select the method for setting up options for the actual printer model. | <i>Auto Configure,</i> <i>Printer List</i> <i>Custom Setup</i> | <ul style="list-style-type: none"> • Auto Configure - retrieve the printer's parameters automatically from the printer itself. Only for printers with SNMP support. • Printer List – The right setting for many models are predefined in the scanner and you just select the model name from a list. • Custom Setup – enter the printers parameters manually. (see details below) |

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| <p>Printer Setup -> Color Printer -> Printer Model -> Custom Setup</p> <p>And ...</p> <p>Printer Setup -> B&W Printer -> Printer Model -> Custom Setup</p> | <p>To set the printer parameters for your printer model. Recommended parameters for specific models can be viewed on the scanner manufacturer's website. The list contains printer models that are considered to be compatible based on their similarity to a printers that have actually been tested. The list will be updated as new models are tested and enter the market.</p> <p>If your printer is not named on the website list, you can try to use the printer's documentation to determine the right settings. Please note however that unlisted printers may not be compatible with the scanner.</p> | <p><i>Command Set, Ctrl. Language, Orientation Scalable, Resolution, Printer Size, Render Type, Use Inked Area</i></p> | <ul style="list-style-type: none"> • Command Set - This is the printer's format language – choose <i>RTL</i> or <i>PCL3GUI</i> • <i>Ctrl. Language</i> - The control language is used by the system when it applies some of the others settings, such as resolution, size, etcetera. Select <i>None</i> or <i>HP PJI</i>. • Orientation – The feeding orientation for printer. On most large format printers this will be landscape while on some of the narrower models it will be Portrait. • Scalable - 'No' means that the scanner will take care of scaling before sending data to the printer. 'Yes' means that the printer will take care of scaling. • Resolution –This is the the printer's fixed resolution. • Printer Size - The printer is defined to be of a certain max standard size - A0, A2 etcetera. • Render Type - Scan to print data protocol. See the lists to find the right selection for your printer. • Use Inked Area – 'Yes' means that the printer will cut the output by looking at the area that was actually printed. 'No, means to use the whole paper size to determine the place to cut. |
| <p>Network Setup -></p> | | | |
| <p>Network Setup -> DHCP Setup</p> | <p>To determine if the scanner is to be recognized on the network through DHCP or manually.</p> | <p>Yes, No, Default: Yes</p> | <ul style="list-style-type: none"> • Select <i>Yes</i> if your network support DHCP and if you want to automatically assign an IP address for the copy scanner. • Select <i>No</i> to assign an IP address manually (see next three options). |
| <p>Network Setup -> IP Address</p> | <p>To set the device IP Address. Needed only for manual setup (DHCP = No).</p> | <p><i>IP Address (12 digit value)</i></p> | <p>Consult your network administrator for the correct IP address and enter the digits. Use the up/down arrow to change a digit's value and the right/left arrows to move to the next digit you want to set.</p> |
| <p>Network Setup -> Subnet Mask</p> | <p><i>Subnet Mask</i> is a mask used to determine what subnet an IP address belongs to Needed only for manual setup (DHCP = No).</p> | <p><i>Subnet Mask(12 digit value)</i></p> | <p>Consult your network administrator for the correct values. Use the up/down arrow to change a digit's value and the right/left arrows to move to the next digit you want to set.</p> |
| <p>Network Setup -> Gateway Address</p> | <p><i>Gateway address</i> is the IP address of a network point that acts as an entrance to another network. Needed only for manual setup (DHCP = No).</p> | <p><i>IP Address (12 digit value)</i></p> | <p>Consult your network administrator for the correct Gateway (IP) address and enter the digits. Use the up/down arrow to change a digit's value and the right/left arrows to move to the next digit you want to set.</p> |
| <p>Network Setup -> Share Scanner</p> | <p>To set your scanner so it can be used for scanning from PC stations on the network.</p> | <p>Yes, No Default: Yes</p> | <p>This requires that you have setup the scanner to be recognized on the network as described in the previous 4 options and there are compatible scan and copy software plus drivers installed on the network PCs.</p> |
| <p>Options -></p> | | | |

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| Options -> Closed Loop Cal. -> Media Profile | <p>This is step nr. 1 in the Media Profile creation process. Here you select the name/type of media in the printer.</p> <p>Media Profile creation is to ensure color matching. A Media Profile is a unit that stores data that matches scanner and printer colors on a given media.</p> | <p><i>Coated</i> <i>Semi Glossy</i> <i>Glossy</i></p> <p>Default: <i>Coated</i></p> | <p>Select the name that matches the media in the printer and press Enter to confirm.</p> <p>The three steps for media type creation are:</p> <ul style="list-style-type: none"> • Select the media type • Print the system's closed loop sheet. (see below) • Load and Scan the system's closed loop sheet. (see below) |
| Options -> Closed Loop Cal. -> Print Sheet | <p>This is step nr. 2 in the Media Profile creation process. Here you print the systems internal color patch closed loop calibration sheet in order to output colors as they are seen on the printer and printing media.</p> | <p><i>'Enter' to go</i></p> | <p>Press <i>Enter</i> to start printing the sheet</p> |
| Options -> Closed Loop Cal. -> Scan Sheet | <p>This is step nr. 3 in the Media Profile creation process. Here you scan the color patch closed loop calibration sheet you printed in step 2 (above), in order to let the scanner match its color interpretation to the colors on the sheet.</p> | <p><i>'Enter' to go</i></p> | <p>Load the sheet into the scanner. Press <i>Enter</i> to start scanning the sheet</p> |
| Options -> Paper Series | <p>Depending on your location and business, you may usually work with a specific standard paper series. With this option you tell the system which paper series to display when you set the Size (input size) option. You can also tell the system to always display all the paper series' in the system.</p> | <p><i>All,</i> <i>ANSI</i> <i>ARCH</i> <i>ISO A</i> <i>ISO B</i> <i>JIS A</i></p> <p>Default: <i>All</i></p> | <ul style="list-style-type: none"> • Select the paper series that fits your location and business. • Select <i>All</i> if your business uses more than one of the paper series'. |
| Options -> Language | <p>To select the language you want displayed in the IJET Panel's menus.</p> | <p><i>English,</i></p> <p><i>(other languages will be added to the list with future firmware upgrades)</i></p> | <ul style="list-style-type: none"> • Select the language. |
| Options -> Media Handling (not available on flatbed scanners) | <p>Determine how you want paper to be loaded.</p> | <p><i>Auto Load,</i> <i>Manual Load</i></p> <p>Default: <i>Auto Load</i></p> | <ul style="list-style-type: none"> • <i>Auto Load</i> - the scanner will pull the original into the scanner when you feed it into insertion slot. • <i>Manual Load</i> - you position the original in the slot and press the paper forward button to feed it into the scanner. |

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|---|---|---------------------------------|--|
| <p>Options -> Load Delay (not available on flatbed scanners)</p> <p>This option is active if Media Handling (above) is set to <i>Auto Load</i>.</p> | <p>Set a delay factor for <i>Auto Load</i>.</p> | <p>0-1000</p> <p>Default: 0</p> | <ul style="list-style-type: none"> Set a delay factor value - the scanner will use the value to determine how long it waits before it pulls the original into the scanner. The option is used to give you time to position and align the paper for a straight path. |
| <p>Service -></p> | | | |
| <p>Service -> Replace Lamp (available on flatbed scanners only)</p> | <p>To move the lamp to a position at the slide-door opening at the back of a flatbed scanner so the lamp can be pulled out and removed.</p> | <p><i>'Enter'</i> to go</p> | <p>Press <i>Enter</i> to position the lamp. You can open the scan area cover to see the lamp moving into position. Wait until you hear the motor stop before attempting to remove the lamp.</p> |
| <p>Service -> Reset Lamp Cnt.</p> | <p>For all scanners. For resetting the flag that tells users when it is time to replace the lamp.</p> | <p><i>'Enter'</i> to go</p> | <p>Press <i>Enter</i> if you have just replaced the lamp with a new one. The internal flag will be reset to zero and from there keep track of scanner lamp usage.</p> |
| <p>Service -> Print Settings</p> | <p>Print out all your system's iJET panel settings in order to review them.</p> | <p><i>'Enter'</i> to go</p> | <p>Press <i>Enter</i> to start the printout.</p> |

Scan to Button – Scan-to-file Settings

This menu entry contains options related to image capture when scanning to a file.

To reach the *Scan-to-file Settings*:

1. Repeat presses to the **Scan to** panel button until the right scan target is displayed.
2. Press *Enter* to confirm and accept the scan target.
3. The first of the Scan-to-File settings options (*Scan Mode*) will be displayed.
4. Use the arrow up/down buttons to move through the options and *Enter* edit them.

| Option | Description | Settings | Description of Settings |
|--|--|--|--|
| Scan Mode | For defining the type of image processing to be used during scanning. | <i>B&W Threshold, B&W Adaptive, B&W Copy Adaptive, Graytone 24 bit Color</i> Default: <i>24 bit Color</i> | <ul style="list-style-type: none"> • B&W Threshold - use thresholds to determine whether a pixel is black or white. Use this mode for drawings and line art. You can set the threshold value (Level). • B&W Adaptive - Suitable for scanning all kinds of drawings including difficult blueprints, brown transparencies (sepias), etc. You set Adaptive level. • B&W Copy Adaptive - enhancement on foreground and background. This mode is suitable for copying (scan and print) of Sepia, Blueprint and other originals that could be improved by clarifying foreground and background. • Graytone - 256 gray levels are recognized for each pixel. Creates good reproductions of complicated B/W images like B/W photos. • 24 bit Color - true color mode for capturing all of the image's colors with the closest reproduction. Produces large files. For reproduction of complicated color images like color photos and posters. You can make tonal adjustments through a Gamma value. |
| <p>Adjustment Options for the <i>Scan Mode</i>: The following 5 options are adjustment settings for the <i>Scan Mode</i> described above. There is one adjustment setting option for each Scan Mode and so only one of the 5 options below will be displayed in the panel and enabled for changing.</p> | | | |
| Level (Active if <i>Scan Mode</i> is set to B&W Threshold) | For setting the threshold value when the Scan Mode is <i>B&W Threshold</i> . | <i>0 – 255</i> Default: <i>151</i> | When scanning at a specific threshold value, all gray tones below the threshold will be represented as black pixels, and all gray tones above will be represented as white pixels. |
| Level (Active if <i>Scan Mode</i> is set to B&W Adaptive) | For setting the amount of adaptive processing when the Scan Mode is <i>B&W Adaptive</i> . | <i>0 – 255</i> Default: <i>0</i> | The Level works like a threshold - the lower the value, the more of the background is picked up during scanning. |
| Level (Active if <i>Scan Mode</i> is set to B&W Copy Adaptive) | For setting the amount of adaptive processing when the Scan Mode is <i>B&W Copy Adaptive</i> . | <i>0 – 255</i> Default: <i>0</i> | The Level works like a threshold - the lower the value, the more of the background is picked up during scanning. Adaptive enhancement features are automatically applied. You only have to adjust the adaptive "Level" to determine the best degree of enhancement processing for your specific image. |
| Gamma (Active if <i>Scan Mode</i> is set to Graytone) | For tuning gray shades when scanning to file in the <i>Graytone</i> mode. | <i>0.1 - 3.0</i> Default: <i>1.0</i> | Pixels are intensified according to a gamma curve they are mapped to. A low gamma value smaller than 1.0 darkens the output while a high gamma value larger than 1.0 typically lightens the shadow areas and brings out detail. |
| Gamma (Active if <i>Scan Mode</i> is set to 24-bit Color) | For tuning colors when scanning to file in the <i>24-bit Color</i> mode. | <i>0.1 - 3.0</i> Default: <i>1.0</i> | Pixels are intensified according to a gamma curve they are mapped to. A low gamma value smaller than 1.0 darkens the output while a high gamma value larger than 1.0 typically lightens the shadow areas and brings out detail. |

| | | | |
|--------------------|---|--|--|
| Resolution | Setting image quality in DPI (dots per inch) | 50 to 9600 | Select a value from the list of values available. High resolutions create large files. 300 dpi or more is adequate for printing. Certain maps and CAD drawings with high levels of detail require high resolutions. CAD processing of the result may also require that you select a high resolution. Dpi value settings below or equal to the scanners optical dpi will give pure optical resolutions without interpolation. See your scanner model specifications to view the scanner's optical resolution. |
| Size | <p>The Size value determines the scan area. Usually this would be the size of the original unless you wish only to input a portion. The <i>Size</i> button will activate this same option.</p> <p>This menu option can also be reached and set with the <i>Size quick button</i>.</p> | <p><i>Auto</i>, <i>Standard sizes</i></p> <p>Default: <i>Auto</i></p> | <p>You can select <i>Auto</i> detection or a standard size setting. <i>Auto</i> will detect the edges of the original and set the scan area to the full original size.</p> <p>Size is a global system variable that can be changed with the <i>Size</i> button, the <i>Menu</i> button > <i>Size</i> option and the <i>Scan-to</i> button > <i>Size</i> option.</p> |
| File Format | To select the best file format for your task. | <p><i>JPEG</i>, <i>TIFF</i>, <i>PDF</i></p> <p>Default: <i>PDF</i></p> | <ul style="list-style-type: none"> • <i>JPEG</i> – If selected you can set a quality factor from 1 to 100. 70 is default. • <i>TIFF</i> – If selected you can set quality to <i>Uncompressed</i> or <i>PackBits</i>. • <i>PDF</i> – If selected you can set a quality factor from 1 to 100. 70 is default |