

UPDATE

3/7/01

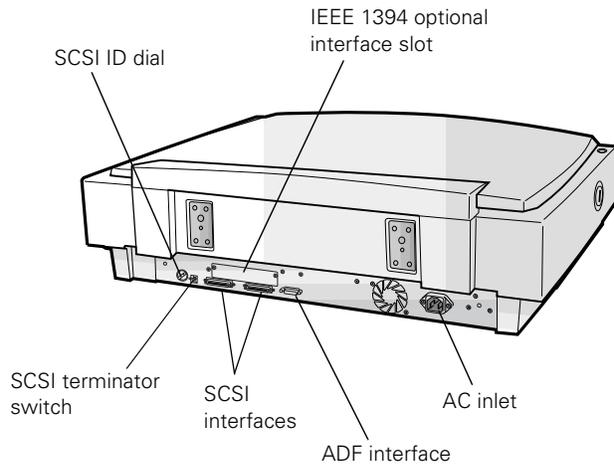
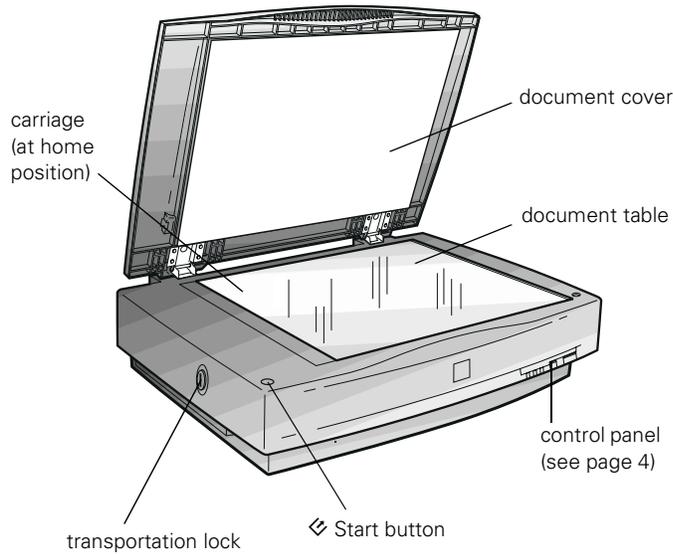
This package provides a new scanner product section to be added to the *EPSON Product Information Guide*. The table of contents of this section is listed below.

EPSON® GT-10000+

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Scanner Parts



Scanner Specifications

Scanner type:	Flatbed, color
Photoelectric device:	Color CCD line sensor
Effective pixels:	7020 dots × 10200 pixels at 600 dpi, 100%
Document size:	11.7 × 17.0 inches (297 × 432 mm) (the reading area can be specified from your software)
Scanning resolution:	600 dpi main 2400 dpi sub with MicroStep Drive technology
Maximum resolution with interpolation:	9600 × 9600 dpi
Output resolution:	50 to 4800 dpi (1-dpi increments)
Color separation:	RGB color filters on CCD
Reading sequence:	Monochrome: 1-pass scanning Color byte sequence: 1-pass scanning (R, G, B) Color line sequence: 1-pass scanning (R, G, B)
Zoom:	50 to 200% in 1% increments
Image data:	36 bits input; 24 bits output (color) 12 bits input; 8 bits output (grayscale)
Scanning speed (600 dpi draft mode):	Color: 4.0 msec/line (approx.) Grayscale: 4.0 msec/line (approx.) Line art: 1.4 msec/line (approx.)
Brightness:	7 levels
Line art settings:	Fixed threshold with Text Enhancement Technology (TET) enabled
Halftoning process:	AAS (Auto Area Segmentation) Enable/disable selectable 3 halftoning modes (A, B, and C) 4 dither patterns (A, B, C, and D) for bi-level and quad-level data (2 downloadable dither patterns) 2 user-defined dither patterns (A, B)

Gamma correction:	2 types for CRT display 3 types for printer 1 user-defined table
Color correction:	1 type for CRT display 3 types for printer output (available in color byte sequence mode and color line sequence mode) 1 type user-defined
Command level:	ESC/I B7
Interface:	SCSI 2 (two 50-pin half pitch [high density] connectors) IEEE 1394 serial bus interface (optional)
Options:	Automatic Document Feeder (ADF) IEEE 1394 serial bus interface
Supported documents:	Opaque documents with smooth surfaces
Light source:	Xenon fluorescent lamp
Reliability:	Main unit MCBF: 100,000 cycles of carriage movements
Dimensions:	Width: 25.8 inches (656 mm) Depth: 18.0 inches (458 mm) Height: 6.9 inches (176 mm)
Weight:	Approximately 46.3 lb (21 kg)

Electrical

Input voltage range:	100 to 120 VAC 220 to 240 VAC; universal auto-switching
Rated frequency:	50 to 60 Hz
Input frequency:	49.5 to 60.5 Hz
Rated current:	100 to 120 VAC: 1.2 A 220 to 240 VAC: 0.7 A
Power consumption:	Approximately 50 W (without ADF) Approximately 55 W (with ADF)

Environmental

Temperature:	Operating: 41 to 95 °F (5 to 35 °C); 50 to 89 °F (10 to 32 °C) when using ADF Storage: -13 to 140 °F (-25 to 60 °C)
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Humidity (without condensation):	Operating: 10 to 80% Storage: 10 to 85%
Operating conditions:	Ordinary office or home conditions; avoid dust, direct sunlight, or strong light

Safety Approvals

Safety standards:	UL 1950 with D3 CSA C22.2 No. 950 EN60950 (VDE) IEC950 (ROSTEST, PSB)
EMC:	FCC part 15 subpart B class B CSA C108.8 class B AS/NZS3548 class B CISPR Pub22 class B CNS13438 class B

CE marking

Low Voltage Directive 73/23/EEC:	EN60950
EMC Directive: 89/336/EEC:	EN 55022 Class B EN 61000-3-2 EN 61000-3-3 EN 50082-1 IEC 60801-2 IEC 60801-3 IEC 60801-4

SCSI Interface

Interface type:	ANSI X3T9.2/375R Revision 10L (SCSI 2)
Functions:	BUS FREE phase ARBITRATION phase SELECTION/RESELECTION phase COMMAND phase (the Logical Unit Number is fixed at 0 and the Command Link Function is not supported) DATA phase DATA IN phase DATA OUT phase STATUS phase MESSAGE phase MESSAGE IN phase MESSAGE OUT phase ATTENTION condition RESET condition
Logic level:	TTL compatible

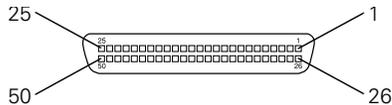
Electrical standard: ANSI X3T9.2/375R Revision 10L (SCSI 2)

ID setting: Selectable from 0 to 7 (factory setting: 2)

Terminator: Internal terminator selectable (enable/disable)

Connector type: Two half-pitch (high density), 50-pin connectors

Connector pin arrangement:



Initialization methods

Scanner is turned on or receives a SCSI Reset signal from the SCSI interface (hardware initialization).

Scanner receives a SCSI Bus Device message or an Esc @ command from the software (software initialization).

Configuration

System Requirements

IBM compatible PC with Pentium equivalent or higher processor, 64 MB RAM recommended

SCSI: ASPI-compliant compatible Fast SCSI, Ultra or Ultra 2 SCSI PCI card

IEEE 1394: IEEE 1394 port equipped PC systems or PCI IEEE 1394 card (OHCI compliant) with Windows 2000 or Me

Operating Systems Supported

Windows 95, 98, 2000, Me, or NT 4.0 (with SP4)

Software Included

EPSON TWAIN Pro Scanner Driver, version 2.0

EPSON TWAIN Pro Network Scanner Driver, version 2.0

EPSON Scan Server, version 1.21E

Pixel Translations ISIS Driver, version 1.4.10101.04003

Adobe PhotoDeluxe Business Edition, version 1.0

Xerox TextBridge Pro OCR, version 8.0

NewSoft Presto! PageManager, version 4.20.09

Optional Automatic Document Feeder (B813212) Specifications

General

Paper input/output: Load face-up; eject face-down

Paper quantity: 100 pages (80 g/m² paper, maximum total thickness under 0.48 inches [12 mm])
100,000 sheets (load/eject MCBF)

Speed: 10 ppm (monochrome, draft mode at 200 dpi)

Dimensions: Width: 23.8 inches (606 mm)
Depth: 19.2 inches (488 mm)
Height: 5.3 inches (134 mm)

Weight: Approximately 28.7 lb (13 kg)

Electrical

Input voltage: 22.8 to 25.2 VDC
4.75 to 5.25 VDC

Input current: 24 V: 1.5 A
5 V: 0.4 A

Optional IEEE 1394 Scanner Interface Card (B808342) Specifications

General

Interface type: IEEE 1394-1995 compatible

Data transfer method: Half-duplex Data/Strobe differential serial

Synchronization method: Clock synchronization with DS-Link

Encoding/decoding: DS-Link

Logic level: 3.3 V

Compatible connectors: IEEE 1394-1995 compatible

Power class: Power class code 100
No power supply from external sources
Fitted with a repeat function with bus power

Environmental

Temperature: Operating: 41 to 95 °F (5 to 35 °C)
Standby: -13 to 140 °F (-25 to 60 °C)

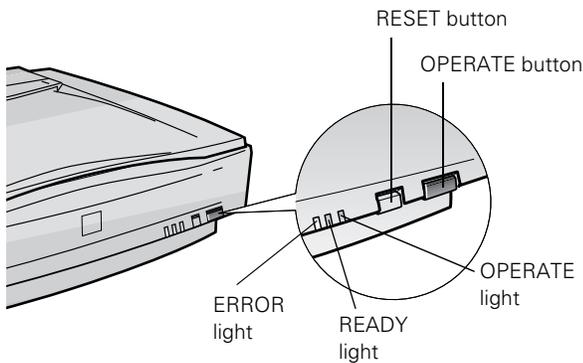
Humidity (without condensation): Operating: 10 to 80%
Standby: 10 to 85%

Connector pin assignments

Pin number	Signal name	Function
1	VP	Cable power supply
2	VG	Cable ground
3	TPB	Strobe during receipt, data during transmission (differential pair)
4	TPB	
5	TPA	Data during receipt, strobe during transmission (differential pair)
6	TPA	

Lights and Buttons

The scanner has three indicator lights and two buttons on its control panel. A Start button is located beside the document table. Light status and button functions are described in the tables that follow.



Scanner indicator lights

Light	Light status	Color	Scanner status
OPERATE	On	Green	Scanner is on.
READY	On	Green	Ready to scan images.
	Flashing		Scanning in progress.
ERROR	On	Red	An error has occurred. See Error conditions table below.
	Flashing		

Scanner buttons

Button	Function
⏻ OPERATE	Turns the scanner on and off.
RESET	Initializes the scanner.
Start	Automatically launches a Start button-compatible application. You must set up your scanner software and a compatible application to use this feature with any application other than Presto! PageManager. If you installed Presto! PageManager, it's automatically assigned to the Start button. You can set up Presto! PageManager to scan your image automatically and send it directly to another application or a peripheral device, such as a printer.

Error conditions

ERROR light	READY light	Error type
On	On	Command error: The scanner has received incorrect commands from the scanning software. Try rescanning.
Flashing	Off	Interface error: Make sure the scanner is securely connected to the computer, and then turn the scanner off and back on again.
Flashing	Flashing	Fatal error: Make sure the transportation lock is released, and then turn the scanner off and back on again.
Off	Off	Option error: There's a problem with the ADF unit. Make sure the ADF is flat against the document table. Make sure it is securely connected to the ADF connector at the back of the scanner. Finally, make sure the ADF isn't out of paper and doesn't have a paper jam.

Transporting the Scanner

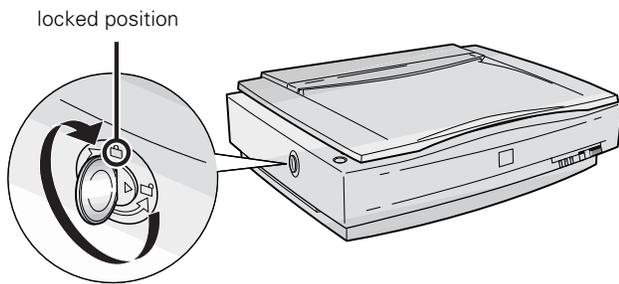
When you transport the scanner a long distance or store it for an extended time, follow these steps to secure the carriage:

1. Make sure the transportation lock on the side of the scanner is in the unlocked position.
2. If you're using the automatic document feeder, remove it and replace the scanner cover.
3. Turn on the scanner and wait until the carriage moves to the home position (toward the left of the scanner). Then turn off the scanner.



If the scanner is inoperable, the carriage may not automatically return to the home position. If it doesn't, raise the right side of the scanner and hold it up until the carriage comes to rest at the left side. Then turn the transportation lock to the locked position.

4. Turn the transportation lock to the locked position.



Scanning with EPSON TWAIN Pro

Here is a brief overview of the scanning steps using EPSON TWAIN Pro (or EPSON TWAIN Pro Network).

1. Open your host application (for example, PhotoDeluxe Business Edition).
2. Select your scanner source. (Unless you change your source, you need to do this step only once.)

For example, if you're using PhotoDeluxe Business Edition as your host application, click the **Get & Fix Photo** button. Click the **Get Photo** tab, then click the arrow below the **Scanners** button. Select **EPSON TWAIN Pro** and click **OK**.

If you're accessing a network scanner connected to another computer, select **EPSON TWAIN Pro Network** as your input source and click **OK**.



You can't select EPSON TWAIN Pro as your scanner source if you're using a network scanner and EPSON Scan Server is running. EPSON Scan Server disables EPSON TWAIN Pro.

3. Open your scanner driver. In PhotoDeluxe, do one of the following:
 - Click the **Get & Fix Photo** button. Click the **Get Photo** tab, then click the **Scanners** button. Click the **1 Mode** tab, then click the **Custom** button.
 - Choose **File, Open Special**, then select **Scan Photo**.



The command you choose from the File menu depends on the host application. With some applications, you might choose **Acquire** or **Select Source** instead of **Open Special**.

The EPSON TWAIN Pro main window appears.



click to display a preview of the image

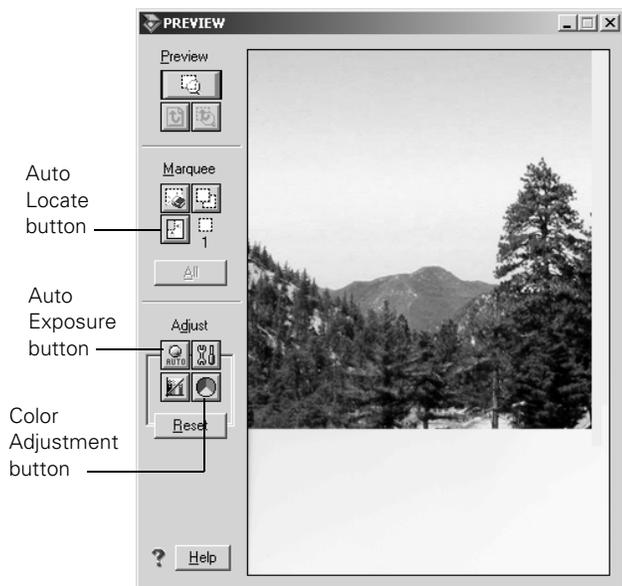
click to start scanning

4. Choose the Document Source, Image Type, and Destination.

For example, if you're scanning a photograph to print, select **Flatbed** as your Document Source, **24-bit Color [Std]** as your Image Type, and **EPSON Stylus Printer [Photo]** as the Destination, if you're sending the scanned image to an EPSON Inkjet printer.

If you're using the optional automatic document feeder, select either **ADF - Single-sided** or **ADF - Double-sided** as your Document Source.

- Click the **Preview** button. You see a preview of your scan in the window that opens.



- Choose your scan settings.

Click the  **Auto Locate** button to automatically define the scan area around the edges of your image. You can also adjust the scan area by positioning the mouse pointer over the dotted line around the marquee's edge and dragging the box to resize the marquee.

Click the  **Color Adjustment** button and use the Gray Balance Intensity feature if you need to remove color cast from your image.

Click the  **Auto Exposure** button to automatically set the highlight and shadow exposure.



Generally it's a good idea to use the Auto Exposure button to obtain the best settings for your scan.

- When you've finished making adjustments, click the **Scan** button.

The **READY** light on the front of the scanner flickers while it's scanning. In a few moments, a scanned image is imported into your host application's window. Then click **Close** to close the EPSON TWAIN Pro or EPSON TWAIN Pro Network window and return to your application.

Using a Network Scanner

Network scanning involves the following steps:

- Connect the scanner to the scanner server.
- Turn on the scanner and scanner server and start EPSON Scan Server.
- Place your first image on the document table (or in the automatic document feeder).
- From the client computer, start the host application, then start EPSON TWAIN Pro Network to establish a connection to the scanner server. Only one client computer at a time can access the scanner server.
- Choose the Image Type, Resolution, and other settings you want for your scan.
- Start the scan. Although this can be done from EPSON TWAIN Pro Network on the client computer, it may be more convenient to press the scanner's  Start button or to start the scan from the scanner server. Then you can scan several images with a single trip to the scanner.
- If you want to scan more than one image, place your second image on the document table and press the scanner's  Start button again. Repeat this step for every image you want to scan. (The settings you chose for the first image apply to these images too.)
- When you return to the client computer, your scanned images appear in the host application's window. Close EPSON TWAIN Pro Network to end your connection to the scanner server and allow other client computers to use the scanner.



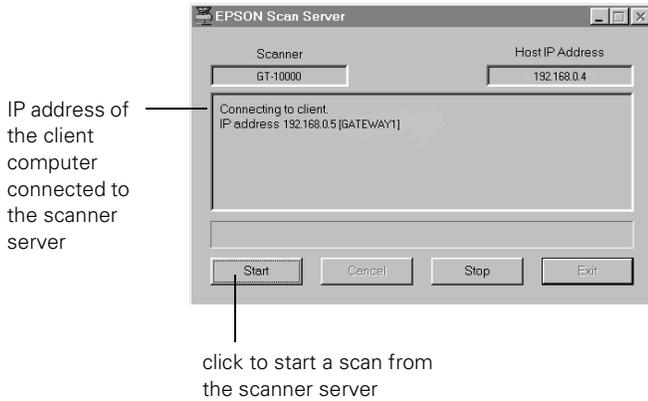
Some applications automatically close the client computer's connection to the scanner server when you press the  Start button. You can't scan multiple images if you're using these applications.

Starting a Network Scan

You can start a scan on your network scanner in several ways:

- You can start EPSON TWAIN Pro Network on the client computer, make your scan settings, and click the **Scan** button on the EPSON TWAIN Pro Network main window. The scanned image is imported into your host application window.
- You can press the  Start button on the scanner to send the scanned image to the client computer that is currently connected to the scanner server.

- ❑ You can click the **Start** button on the EPSON Scan Server dialog box to send the scanned image to the client computer currently connected to the scanner server.



Related Documentation

CPD-11730	EPSON GT-10000+ User's Guide
CPD-11731	EPSON GT-10000+ Software Reference Guide (html)
TM-GT10000/+	EPSON GT-10000/GT-10000+ Service Manual
PL-GT10000+	EPSON GT-10000+ Parts Price List

Stopping a Network Scan in Progress

You can stop a scan in progress from either the client computer or the scanner server.

- ❑ To cancel a scan from the client computer, click the **Cancel** button on the Progress bar.
- ❑ To cancel from the scanner server, click the **Cancel** button at the bottom of the EPSON Scan Server dialog box.
- ❑ To break the connection between the client computer and the scanner server, click the **Stop** button at the bottom of the EPSON Scan Server dialog box. This closes EPSON TWAIN Pro Network on the client computer and allows other client computers to connect to the scanner server.

