MICROTEK

DUOSCAN T2500HiD
MRS-2500DLF

Image Scanner

User's Manual

Contents

1 Introduction

Congratulations on your purchase of the ArtixScan 2500F scanner! The dual interface (SCSI and FireWire), single-pass, 42-bit high-resolution ArtixScan 2500F is specifically designed and engineered for professionals and prepress need. This manual will help you in the installation and operation of your scanner. The information provided covers both Macintosh and PC environments for Windows 98 / 95, as well as Windows NT 4.0. See the notes below on how to use the manual, based on the environment in which you operate.

• If you are operating under the Macintosh environment, go to the *General Installation* section of the manual, then proceed to *Installation on the Macintosh*, then go to *Operating the Scanner*.

• If you are operating under Windows 98 or Windows 95, go to the *General Installation* section of the manual, then proceed to *Installation on Windows 98 / Windows 95*, then go to *Operating the Scanner*.

• If you are operating under Windows NT 4.0, go to the *General Installation* section of the manual, then proceed to *Installation on Windows NT 4.0 and Windows 2000*, then go to *Operating the Scanner*.

The last section of the manual provides information on the Scanner ICC Profiler program, which applies to both Macintosh and PC environments, and shows you how to use the program to ensure the most accurate color for your scanner.

ArtixScan 2500F Scanner

Scanner cover

Horizontal ruler

Vertical ruler

Glass surface

Transparency tray

Power switch
Power LED (green)
Reflective Ready indicator (orange)
Transparency Ready
indicator (orange)

ArtixScan 2500F Scanner

Power connector

FireWire connector

SCSI 25-pin connector

SCSI 50-pin connector

ID switch

2

ON   OFF

Terminator switch
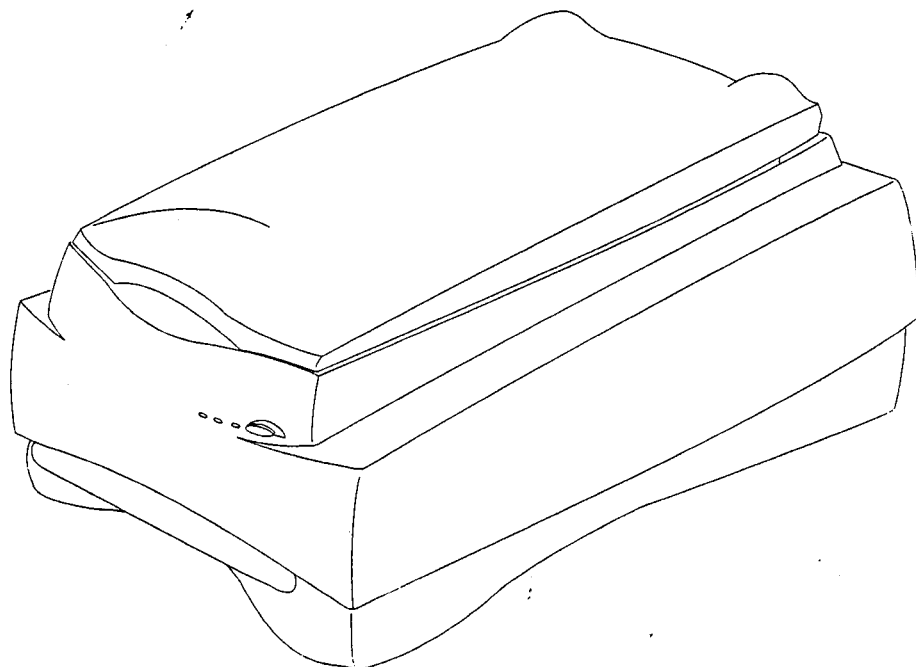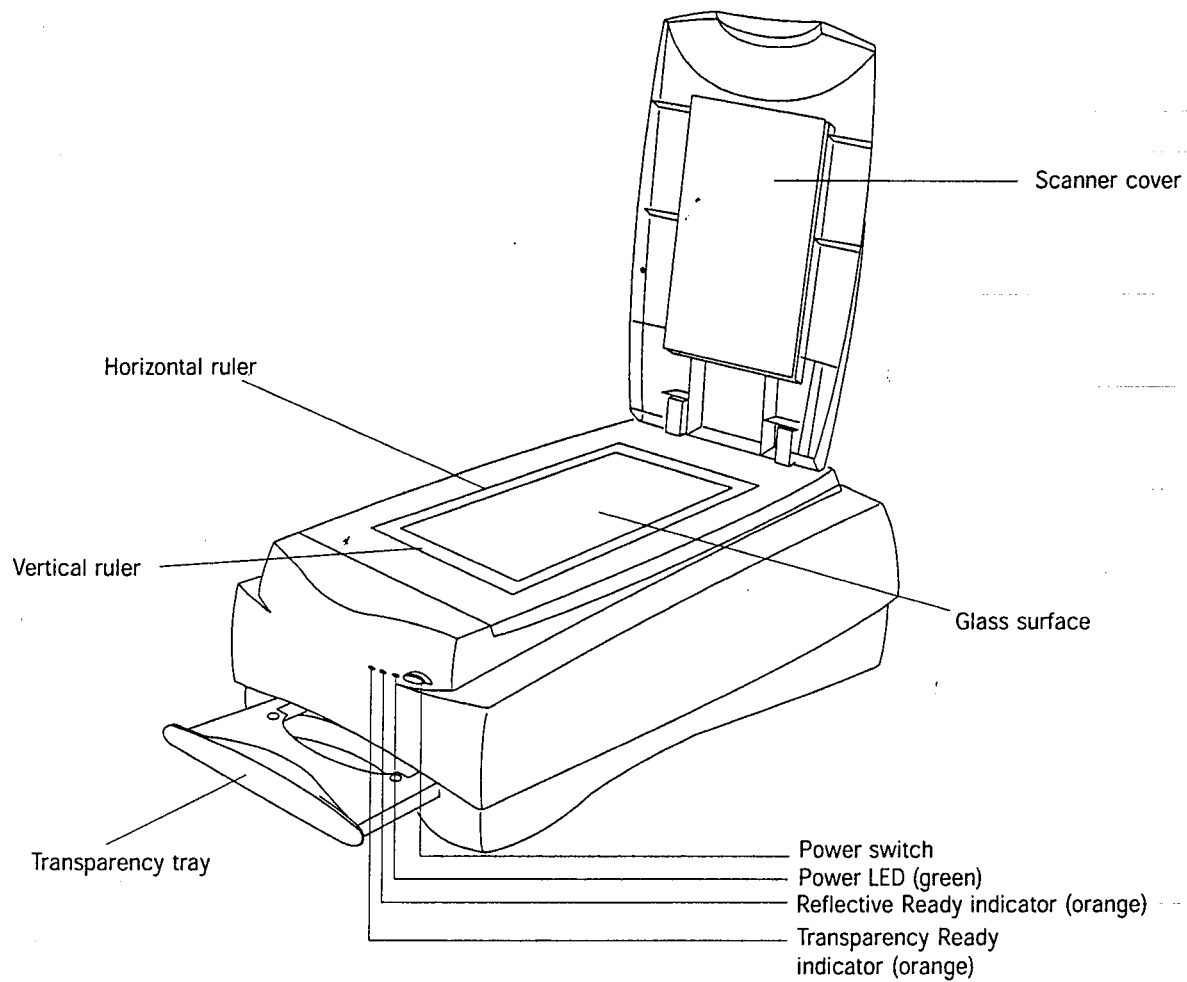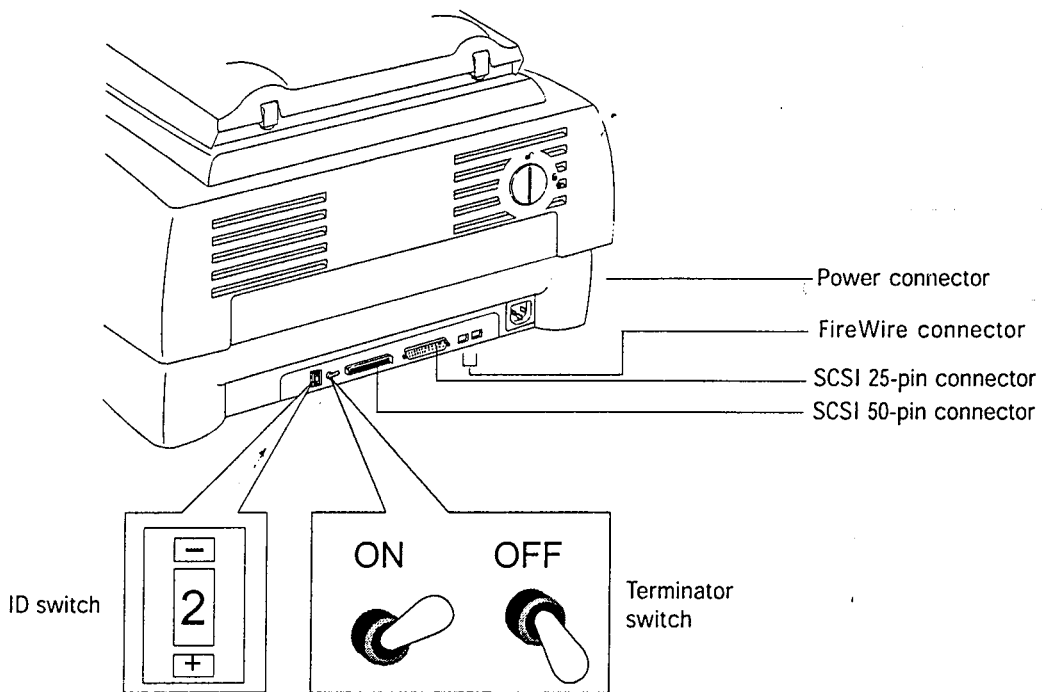
2 General Installation

This section provides information on procedures you need to perform or things to check on your ArtixScan 2500F scanner regardless of the environment in which you operate — whether it is on the Macintosh or on the PC. The general installation procedures cover the following subjects: 1) unpacking your scanner; 2) unlocking the scanner; 3) resetting the scanner's SCSI ID if necessary; 4) powering up the scanner; and 5) choosing your scanning station.

1. Unpacking the Scanner

While unpacking the scanner, inspect the shipping carton for any signs of mishandling or damage. Your scanner's packing carton and padding material has been carefully chosen to prevent damage to the unit in shipping and can withstand a reasonable amount of abuse.

Refer to the package contents checklist included with your scanner to ensure that you received all of the parts necessary for scanner setup. Should you observe any damage or missing parts, contact the shipper and your dealer immediately.

2. Unlocking the Carriage

To prevent damage to the scanner's moving parts, the scanner carriage is locked into place prior to shipment. You must unlock the carriage before powering up the scanner. Failure to do so may damage the scanner and will void your warranty. Follow the unlocking instructions below:

The carriage lock of the ArtixScan 2500F is located on the scanner's left side.

To unlock the carriage, insert a flathead screwdriver or a coin into the locking screw slot and turn the screw a quarter turn counter-clockwise. Once unlocked the screw head will pop out slightly but will remain in the scanner.

Note: The scanner must be relocked prior to any future scanner transportation or relocation.
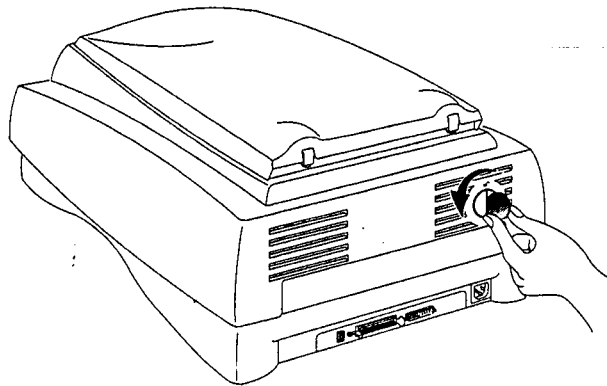
3. Resetting the scanner's SCSI ID

Note: This procedure is provided as a reference, you may or may not need to change the SCSI ID on your scanner.

A SCSI ID is assigned to each SCSI device in your daisy chain to differentiate the devices from one another. The SCSI ID for your Microtek scanner is factory-set to 6.

You do not need to change the SCSI ID on your scanner unless another SCSI device on your system (such as an external hard drive, additional scanner, etc.) is using the same number.

To change the SCSI ID: Locate the SCSI ID switch, then press the upper opening "-" to decrease the SCSI ID number, or press the lower opening "+" to increase the number.

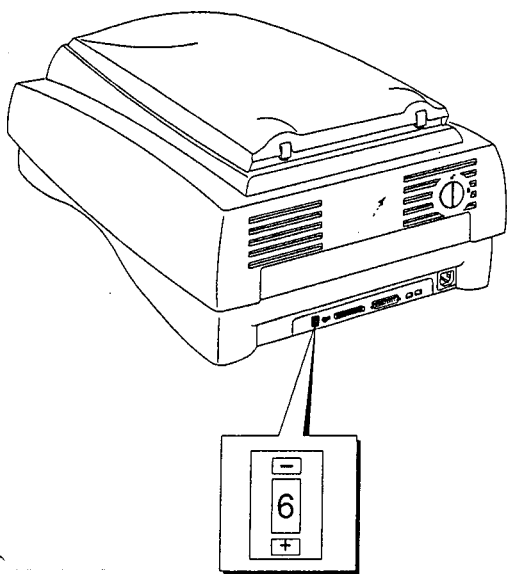Valid SCSI ID numbers are 0 to 6. **Do not use SCSI ID #7, which is used to carry out a self-test for the scanner and make the carriage move back and forth.** SCSI ID #8 and #9 should also not be used.

4. Power-up test

All scanners are factory tested, however, to ensure that your scanner has not been damaged during shipment, the following preliminary power-up test must be performed. Contact your dealer immediately if the scanner is not in proper working condition.

A. Operating Voltage

Your scanner is preset to the voltage in your area. There is no need to manually select the voltage; however, make sure that the label next to the power entry module indicates the correct voltage. Contact your dealer if the label indicates an incorrect voltage.

B. Connecting the Scanner to Power Source

Caution!: Make sure your scanner carriage is unlocked prior to connecting it to a power source (refer to step 2).

Connect the scanner to a voltage source directly by using the supplied power cord; do not use extension cords. Make sure that the power outlet will not be overloaded when the scanner is turned on, and ensure that other devices requiring significant power are not plugged into the same outlet. Ideally, no other devices should share the scanner's power source.

C. Powering up the Scanner

The power switch is located on the scanner's front panel. After verifying that the scanner is plugged into a live outlet, turn on the Power Switch.

D. Observing the Scanner Boot Process

The following sequence of events should take place after power up:

- The scanner performs a self-test by homing the carriages and camera box. Through the platen glass, you will be able to observe the carriage moving, and you will hear a series of clicking noises associated with the operation of the scanner motors. These "clicking" noises are normal. However, if you hear loud grinding noises or any other abnormal sound, turn the scanner off immediately and contact your dealer.

- The two Orange indicator lights located on the front panel will flash, indicating that the scanner is running.

- After the self test is complete, the indicator lights will shine steadily and the fluorescent lamp inside the scanner will light up, indicating that the scanner is ready.

If an error occurs and the scanner is not able to boot up properly, the status indicators will display a steady red light in all three indicators. If this happens, turn the scanner off immediately and contact your dealer.

5. Choosing the Scanning Station

If no errors were encountered and the scanner booted up normally, you are now ready to set it up. Turn off the power switches and disconnect the cord.

Before you choose a location for the scanner, please read the operating environment requirements listed below.

Requirements for the Operating Environment

- Make sure that the operating environment for the scanner is free of dust and other contaminants.

- Allow adequate ventilation space (no less than ten inches) around the scanner.

- Place the scanner on a flat, stable surface that is not subject to vibration.

- Make sure that the scanning surface will not be exposed to direct sunlight or other sources of bright light.

- Avoid placing the scanner close to sources of extreme temperature.

- Try to ensure that the scanner is situated in its ideal operating temperature range — between 50° and 104°F (10° and 40°C).

- Keep the relative humidity in the scanner operating area between 10% and 85%.

- Avoid connecting the scanner to a power source that might experience power surges.

- Avoid positioning the scanner in the path of heavy traffic where it may get bumped.

Once the scanner has been placed in a suitable location and is ready to be connected to the host computer, it is time to proceed to installing the necessary hardware and software components for the scanner. Please go to the appropriate section in this manual for the installation procedures to follow, and perform the procedures corresponding to your environment (Macintosh, Windows 98 /Windows 95, or Windows NT 4.0).

B. Installation for the new G3 macintish computers (without built-in SCSI/FireWire ports)

## 1. Installing the interface card (either SCSI or FireWire)

Before installing the interface card, make sure you turn off your computer and peripherals. Then follow the steps below:

1. Shut down your computer and unplug the power cord. Next, open your computer.

2. Look for an available PCI card slot (typically white or ivory) in your computer. Remove the slot cover, and insert the PCI card into the slot. Push the card in to make sure it is seated all the way in the slot. This is important, as an improper card connection will make you unable to use your scanner, and you will then have to remove the computer case and reinsert the card.

3. Close the computer, then plug the power cord back in.

2. Connecting the scanner

1. Shut down your computer.

2. Connect the scanner to your computer, using the SCSI cable provided in the scanner package.

   *Note: See the next section for details on termination.*
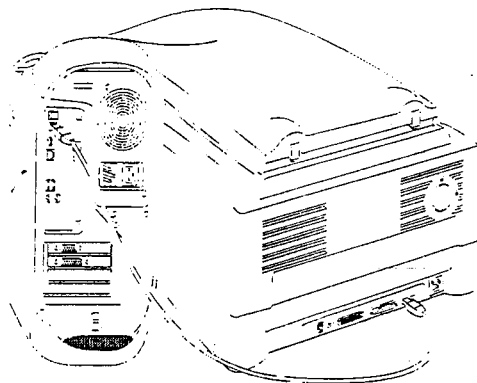
3. Plug the power cord to the power connector at the back panel of the scanner, and plug the other end of the power cord to your AC power source or wall outlet.

4. Turn on your scanner and wait for the lights on the front panel to stop blinking and stay on steady.

5. Power up your Macintosh.

3. Termination

If you are connecting the scanner in a daisy chain to other SCSI devices (such as a CD-ROM drive), take note of the the following:

A. If the scanner is the last device on the SCSI chain, set the internal terminator switch on the back of the scanner to the "ON" position. There is no need to install an external terminator on any of the other SCSI devices on the chain.

ON   OFF
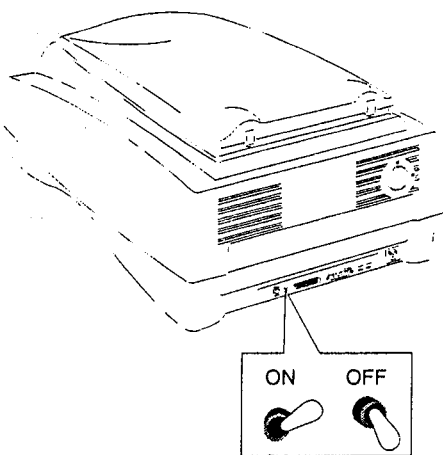
B. If the scanner is not the last device on the SCSI chain:

*   Make sure the internal terminator switch located at the back of the scanner is set to the "OFF" position.

*   Make sure the last device on the SCSI chain is terminated.

C. Installing the software

Install all the software on your ScanWizard Pro CD-ROM, which contains the ScanWizard Pro scanning software, ICC profiles and the Microtek Scanner Profiler™ software for calibrating the ArtixScan 2500F.

To do this, insert the ScanWizard Pro CD-ROM into your CD-ROM drive. When the CD-ROM icon appears on your Macintosh desktop, open the software folders individually, then double-click the Installer icon on each folder to install the respective programs one at a time.

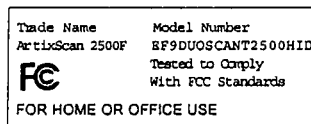# Federal Communications Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

* Reorient or relocate the receiving antenna.
* Increase the separation between the equipment and receiver.
* Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
* Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party: Loi Han
3715 Doolittle Drive
Redondo Beach, CA 90278-1226
U.S.A.
Telephone No: 1-310-297-5000

Trade Name	Model Number
ArtixScan 2500F	EF9DUOSCANT2500HID
FC	Tested to Comply With FCC Standards
FOR HOME OR OFFICE USE	

Federal Communications Commission Interference Statement

This equipment (Model: EF9DUOSCANT2500HID) has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

* Reorient or relocate the receiving antenna.
* Increase the separation between the equipment and receiver.
* Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
* Consult the dealer or an experienced radio/TV technician for help.

Note: 1) A shielded of FireWire interface cable installed on the scanner connector end must be used with this equipment. 2) AC adapter with ferrite core installed on the scanner connector end must be used with this equipment.

Caution: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

MRS-2500DLF; DuoScanT2500HiD Specifications

Scanning Modes	Color, grayscale and black & white in a single scanning pass
	42-Bit Color input and output (approx. 4.3 trillion colors)
	14-Bit Grayscale (approx. 16,384 shades of gray)
	1-Bit Black & White (64 shades of gray simulated)
	Halftone Selections 12 built-in halftone patterns
Scanning area	Normal Resolution: 8.5" x 14" (reflective) Normal Resolution: 8" x 12" (transparency) High Resolution: 4" x 14" (reflective) High Resolution: 4" x 12" (transparency)
Resolution	Optical: 1,250 dpi / 2,500 dpi Interpolated: 10,000 dpi x 10,00 dpi
Dimensions (L x W x H)	26.3" x 18.5" x 10.2" (670 mm x 470 mm x 260 mm)
Weight	48.18 lb (21.9 kg)
Voltage	AC 100V to 240V 47-63 Hz
Environment	Operating Temperature: 10° to 40°C (50° to 104°F) Relative Humidity: 20% to 85%