

EPSON®

Epson Stylus® Pro 4000

Astonishing image quality. Amazing speed. Awesome 17" inch width.





Graphic Design

Comps and Layouts | Packaging Mock-ups
Pre-press Proofing | Signage



© 2005 Douglas Dubler's Photography

13" x 19" comps in 1:44 min:sec | production prints in 2:23 min:sec | contract quality proofs in 7:49 min:sec



Professional Photography

Commercial | Fine Art | Event
Portrait | Nature | Black & White



8" x 10" photos in 3:48 min:sec | 16" x 20" photos in 10:25 min:sec



Engineering Scientific

GIS Mapping | CAD | Architecture
Scientific Visualization



Satellite image courtesy of Space Imaging

17" x 22" photographic renderings and maps in 5:58 min:sec | 17" x 22" draft plots in 1:30 min:sec

Advanced 17" Wide Desktop Printer for Professionals.

Epson is the standard by which all other photographic ink jet printers are measured. So when we decided to build a next-generation desktop printer, it had to be a breakthrough.

The result is the all-new Epson Stylus Pro 4000 desktop printer. Designed to meet the needs of the most demanding professionals, the Epson Stylus Pro 4000 incorporates a unique 17" wide printer design with all of our latest ink, print head, and printer engine technologies, ensuring your creative vision will be produced without compromise.

Utilizing Epson UltraChrome™ Ink technology, you'll produce archival prints with amazing color fidelity, while providing consistently stable colors that significantly outperform standard dye ink technologies. In order to maximize the use of this remarkable ink technology, we've developed a unique 8-channel print head capable of handling eight separate ink cartridges simultaneously. This allows the Epson Stylus Pro 4000 to handle both Photo Black and Matte Black inks at the same time in order to maximize the black density on virtually any media type.

Even more remarkable, the new high-performance 1" wide print head produces an astonishing resolution of 2880 x 1440 dpi to deliver a level of image quality and speed that even exceeds our previous best.

Handling virtually any media type in roll or cut-sheet up to 17" wide, the Epson Stylus Pro 4000 even incorporates a high-capacity paper tray capable of handling cut-sheet media up to 17"x 22". Choose from four different ways to load media, including a front-loading straight-through path for media up to 1.5mm posterboard, giving you the ultimate in media flexibility.

The Epson Stylus Pro 4000 represents the highest level of Epson printer technology to date. From photographic quality and high-performance print speeds to breakthrough ink technology and media handling, the Epson Stylus Pro 4000 combines innovative technology with extraordinary performance and value, allowing you to work faster while giving you the ultimate creative edge.

Welcome to the Future of Print Head Technology

All New 8-Channel Print Head Technology

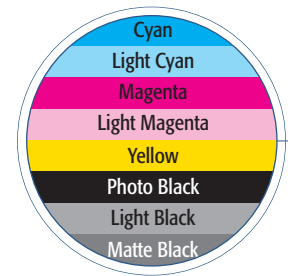
- Print head design capable of handling eight separate ink channels
- 1" wide, high-performance print head
- 180 nozzles per channel x 8
- Two user-exchangeable ink modes – Photographic or Dual CMYK

The **Photographic Ink Mode** is ideal for any photographic or graphic design project where image quality is important. It uses Cyan, Light Cyan, Magenta, Light Magenta, Yellow, Photo Black, Light Black and Matte Black.

The **Dual CMYK Ink Mode** takes advantage of our Matte Black ink technology to produce outstanding photographic prints on plain paper. It uses two of each primary color to deliver speeds up to 98% faster than the Photographic Ink Mode and is the perfect solution for engineering/scientific applications like CAD or GIS mapping.

Maximum Resolution of 2880 x 1440 dpi

- Incredibly sharp text and line art rivaling a final printing press
- Extremely fine blends and photographic transitions



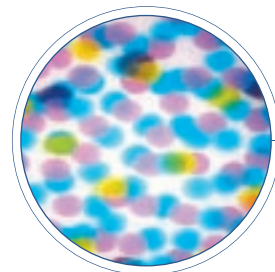
7-Color Epson UltraChrome Ink with 8-Channel Print Head Technology

Includes both Matte and Photo Black inks for automatic switching between black modes



Intelligent High-Capacity Ink System

8 individual ink cartridges available in 110ml or 220ml sizes



True 2880 x 1440 Resolution

With variable droplets as small as 3.5 picoliter

(microscopic enlargement shown above)

Variable Droplet Micro Piezo® DX3™ Technology

- Produces variable-sized droplets as small as 3.5 picoliter
- Greatly decreases print times while optimizing photographic quality
- Proprietary DX3 ASIC technology controls the printing process resulting in consistent image quality and color output from print to print

Award-winning Ink Technology

7-Color Pigmented Inking System with Built-in Matte Black[^]

- Printer automatically switches between Photo Black and Matte Black ink modes to optimize black ink density on any media type
- Extremely wide color gamut for the most demanding color requirements

- No perceivable short-term color shift for stable prints immediately after printing
- Excellent water and lightfastness

Exclusive Light Black Ink for Superior Photographic Reproduction[^]

- Significantly improves the printer's gray balance while eliminating color casts
- Dramatically improves the midtones and highlights for smoother transitions
- Enhances the ICC profiling process for ColorSync™ and ICM™ workflows

Professional Level Black & White Photographic Printing[^]

- Produces a truly consistent image with little color crossover or colorcasts



- Reduced metamerism on 7-color black & white prints
- Depending upon media, produces a black D-max up to 2.1
- Produces sellable quality neutral or toned black and white prints

Unique 17" Wide Print Engine Technology

Professional Media Handling

- Prints on virtually any media type in roll or cut sheet up to 17" wide
- Built-in high-capacity paper tray handling up to 250 sheets of plain letter-sized paper or up to 50 sheets of photographic media at 17"x 22"
- Can print on both sides of the media without damaging the previously printed side
- User-adjustable Roll Media Spindle accepts either 2" or 3" media cores
- Four built-in media paths including roll feed, cut-sheet tray, front-top manual feed, and a straight-through front manual feed handling weights up to 1.5mm thick
- Built-in automatic media cutter



Auto Head Alignment & Nozzle Check Technology

Built-in white beam sensor precisely aligns and checks all color channels automatically



Professional Level ICC Profiles

All new RGB ICC profiles for extremely accurate color out of the box



Print on Virtually any Media Type

Roll or cut sheet up to 17" wide

True BorderFree™ Printing

- Capable of printing off both left and right edges of roll based media, while automatically cutting top and bottom edges to produce a full-bleed print on all four sides
- Fully trims your finished prints more accurately and safely than by hand

High Performance Print Engine Speeds®

The Epson Stylus Pro 4000 utilizes our latest print head technology – making it one of the fastest ink jet printers ever made by Epson.

- For graphics and prepress proofing, everyday production quality 13" x 19" prints can be produced in 2:23 min:sec and contract quality proofs can be produced in 7:49 min:sec
- For professional photography, photo lab quality 8" x 10" prints can be produced in 3:48 min:sec and 16" x 20" prints in 10:25 min:sec
- For CAD and GIS, draft quality 17" x 22" prints can be produced in 1:30 min:sec and photo quality 17" x 22" prints can be produced in 5:58 min:sec

Epson Intelligent High-Capacity Ink System

- Eight 110ml or 220ml ink cartridges with automatic tracking of key data points such as ink levels, ink type and usage rates, for accurate production cost estimates
- Greatly increases productivity by replacing ink cartridges on the fly, even during the middle of a print job, with no loss in image quality or production time
- Utilizes both 110ml and 220ml ink cartridges simultaneously to further optimize ink usage

Superior Connectivity

- Includes one USB (1.1/2.0), one IEEE 1394 (FireWire®) and one Epson Expansion Slot for installing the optional 10/100 BaseT Ethernet card
- Enhanced Epson Photographic Drivers for Macintosh® and Windows® allowing for complete ink density control even when driver color management is turned off
- For graphic designers, an optional Epson Stylus RIP Professional 2.0 software RIP is available – featuring true Adobe® PostScript® 3
- Fully supported by most leading third-party RIPs and workflows – the Epson Stylus Pro series printers are used within the most demanding printing environments

World Class Service and Support

- Free one-year of coverage under the Epson PreferredSM Protection Plan with toll-free telephone support available Mon.-Fri. and usually next-business-day full unit exchange
- Optional one or two-year Epson Preferred Plus Service plans available

Epson Stylus Pro 4000 Print Engine Specifications

Printing Method

8 Channel Print Head Technology
Using: 7-color (CcMmYk + PK or Mk) or
4-color (CCMMYYMkMk)

Variable Droplet Micro Piezo DX3 drop-on-demand
ink jet technology

Epson UltraChrome Ink Technology

Nozzle Configuration

Color and Monochrome heads: 180 nozzles x 8

Black Ink Mode Configurations

7-color Print Mode:
Photo-K or Matte-K + Light-K

Photo-K and Matte-K inks automatically switch
depending upon media selection within printer driver

4-color Print Mode:
Matte-K + Matte-K

Droplet Technology

Smallest droplet size: 3.5 picoliter
Variable Droplet Technology can produce various
droplet sizes per print line

Resolution

2880 x 1440 dpi; 1440 x 720 dpi; 720 x 720 dpi;
720 x 360 dpi; 360 x 360 dpi; 360 x 180 dpi

Print Engine Speed³

7-color Print Mode:
Letter prints from 50 secs to 9:30 – 1440 dpi is 3:40
13"x 19" prints from 1:44 to 18:44 – 1440 dpi is 7:49

4-color Print Mode:
17"x 22" prints from 1:30 to 5:58 – 720 dpi is 2:09

Acoustic Noise Level

Approximately 50 dB(A) according to ISO 7779

Printer Language/Drivers

Epson ESC/P2 Raster Photographic Drivers standard

External server based Adobe PostScript 3 with
optional software RIP. Also supported by most
leading third-party RIPs and workflows

Operating Systems Supported

Macintosh® OS 8.5.1 through OS X
Windows® 95, 98, Me, NT 4.x (Service Pack 3
and later), 2000, and XP

Printer Interfaces

Includes one USB (1.1/2.0 compatible),
one IEEE 1394 (FireWire) and one Epson
Expansion Slot used for installing the optional
internal 10/100 BaseT Ethernet card

Dimensions

33.4" (W) x 14" (H) x 30" (D)
Printer weight: 83.7 lb

BorderFree Printing

Left and right borderless "bleed" printing
for the following media widths:
8", 8.5", 10", 12", 13", 14", 16", 17"

Top and bottom edges can be automatically cut to any
length three different ways during printing on roll media

Printable Area

Maximum paper width 17"
Left and right margins 0 or 3mm each (0.24" total)
Top and bottom margins 0 or 3mm or 14mm each
Maximum printable width 17.16"
Maximum printable length Up to 100' (limited by roll length)
(limited by software application)

Media Handling

Roll media size Single roll up to 17" width
Roll media length Up to 132' (limited by core dia.)
Cut sheet input tray size Up to 17"x 22"
Cut sheet media input Up to 250 sheet tray, top and
rear manual feed slots
Media core compatibility Handles both 2" and 3" cored media
Max. roll media diameter 4" (2" core) or 6" (3" core)
Weight 12 lb bond up to 1.5mm cardboard
Built-in media cutter Automatic and manual cutting

Line Accuracy

+ or – 0.2% of specified page length

Epson Intelligent Ink Cartridge

Ink cartridge size 110ml or 220ml
each color x 8 colors total
Ink cartridge shelf life 2 years from printed production
date or 6 months after open

On cartridge I.C. chip automatically tracks several ink
usage data points for use in very accurate production
cost estimations and reporting

Lightfastness Ratings^c

Epson UltraChrome Ink Color: Up to 85 years
B&W: Over 100 years

Environmental Characteristics

Temperature operating 50° to 95° F (10° to 35° C)
Storage -4° to 104° F (-20° to 40° C)
Humidity operating 20 to 80% relative humidity
Storage 5 to 85% relative humidity
(no condensation)

Safety Approval

Safety standards UL1950, CSA 22.2 950 FDA
EMI FCC Part 15 subpart B class B,
CSA C108.8 class B
AS/NZS 3548 class B

Engine Reliability

Total print volume ~20,000 A2 pages at 360 x 360 dpi
Print head life 8.4 billion shots per nozzle
Cutter life ~2,000 times (coated media)
Maintenance parts Pump unit, flushing box, RTC battery,
head cleaner, cap assembly

Electrical Requirements

Voltage AC120V or (220V to 240V)
Frequency 50 to 60 Hz
Current 1.0A / 100-120V
Power consumption Approx. 59W (operating)
< 21W (standby)
< .7W (power off mode)
Energy Star compliant

Product/Accessories

Epson Stylus Pro 4000 Print Engine C511001UCM
Epson Stylus Pro 4000 Graphic Arts Bundle C511001GAN
Epson Stylus Pro 4000 Engineering Bundle C511001CAD

Epson Stylus Pro 4000 C4000STAND
Printer Cabinet Stand

Epson Stylus RIP Professional 2.0 C12C842972
Software RIP

Internal 10/100 BaseT C12C824052
Ethernet Type-B Card

Paper Roller Spindle C12C811171
(Normal Tension) – 2" or 3"

Paper Roller Spindle C12C811191
(High Tension) – 2" or 3"

Replacement Printer C12C815291
Cutter Blade

Replacement C12C890071
Ink Maintenance Tank

Additional One-year Epson EPP40EX1
Preferred Plus Service

Additional Two-year Epson EPP40EX2
Preferred Plus Service

Epson UltraChrome Ink (110ml) (220ml)

Photo Black ink cartridge	T543100	T544100
Cyan ink cartridge	T543200	T544200
Magenta ink cartridge	T543300	T544300
Yellow ink cartridge	T543400	T544400
Light Cyan ink cartridge	T543500	T544500
Light Magenta ink cartridge	T543600	T544600
Light Black ink cartridge	T543700	T544700
Matte Black ink cartridge	T543800	T544800

^a Available only when using the Photographic Ink Mode (7-color Ink Configuration)

^b Based upon print engine speed only. Total throughput times depend upon front-end RIP, file size,
printer resolution, ink coverage, networking, etc.

^c Ink lightfastness rating based on accelerated testing of prints on specialty media, displayed indoors,
under glass. Actual print stability will vary according to media, printed image, display conditions,
light intensity, humidity, and atmospheric conditions. Epson does not guarantee longevity of prints.
For maximum print life, display all prints under glass or lamination or properly store them.
Visit www.wilhelm-research.com for the latest information.

EPSON

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EPSON ULTRACHROME
INK

Adobe PostScript 3

DX3

energy
EPA POLLUTION PREVENTER

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