Scanner Parts

Document cover

TPU indicator light

Power button

Document table

Carriage and lamp (in the home position)

Scan to Web button

Scan to e-mail button

Copy button

Start button

Transparency unit (TPU) under lid

Transportation lock (in unlocked position)

USB port

Power cord

Transparency unit (TPU) connector

Note: 3 film holders are included (not shown)

Automatic Document Feeder (ADF) (optional)
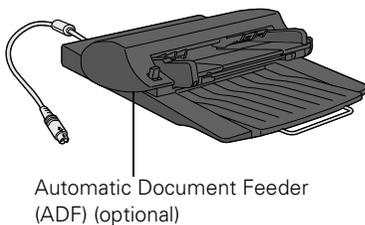
Scanner Specifications

Basic Specifications

Scanner type	Flatbed, color
Photoelectric device	Color EPSON MatrixCCD™ line sensor
Effective pixels	27,200 × 37,440 pixels at 3200 dpi, 100% scaling
Maximum document size	US letter or A4 size (8.5 × 11.7 inches [216 × 297 mm])
Optical resolution	3200 dpi
Maximum resolution*	3200 dpi (main scan) × 6400 dpi hardware (sub scan)

* The maximum hardware resolution of 3200 × 6400 dpi is achieved using EPSON's Micro Step Drive™ technology.

Maximum interpolated resolution	12,800 dpi
Speed (color)	8.7 msec/line at 3200 dpi (draft mode) 2.8 msec/line at 600 dpi (draft mode)
Pixel depth	16 bits per pixel (input/output)
Line art settings	Fixed threshold
Gamma correction	1 type for user-defined
Interface	USB 1.1/2.0 (Type B receptacle connector)
Light source	White cold cathode fluorescent lamp
Dimensions	Width: 10.9 inches (276 mm) Depth: 18.0 inches (458 mm) Height: 4.6 inches (117 mm)
Weight	Approx. 8.9 lb (3.8 kg)

Electrical

Input voltage range	100-120 VAC
Rated frequency	50 to 60 Hz
Rated input current	0.7 A
Rated output current	1.1 A
Power consumption	Approx. 23 W operating approx. 19 W in stand-by mode approx. 5.5 W in power saving mode

Note: Scanners sold outside the US market may operate at a different voltage. Check the label on the back of the scanner for voltage information.

Environmental

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

Safety Approvals

Safety	UL 60950 CSA C22.2 No. 60950
EMC	FCC part 15 subpart B class B CSA C108.8 class B

USB Interface

Interface type	Universal Serial Bus Specification Revision 2.0
Connector type	One receptacle (Type B)
Electrical standard	Full Speed mode (12 Mbps) and High Speed mode (480 Mbps), Universal Serial Bus Specification Revision 2.0

Connector pin arrangement

Pin number	Signal	Connector
1	VCC	
2	–DATA	
3	+DATA	
4	GND	
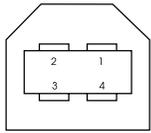
AC Adapter

Input	100-120 VAC, 50 to 60 Hz
Output	24.0-26.4 VDC, 1.1 A

Transparency Unit

The transparency unit (film adapter) is built into the scanner lid.

Electrical	Supply voltage: DC 24.0 to 26.4 V Rated current: 0.5 A
Document specifications	Positive or negative film in these sizes: 35 mm strips 35 mm slides 120/220 (6 × 9-cm) film
Readable area	2.6 × 9.1 inches (66 × 231 mm)

Optional Automatic Document Feeder (B12B813341) Specifications

Basic Specifications

Paper supply	Face up load
Paper out	Face down eject
Paper setting quantity	30 sheets (55 g/m2 paper, maximum total thickness under 6 mm)

Reliability
(mean cycles
between failure)
	load/eject:
	    plain paper sheets - 20,000
	    transparency film - 10,000
	hinge: 12,000 cycles

Electrical

Input voltage	24-26.4 VDC
Input current	0.8 A

Note: Optional ADFs sold outside the US market may operate at a different voltage. Check the label on the back of the scanner for voltage information.

Environmental

Temperature	Operation: 50 to 90 °F (10 to 32 °C) Storage: -4 to 140 °F (-20 to 60 °C)
Humidity (without condensation)	Operation: 20 to 80% Storage:10% to 85%

How to Scan

The ✧ Start button on your scanner automatically opens the EPSON Smart Panel, making it easy for you to scan your images for many different uses. Here's how you can use the ✧ Start button and Smart Panel to scan photos and save them as files.

1. Raise the scanner cover and place your photo face down on the glass. Make sure the top right corner of the photo is aligned with the top right corner of the scanner.

    Then close the cover.

2. Press the ✧ Start button on your scanner.

Note: In Windows XP, you will see a message the first time you press the ✧ Start button. Select **EPSON Smart Panel**, click **Always use this program** for this action, then click **OK**.

EPSON Smart Panel opens on your computer.

3. Click the 🖼️ Scan and Save icon.

A progress meter appears on the screen and your photo is automatically scanned. After your photo is scanned, the View Image screen opens.

4. Click Next to continue.

5. When you see the following screen, select a location and file type for your scanned image, then click Save.

Specify the path to the folder where you want to save your scanned image

Select a file format
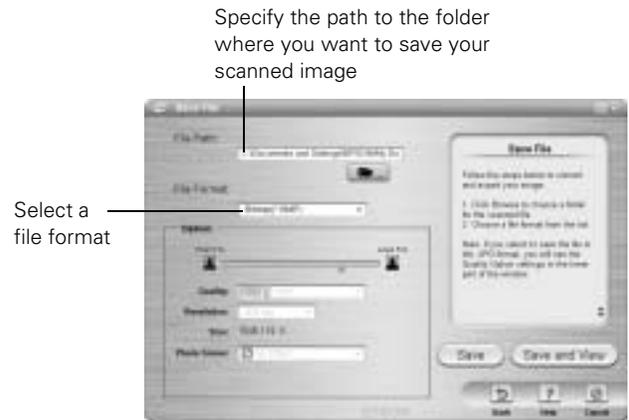
Starting a Scan

You can start a scan in several different ways:

❑ You can use the scanner buttons. Press the button for the type of scan you want. Smart Panel automatically opens and scans your documents. Then follow the easy on-screen instructions to finish your task.

Note: If you are using Windows XP, you will have to select **EPSON Smart Panel** and **Always use this program for this action** the first time you press each of the buttons.

Scan to Web	Scan to E-mail	Copy	Start
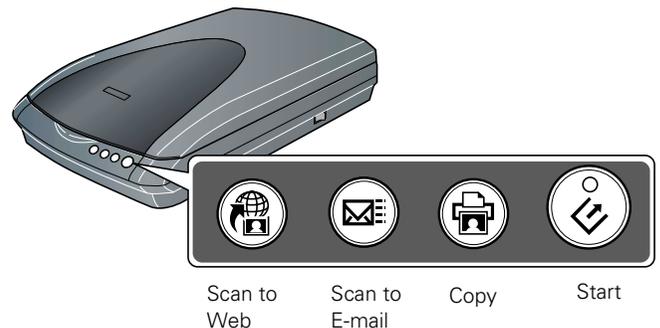
❑ You can start Smart Panel by clicking the 🖊️ icon on your desktop, and use it to perform various types of scans.

❑ You can start EPSON Scan from Adobe Photoshop Elements or any other TWAIN-compliant program. You can also start the EPSON Scan program directly from your computer.

Selecting the Scanning Mode

EPSON Scan has four scanning modes:

Choose your scanning mode

❏ **Full Auto Mode** for automatic control of scan settings.

❏ **Home Mode** for scanning film and more control over scan settings, including Color Restoration.

❏ **Office Mode** for scanning text and multiple pages (available only if the optional automatic document feeder [B12B813341] is installed).

❏ **Professional Mode** for full control over all scan settings.

To change the scanning mode, choose the mode you want to use from the list box at the top right of the window.

To change settings in Full Auto Mode, click the Pause button, then click Options. If you're using Home, Professional, or Office Mode, the options window automatically appears. Then select the settings you want to use for your scan.

Note: The selected mode and settings remain in effect until they are changed.

Restoring Color in Photos

If you have faded photos or negatives, you can use the Color Restoration setting in your software to improve the color of your scan. You can select this setting in Smart Panel or in EPSON Scan.

Smart Panel

To select the Color Restoration setting, open Smart Panel and select ▣ RePrint Photo. You see the screen below. Click the Color Restoration icon. (It is highlighted in blue when it is selected.)

Click Color Restoration

Click here to scan and print

EPSON Scan

Color Restoration is available in Home and Professional Modes.

1. To select Color Restoration, start EPSON Scan. You see a screen similar to this.
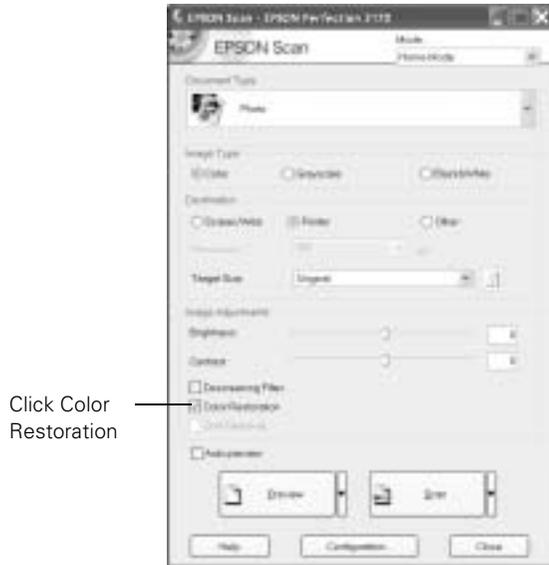
Click Color Restoration

2. Click the **Preview** button at the bottom of the screen.

3. Select the **Color Restoration** checkbox. (If you're using Professional Mode, you may need to scroll to the bottom of the screen.)

Scanning Film and Transparencies

The scanner cover has a built-in transparency unit (film adapter). To scan film or negative strips, slides, or transparencies, you need to remove the document mat from the scanner cover and insert the film in a holder.

The scanner comes with 3 different film holders: one for 35 mm film or negative strips, one for 35 mm slides, and one for medium-format (120/220) transparencies.

1. Make sure the film adapter cable is connected to the scanner (see the *Start Here* sheet for instructions). If you need to connect the cable, first turn the scanner off. Then turn it back on again after you connect the cable.

2. Lift the scanner cover all the way up and slide the reflective document mat up and off of the scanner cover.

3. Follow the instructions for the type of film you are scanning:

   If you are scanning 35 mm film or negative strips or medium-format (120/220) transparencies, slide the film into the corresponding holder, with the film's shiny side facing down.
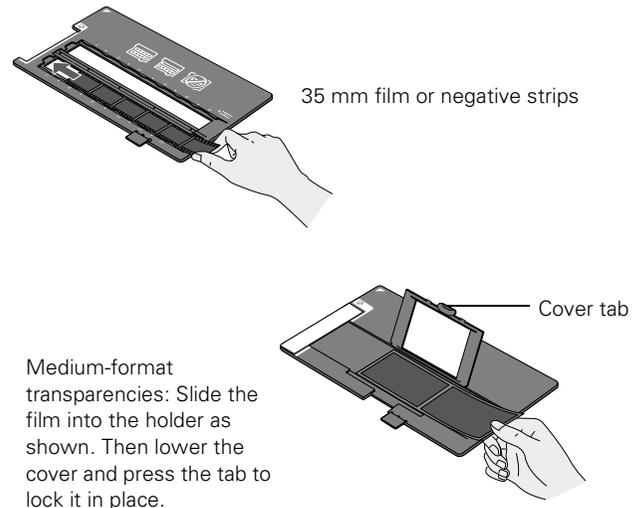

35 mm film or negative strips

Cover tab

Medium-format transparencies: Slide the film into the holder as shown. Then lower the cover and press the tab to lock it in place.

Place the film holder on the scanner as shown. Make sure the white triangle on the holder points to the upper-right corner of the scanner.
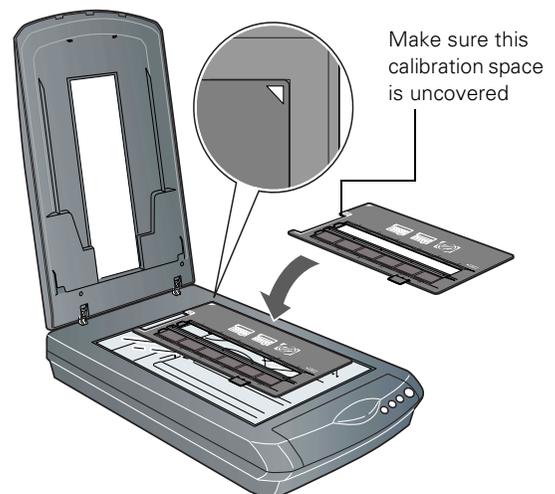
Make sure this calibration space is uncovered

If you are scanning slides, place the holder on the scanner. Then place the slides in the holder. (Place the slides so the "this side to lamp" indication is facing down.)
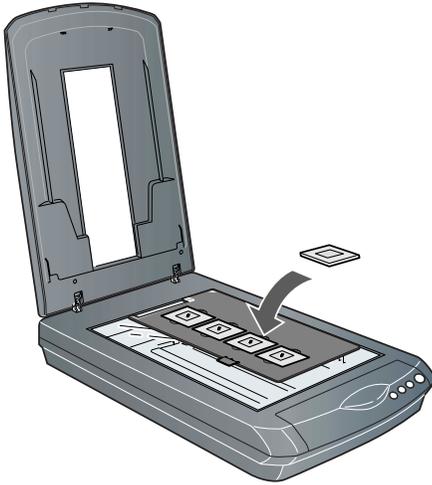
4. Close the scanner cover.

5. Start EPSON Scan and make sure the correct Document Type is selected: either Color Negative Film, B&W Negative Film, or Positive Film (for slides and transparencies).

Select Dust Removal

Tip: Make sure your film is dust-free for the best scan. You can also select the Dust Removal setting in EPSON Scan, as shown above.

Indicator Light

The indicator light (on the ✦ Start button) indicates the status of the scanner, as described below.

Light	Color	Status
On	Green	The scanner is ready to scan images.
Flashing	Green	The scanner is initializing (warming up) or is busy scanning.
Flashing	Red	Check the following, then turn your scanner off and back on to reset it: ❑ Make sure the transportation lock is turned to the unlocked position. See the *Start Here* sheet for details. ❑ Try restarting your computer and turning the scanner off and then on again. If this does not eliminate the error, the fluorescent lamp may need to be replaced or the scanner may have another problem. Consult your dealer or EPSON.
Off	—	The scanner is unplugged or turned off.

Related Documentation

CPD-16343	EPSON Perfection 3170 Photo *Start Here* poster
CPD-16345	EPSON Perfection 3170 Scanner Software CD-ROM
CPD-16344	EPSON Perfection 3170 *Notices* booklet
—	*Reference Guide* (HTML)