

Digital Photos – Part 3

Digital Photos – Scanning

Topics

Scanner types
Scanning
Resolution and file size
Output file format
Scanning software
Scanner user interface

Scanner types



Flat bed



All-in-one



Auto-feed



Hand-held

Scanning



Low

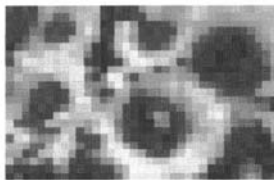


Medium



High

Color – large file



Low



Medium



High

Gray scale – medium file



Low



Medium



High

Black and white – small file

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Scanning resolution and file size for an 8 x 10 inch scan

Resolution	File Size, MB
100	0.8
150	1.8
200	3.2
300	7.2
600	28.8
1200	115
2400	460

Output file format (GIF, BMP, JPG, TIF, PNG, and PDF, TXT, fax)

Graphic Interchange Format (GIF)

GIFs should be used for images with flat colors and sharp lines of contrast, such as corporate logos, cartoons and icons. GIF was originally developed by CompuServe. GIFs provide a maximum of 256-color information.

Windows bitmap (bmp)

This format allows for 256 colors and while this format is used in many Windows applications including Desktop Wallpaper, file size is large.

Joint Photographic Expert Group (JPEG)

JPEGs should be used for images with smooth color, shading or transitions like photographs and paintings

This format is supported by all but the oldest browsers and provides a maximum of 16.8million colors, aka 'true color'. It can also handle grayscale images.

JPEG files allow you to control degree of compression using a number between 1 and 100 (100 represents the least compression and therefore the largest file).

Tag image file format (tif)

A format compatible with many programs. Creates a large file size.

Portable Network Format (PNG)

PNG was developed in 1995 under the threat of Unisys enforcing its LZW patent (requiring a license fee from GIF application developers).

PNG is a good graphic format to use for Line Art.

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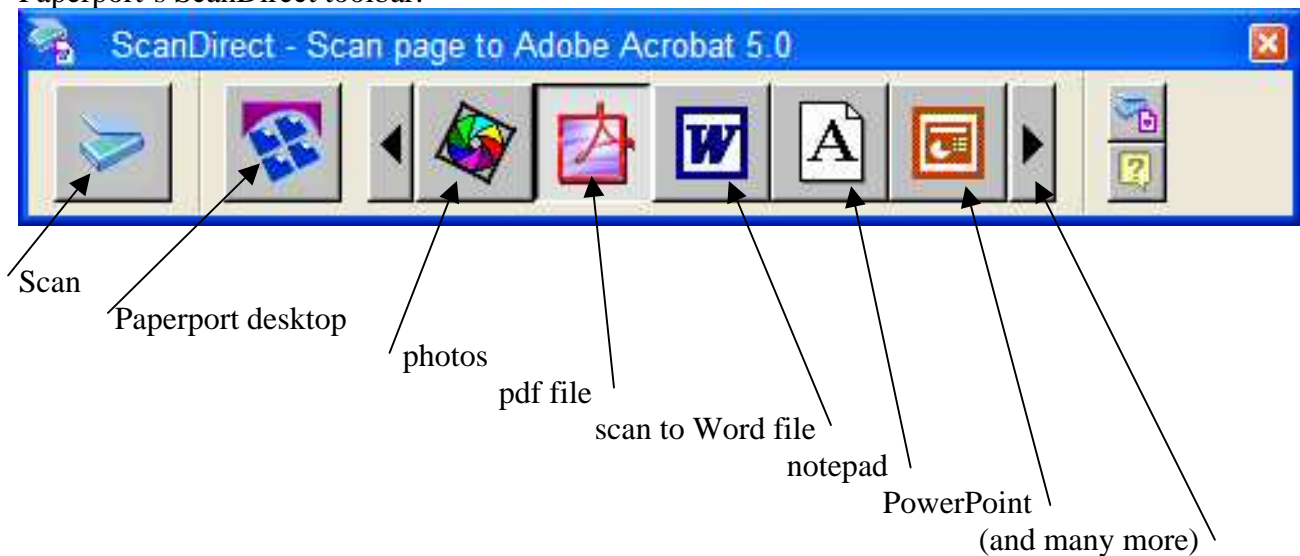
Information on Paperport:

<http://www.scansoft.com/paperport/deluxe/>

Paperport features:

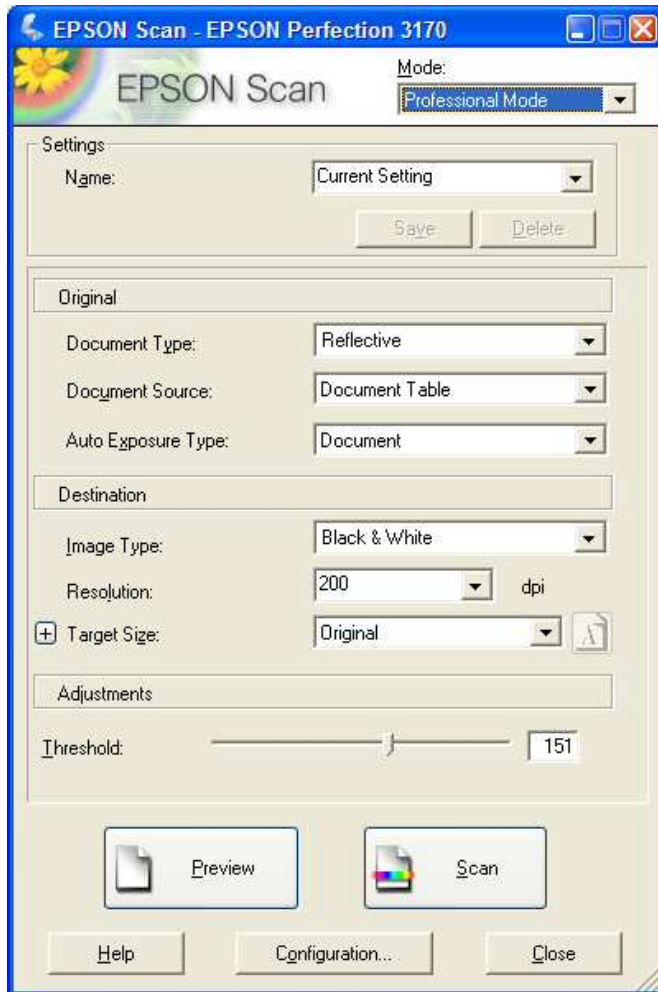
- PaperPort Deluxe stores and organizes exact copies of your scanned documents and photos on the computer.
- PaperPort can create documents in the standard PDF format. This lets you scan and email documents and photos in a format that ensures everyone can view and print them on any computer.
- PaperPort has the right set of tools to make your digital photos look great.
- Quickly find all the paperwork needed to prepare you taxes - previous returns, receipts, mortgage information, stock transactions and more.
- Easily Convert Paper Documents into Digital Documents such as Word files. You can turn your scanned images into editable Word, Excel or text files with a simple drag and drop to PaperPort's SendTo bar.

Paperport's ScanDirect toolbar:



Digital Photos – Part 3

Every scanner has a different user interface. This one is for the Epson 3170 scanner:



Professional, home, or full auto modes.

Personalized settings can be saved with the name you choose.

Reflective or transparency.

Table or slide/negative.

Document or photo.

Black & white, grayscale, or color.

50 to 12,800 dpi

Size of what is being scanned.

Changes brightness.

Preview first, for changing the brightness, if needed, then scan.

Review by PC World:

<http://yahoo.pcworld.com/yahoo/article/0,aid,113653,00.asp>

Reviews on www.amazon.com. Search for Epson 3170, then click on the link to Epson 3170. Editorial and user reviews are near the bottom of the page.

Prices for Paperport 9:

www.pricegrabber.com \$88

www.shopping.com \$84

www.buycheapsoftware.com \$83 + shipping

Prices for Epson 3170 scanner:

CompUSA \$200

Digital Photos – Part 3

Part 4

Editing a digital photo

Brightness and focus (brightness, contrast, blur, sharpen, Saturation)

Fix flaw (red eye, pet eye, scratch, shiny face)

Photo effects (artistic, black and white, colorization, filter)

Text (creating, resizing, rotating)

Frame (add, remove)

I found the following web site to be very informative because of frank reviews of digital cameras by users.

<http://www.dpreview.com/reviews/specs.asp>

Click on the manufacturer, then find the camera model you are interested in. Click on "Read opinions/reviews".