COLOR IMAGE SCANNER

EPSON

EPSON PERFECTION™ 4870 PHOTO

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BASIC
SCANNER TYPE	Flatbed colour image scanner
OPTICAL RESOLUTION	Main 4800 dpi x Sub 9600 dpi
DOCUMENT SIZE	216 x 297mm (A4, US Letter)
	144 x 231mm
	(35mm Strip film 6 frames x 4
	35mm Mounted film 8 frames
	120/220 film 3 frames
	(Max. 6 x 12cm)
	4" x 5" 2 frames
INTERFACE	USB2.0 (Type B receptacle connector x 1)
	IEEE1394 (6 pin connector x 1)

CONFIGURATION
PHOTOELECTRIC DEVICE	Alternate 6 lines colour CCD with Micro Lens
	122,400 pixels (20400 x 2 Line x 3 colours)
LIGHT SOURCE	White cold cathode fluorescent lamp
SUB-SCANNING METHOD	Fixed document and moving carriage

PERFORMANCE
OUTPUT RESOLUTION		50 – 6400, 9600, 12800 dpi
COLOURS	Internal	48 bit (281.5 trillion colours)
	Output	48 bit (281.5 trillion colours)
		24 bit (16.7 million colours)
		16 bit (65,536 grayscale levels)
		8 bit (256 grayscale levels)
		1 bit Monochrome

SCANNING SPEED
REFLECTIVE SCANNING		
MONOCHROME[1]	A4 300dpi	14sec
24bit COLOUR[2]	A4 300dpi	20sec
	A4 600dpi	34sec
FILM SCANNING		
35mm Positive film	2400dpi	66sec
35mm Negative film	2400dpi	179sec

FUNCTIONS
IMAGE QUALITY ENHANCER	Digital ICE
	Grain Reduction
	Color Restoration
	Dust Removal
	PRINT Image Matching II
	Optimised Auto Exposure
	Unsharp Mask with Noise Reduction
	De-Screening with Document Type Optimiser
	Tone Curve Adjustment with Histogram
EASY SCANNING	1 Push Button
	Stand-Alone Application and Scan to File Feature
	Multi Purpose User Interface
	Multi Document Auto Detection
	Multi Document Auto Cropping
	Auto Skew Correction
	Multi Marquee
	Film Scanning Thumbnail Preview

SUPPORTED PLATFORMS
USB1.1:
Microsoft® Windows® 98/Me/2000 Professional/XP Home Edition/XP Professional
(Pre-installed model or upgrade of Windows® 98/Me/2000 Professional pre-installed model)
Mac OS® 8.6 to 9.x, Mac OS® X 10.2 or later (SilverFast®: Mac OS® 9.2 or later)

USB2.0:
Microsoft® Windows® XP Home Edition/XP Professional/2000 Professional
(Pre-installed model or upgrade of Windows® 98/Me/2000 Professional pre-installed model)
*USB2.0 Host Driver by Microsoft is required.

IEEE1394 (FireWire):
Microsoft® Windows® Me/2000 Professional/XP Home Edition/XP Professional
Mac OS® 8.6 to 9.x, Mac OS® X 10.2 or later (SilverFast: Mac OS® 9.2 or later)

ENVIRONMENTAL CONDITIONS
TEMPERATURE	5°C to 35°C (Operating)
HUMIDITY	10% to 80% without condensation (Operating)

ELECTRICAL SPECIFICATIONS
VOLTAGE	AC220-240V 50-60Hz
POWER CONSUMPTION	24W (Operation)
	16W (Standby Mode)
	4.5 W (Sleep Mode)

EPSON Perfection™ 4870 Photo
Weight=Approx. 6.7 kg

134 mm
476 mm
304 mm

*To use the USB port, consult the documentation provided with your PC for further information about USB connectivity. Please note that errors may occur if non-standard cables or multiple hub connections are used.

Scanning Speed Data Patterns
The thumbnail images below show the scanning patterns used to determine scanning speed specifications.

System Configuration of Scanning Speed
CPU: Pentium 4, 2.4GHz
RAM: 512MB
I/F: USB2.0 Hi-Speed
OS: Windows XP Home Edition
Soft: Adobe Photoshop 7.01E

*1
Line Art
(MEMO)

*2
Photo
(Photo courtesy of ISO/JIS-SCID. Reprinted by permission.)

Scanning speed test results vary according to system configuration, dpi setting, and scan mode setting. However, documents and photos other than those pictured above can be substituted without significantly affecting test results.

As an International ENERGY STAR Partner, EPSON has determined that this product meets the International ENERGY STAR program for energy efficiency.

Pinnacle of Perfection
– with Digital ICE™

EPSON

Dealer's Stamp

Dec 03

www.epson.com.sg
www.epsonphoto.com.sg
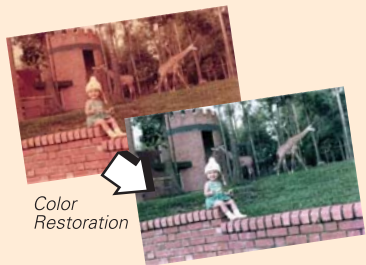
Pinnacle of Perfection
– with Digital ICE™

EPSON Perfection™ 4870 Photo is the breakthrough in consumer class scanners with its revolutionary hardware design and software support that achieves unprecedented imaging functionalities.

A first for consumer class scanners, EPSON Perfection™ 4870 Photo is designed with a Moving Carriage-Type Transparency Unit (TPU) for supreme performance. Redefine your scanning expectations, with a premium resolution of 4800 dpi, maximum optical density of 3.8, and dazzling speed. Capable of scanning a wide range of film formats, choose freely between 35mm strip film, 35 mm positive slide, 120/220 (6x12cm) medium format film and 4x5" format film. Innovative technology Digital ICE™ is newly incorporated, for professional detection and correction of defects in photos and films. With its exciting features, this is the scanner for serious photo enthusiasts and professionals.
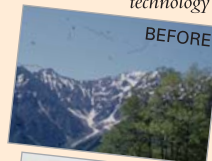
Image Correction and Enhancement – With Digital ICE™

EPSON Perfection™ 4870 Photo provides an array of tools through the improved driver software EPSON Scan ver 2.0 to correct defects on film and photo. Digital ICE™ is a technology that combines hardware detection and software processing to automatically correct and enhance images from film (Film ICE) and photo prints (Print ICE). For film, Film ICE uses infrared to scan for defect information from scratches, dust particles, dirt particles, marks and fingerprints, and removes them. Print ICE employs differential shadowing technology and software algorithm to identify the precise location of physical defects on the photo being scanned. Surface defects such as scratches, dust particles, dirt particles, folds, creases and tears are then detected and corrected.

In addition, EPSON Scan ver 2.0 provides software-based editing functions like Color Restoration, Dust Removal and the new Grain Reduction function for added versatility. Grain Reduction reduces the 'sandy' and rough appearance of enlarged images from film by applying a filter that smoothens the image.

digital ICE technology

BEFORE

SURFACE DEFECTS

AFTER

Color Restoration

Professional Quality

EPSON Perfection™ 4870 Photo is engineered with a Moving Carriage-Type TPU that creates brighter lamp intensity to produce improved image quality. Complemented with MatrixCCD technology and the revolutionary On-chip Microlens, the scanner uses Micro Step Drive and high 16-bit gradation to generate clearer images with brilliant colours. Enjoy the premium resolution of 4800 dpi and a maximum optical density of 3.8 for more detailed film scan.

Breakthrough in Speed

Scan photographs or films with dazzling speed. The Moving Carriage-Type TPU enhances the scanning time of negative film by achieving a brighter luminance and using a bluish lamp to expedite exposure time. Equipped with a high speed Application Specific Integrated Circuit (ASIC) hyper processor, image-processing time is shortened. Together with the bundled large film holders that can load more films in a variety of sizes for simultaneous scanning, and high speed interface ports USB 2.0 Hi-Speed; IEEE1394; negative and positive films are scanned faster.

Convenient and Versatile

Choose scan applications easily from the improved user interface of EPSON Smart Panel ver 3.1 that features merged application applets and larger thumbnails for image preview.

Other bundled software includes ABBYY FineReader SPRINT 5.0 PLUS, an optical character recognition (OCR) software; Adobe Photoshop Elements 2.0, for photo re-touching; and LaserSoft SilverFast SE 6, a scan and imaging software.

EPSON Perfection™ 4870 Photo is easily connectable to your PCs or Macintosh® with Hi-Speed USB 2.0 or IEEE1394 Interfaces.