**Scanner Parts**

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**Scanner Specifications**

### General
- **Scanner type**: Flatbed, color
- **Photoelectric device**: Color CCD line sensor
- **Effective pixels**: 7020 × 10200 pixels (at 600 dpi)
- **Color depth**: 48-bit internal/24-bit external
- **Grayscale depth**: 16-bit internal/8-bit external
- **Maximum document size**: 11.7 × 17.0 inches (297 × 432 mm); the reading area can be specified from your software
- **Resolution**: 600 dpi (optical)
- **Maximum hardware resolution**: 600 dpi (main scan); 1200 dpi with Micro Step Drive (sub scan)  
  *The maximum hardware resolution of 600 × 1200 dpi is achieved using EPSON’s Micro Step Drive technology*
- **Output resolution**: 50 to 9600 dpi
- **Maximum interpolated resolution**: 4800 dpi
- **Speed (600 dpi, draft mode)**:  
  - Color: 3.8 msec/line (approx.)
  - Grayscale: 1.3 msec/line (approx.)
  - Line Art: 1.3 msec/line (approx.)
- **Color separation**: RGB color filters on CCD
- **Reading sequence**: Monochrome: One-pass scanning  
  - Color byte sequence: One-pass scanning (R, G, B)  
  - Color line sequence: One-pass scanning (R, G, B)
- **Zoom**: 50 to 200% in 1% increments
- **Command level**: ESC/I-B7  
  - FS
- **Pixel depth**: 16 bits per pixel input, 1 to 8 bits per pixel output
- **Brightness**: 7 levels
- **Line art settings**: Fixed threshold  
  - TET (Text Enhancement Technology, enable/disable selectable)
Digital halftoning
- AAS (Auto Area Segmentation, enable/disable selectable)
- 3 error diffusion modes (A, B, and C)
- 4 dither patterns (A, B, C, and D) for bi-level and quad-level data
  (2 downloadable dither patterns)

Gamma correction
- 2 types for CRT display
- 3 types for printer
- 1 type user-defined

Color correction
- 1 type for CRT display
- 3 types for printer (available in color byte sequence mode and color line sequence mode)
- 1 type user-defined

Interfaces
- SCSI 2 (half pitch 50-pin connectors)
- USB 2.0 (Type B receptacle connector)
- IEEE 1394 (FireWire), optional
- 10Base-T/100Base-TX, optional

Light source
- Xenon gas cold cathode fluorescent lamp

Reliability
- 100,000 cycles of carriage movement (main unit MCBF)

Dimensions
- Width: 25.8 inches (656 mm)
- Depth: 18.0 inches (458 mm)
- Height: 6.2 inches (158 mm)

Weight
- Approximately 29.8 lb (13.5 kg)

Environmental
- Temperature
  - Operating: 41 to 95 °F (5 to 35 °C)
  - Storage: –13 to 140 °F (–25 to 60 °C)
- Humidity (without condensation)
  - Operating: 10 to 80%
  - Storage: 10 to 85%
- Operating conditions
  - Ordinary office or home conditions. Avoid dust, direct sunlight, and proximity to strong light sources.

Safety Approvals
- 120 V model
  - Safety: UL 1950
    - CSA C22.2 No. 950
    - EN 60950
  - EMC: FCC part 15 subpart B class B
    - CSA C108.8 class B
    - EN 55022 (CISPR Pub 22) class B
    - AS/NZS 3548 class B
    - CNS 13438 class B
- 230 V model
  - Safety: EN 60950
  - EMC: EN 55022 class B, EN 55024, EN 61000-3-2, 3-3

SCSI Interface
- Interface type
  - ANSI X3T9.2/375R Revision 10L (SCSI 2)
- Logic level
  - TTL-compatible
- ID setting
  - Selectable from 0 to 7
- Terminator
  - Internal terminator (enable/disable selectable)
- Connector type
  - Two half pitch 50-pin connectors

USB Interface
- Interface type
  - Universal Serial Bus Specification, Rev. 2.0
- Electrical standard
  - Full speed mode (12Mb) and High speed mode (480 Mbps) of Universal Serial Bus Specification
  - Revision 2.0
- Connector type
  - One receptacle (Type B)
**IEEE 1394 FireWire**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interface type</td>
<td>IEEE 1394-1995 compatible</td>
</tr>
<tr>
<td>Data transfer method</td>
<td>Half-duplex Data/Strobe differential serial</td>
</tr>
<tr>
<td>Synchronization method</td>
<td>Clock synchronization with DS-Link</td>
</tr>
<tr>
<td>Encoding/decoding</td>
<td>DS-Link</td>
</tr>
<tr>
<td>Logic level</td>
<td>3.3 V</td>
</tr>
<tr>
<td>Compatible connectors</td>
<td>IEEE 1394-1995 compatible</td>
</tr>
<tr>
<td>Power class</td>
<td>Power class code 100</td>
</tr>
<tr>
<td></td>
<td>No power supply from external sources</td>
</tr>
<tr>
<td></td>
<td>Fitted with a repeat function with bus power</td>
</tr>
</tbody>
</table>

**ADF Connector**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interface type</td>
<td>For use with the optional automatic document feeder (B813212)</td>
</tr>
<tr>
<td>Output voltage</td>
<td>21.6 to 26.4 VDC (motor drive voltage)</td>
</tr>
<tr>
<td></td>
<td>4.75 to 5.25 VDC (sensor logic voltage)</td>
</tr>
<tr>
<td>Output current</td>
<td>0.6 A (24 V)</td>
</tr>
<tr>
<td></td>
<td>0.3 A (5 V)</td>
</tr>
</tbody>
</table>

**Initialization Methods**

**SCSI interface**

- **Hardware**: Initialized when the scanner is turned on or the scanner receives a SCSI Reset signal from the SCSI interface
- **Software**: Initialized when the software sends the Esc @ (initialize the scanner command), or the scanner receives a SCSI Bus Device message

**USB interface**

- **Hardware**: Initialized when the scanner is turned on or the USB cable is plugged into the USB port on the scanner
- **Software**: Initialized when the software sends the Esc @ command or the scanner receives a Bus Reset from the USB interface

**System Requirements**

The minimum system requirements are listed below. For optimum performance, a faster processor and more memory are recommended. If you’re scanning high resolution images, you need more than the minimum available hard disk space.

**Note**: Color and tone reproduction are subject to the display capability of your computer system, including the video card, monitor, and software. See the documentation for these products for details.

- A Microsoft Windows-compatible PC with a Pentium-equivalent processor, 233 MHz or faster recommended
- Preinstalled Windows XP, 98, Me, or 2000 for USB connection; Windows XP, 98, Me, 2000 Professional, or Windows NT Workstation with Service Pack 4 or later for SCSI connection
- SCSI, USB, or FireWire IEEE 1394 (Windows XP, Me, or 2000 only) port; FireWire card must be OHCI-compliant
- 64MB RAM (128MB RAM recommended for all systems)
- 300MB available hard disk space
- CD-ROM drive
- SVGA color monitor with 800 × 600 resolution
- 16-bit, 65K-color display adapter card (24-bit display adapter card with millions of colors recommended)

**Software Included**

- EPSON Scan
- ABBYY FineReader 5.0 Sprint
- ScanSoft PaperPort Deluxe
- Adobe Photoshop Elements 2.0
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

**Environmental**

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

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

**Connector pin assignments**

<table>
<thead>
<tr>
<th>Pin number</th>
<th>Signal name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>VP</td>
<td>Cable power supply</td>
</tr>
<tr>
<td>2</td>
<td>VG</td>
<td>Cable ground</td>
</tr>
<tr>
<td>3</td>
<td>TPB</td>
<td>Strobe during receipt, data during transmission (differential pair)</td>
</tr>
<tr>
<td>4</td>
<td>TPB</td>
<td>Strobe during transmission (differential pair)</td>
</tr>
<tr>
<td>5</td>
<td>TPA</td>
<td>Data during receipt, strobe during transmission (differential pair)</td>
</tr>
<tr>
<td>6</td>
<td>TPA</td>
<td>Data during transmission (differential pair)</td>
</tr>
</tbody>
</table>

**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

**Unlocking the Scanner**

To unlock the scanner, pull up the transportation lock to the Unlock position:

To lock it, push it down.
Scanner Lights

You can diagnose some problems by checking the scanner’s lights.

<table>
<thead>
<tr>
<th>Light</th>
<th>Scanner Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ready light is on or</td>
<td>The green Ready light is on when the scanner is ready to scan. It flashes when</td>
</tr>
<tr>
<td>flashing.</td>
<td>scanning is in progress.</td>
</tr>
<tr>
<td>Error light is</td>
<td>There’s a problem with your cable connection. Reconnect the cable to both the</td>
</tr>
<tr>
<td>flashing; Ready light</td>
<td>scanner and your computer, and then restart your computer. If this doesn’t</td>
</tr>
<tr>
<td>is off.</td>
<td>work, try using a different cable. If you have a USB connection, use the USB</td>
</tr>
<tr>
<td></td>
<td>cable that came with your scanner. If you have a SCSI connection, always</td>
</tr>
<tr>
<td></td>
<td>restart your computer after changing or reconnecting the cable.</td>
</tr>
<tr>
<td>Error and Ready lights</td>
<td>The scanner has received an incorrect command from your scanning software. Try</td>
</tr>
<tr>
<td>are both on.</td>
<td>scanning again.</td>
</tr>
<tr>
<td>Error and Ready lights</td>
<td>Make sure your scanner is connected to a working outlet, then press the Power</td>
</tr>
<tr>
<td>are both off.</td>
<td>button. Restart your computer. If the green Ready light doesn’t come on, there</td>
</tr>
<tr>
<td></td>
<td>may be a problem with the automatic document feeder, or the cover may be open.</td>
</tr>
<tr>
<td></td>
<td>Make sure the cover or automatic document feeder is closed. If you are using</td>
</tr>
<tr>
<td></td>
<td>the feeder, make sure a document is loaded, and pages are not jammed.</td>
</tr>
<tr>
<td>Error and Ready lights</td>
<td>Check that the transportation lock on the back of the scanner is set to Unlock.</td>
</tr>
<tr>
<td>are both flashing.</td>
<td>If not, unlock the scanner, then turn it off and back on again. Restart your</td>
</tr>
<tr>
<td></td>
<td>computer. If this doesn’t solve the problem, contact EPSON.</td>
</tr>
</tbody>
</table>

How to Scan

The EPSON Scan software offers three scanning modes:

- **Home Mode** includes a simple interface, automatic image adjustments, and preset configurations for various types of scans.
- **Office Mode** includes a basic interface with practical scan settings designed for documents. Choose this mode to scan multi-page documents on the optional automatic document feeder.
- **Professional Mode**: Lets you manually configure advanced image settings, including the histogram setting, tone, color depth, balance, saturation, brightness, and contrast.

You can use EPSON Scan either in a “stand-alone” mode, or by starting from another program, such as PaperPort Deluxe or Photoshop Elements. (These programs are described in the User’s Guide.)

Placing the Original Document

Follow the steps below to position the document on the scanner glass properly. (If you’re scanning a multi-page document using the optional automatic document feeder, see the User’s Guide.)

1. Raise the scanner cover and place the document face down in the upper left corner of the document table. You can scan several pages or photos at the same time. Make sure you leave about an inch of space between them on the document table.

2. Close the document cover slowly. Be careful not to move the document.
Tip: If the edges of your document don’t scan properly, move it in one-quarter inch from the edges of the document table.

You can remove the document cover if you need to scan a thick item—such as a book—that doesn’t fit under the cover. Simply lift the back of the cover straight up. When you reattach the cover, line the rods up with the positioning holes and lower the cover into place.

Warning: Before removing the document cover, make sure you raise it all the way up. This will prevent the hinges from snapping back on the springs and possibly injuring you.

Scanning to a File With EPSON Scan

You can use the import or acquire function of a TWAIN-compliant application such as PaperPort Deluxe or Adobe Photoshop to scan images directly into your application. Or you can scan directly to your computer by starting EPSON Scan from the Windows Start menu.

First, place your document or photo on the scanner as described above. Then follow these steps:

1. Click Start > Programs or All Programs > EPSON Scan > EPSON Scan.

   Note: If you have multiple scanners installed, you are prompted to choose your scanner. Click EPSON GT-15000 and click OK.

2. Choose a mode from the Mode list at the top of the EPSON Scan window.

   If you choose Home Mode, a preview scan opens automatically. (This is the default. If you don’t want an automatic preview, deselect Auto Preview on the EPSON Scan dialog box.)

3. Change any settings for the mode you selected.

4. Click Scan. You see a File Save Settings window:

5. Type a name for your file in the Prefix field, then choose an image type and click OK. (For more details, see the EPSON Scan on-screen Help.)

Scanning With the Start Button

You can use the Start button to open EPSON Scan, and then scan your document as described above. Or, you can set up the Start button to open any compatible program on your computer and start scanning.

If you have set up the scanner on a network, you can use the Start button to scan automatically and send the document to an individual computer. For instructions on network scanning, see the on-screen Reference Guide.

First, place your document or photo on the scanner as described above. Then follow these steps:

1. Press the Start button.

   If you’re using Windows 98, Me, or 2000, EPSON Scan opens.

   If you’re using Windows XP, you see this window:

   ![EPSON GT-15000 Start button](image)

2. Select the program you want to use.

   To have the program open automatically whenever you press the Start button, check Always use this program for this action.
3. Click OK.
   If you want to change the program after you set up the Switch button, open the Scanners and Cameras utility in the Windows Control Panel.
   Right-click your scanner and select Properties. Select the Events tab, then select the program you want to use.

**Cleaning the Scanner**

To keep your scanner operating at its best, clean it periodically.

1. Press the Power button to turn the scanner off, and unplug the power cord.
2. Use a soft, damp cloth and mild detergent to clean the outer case. (Apply the liquid to the cloth, not directly on the scanner.)
   Caution: Don’t let water get into the scanner.
3. Clean dust and smudges from the document table glass with a soft, dry cloth (a microfiber glass cleaning cloth is recommended). You can also use compressed-air dust remover sprays. Dust on the glass can cause white spots to appear in your scanned image.

To remove grease, use pretreated lens/scanner wipes, or a small amount of glass cleaner on a soft cloth. Dry the document table glass afterwards.

Caution: Always unplug the scanner before cleaning.

Never use a harsh or abrasive brush or cleaning product to clean the document table. A damaged glass surface can decrease the scanning quality.

Never use alcohol, thinner, or corrosive solvent to clean the scanner. These chemicals can damage the scanner components as well as the case.

Be careful not to spill liquid into the scanner mechanism or electronic components. This could permanently damage them.

Don’t spray lubricants inside the scanner.

Never open the scanner case. If you think repairs or adjustments are necessary, consult your dealer or contact EPSON.

Unplug the scanner and refer servicing to qualified service personnel if the power cord or plug is damaged, if liquid has entered the scanner, if the scanner has been dropped or the case damaged, or if the scanner does not operate normally or exhibits a distinct change in performance.

**Transporting the Scanner**

Always secure the carriage when you transport the scanner a long distance or store it for an extended time.

1. If you’re using the automatic document feeder, remove it from the scanner and replace the scanner cover.
   Warning: Make sure you have someone help you lift the automatic document feeder.
2. Turn on the scanner and wait until the carriage moves left to the home position. Then turn off the scanner.
3. Push down the transportation lock at the back of the scanner to the Lock position.

4. Use the scanner’s original box, or a similar box with enough packaging material to prevent it from moving around in the box.
5. Pack the automatic document feeder in its original box, or use a similar box with enough packaging material to prevent any movement inside the box.

**Related Documentation**

CPD-17264  EPSON GT-15000 User’s Guide
EPSON GT-15000 Software Reference Guide (html)