



EPSON Expression® 1640XL

Color Flatbed Scanner

The high resolution, 1600 dpi, large-format scanner for graphic arts professionals.

With superior image quality, speed, and versatility, the EPSON Expression 1640XL has all the features you desire most as a graphic arts professional. This economical, high performance scanner offers an incredible 1600 x 3200 dpi hardware resolution and 42-bit color depth for spectacular results with every scan. By achieving a 3.6 Dmax, it delivers a broad dynamic range with excellent shadow detail.

Featuring the exclusive ColorTrue® II Imaging System, the EPSON Expression 1640XL combines custom optics, superior image processing, Dynamic Range Control, a xenon lamp, and Color MatrixCCD™ technology for enhanced colors and pinpoint registration.

Best of all, this durable unit speeds through each task. In fact, it's one of the fastest scanners in its class. For added convenience, its custom film holders make batch scanning easy. You can use the EPSON Expression 1640XL to scan reflective media up to 12.2" x 17.2" and, with the optional transparency unit, transparencies up to 11.4" x 16.5". When activated, the AutoFocus optics system adjusts automatically for clear, precise scans every time.

Ideal for scanning transparencies, illustrations, and even architectural renderings, the EPSON Expression 1640XL is available in two configurations, the Graphic Arts model and the Special Edition model. Both models include a premium software package. The Graphic Arts model also includes LaserSoft® SilverFast® 5, a powerful prepress scanning application used to sharpen and descreen images or control color balance, tonal curves, highlights and shadows.

With its incredible color accuracy, broad tonal range, and vivid detail, the EPSON Expression 1640XL is the ultimate partner for high quality, large-format ink jets. This professional scanner is fast, reliable and surprisingly affordable. Team it with an EPSON Stylus® Pro 7000 Series printer for the perfect input/output solution!

For increased productivity and remarkable results, the solution is simple – the EPSON Expression 1640XL.

Features and Benefits

1600 x 3200 dpi hardware resolution

Delivers remarkable resolution and extraordinary image quality

Large-format scanning capability

Accommodates photos and 3-D objects in a 12.2" x 17.2" scanning area (up to 6mm focus depth); optional transparency unit available for scanning transparencies and negatives

ColorTrue II Imaging System and 42-bit color depth

Produces smooth gradations and accurate color; captures over 4 trillion colors and 16,000 shades of gray

High dynamic range (3.6 Dmax)

Accurately scan each image, including subtle detail found in highlights and shadows

AutoFocus optics system

Automatically focuses for sharp, true scans

USB and SCSI connectivity with optional FireWire®

Provides trouble-free setup and installation for Windows® and Macintosh® systems

Premium Software Bundle

Adobe® Photoshop® LE (image editing software)
MonacoEZcolor™ (color calibration software)
NewSoft™ Presto!® PageManager®
(document management software)
ScanSoft® TextBridge® Pro OCR
LaserSoft SilverFast 5*

* Included only with the EPSON Expression 1640XL Graphic Arts model



EPSON Expression 1640XL

Shown here with standard lid

Shown in top corner with optional transparency unit

EPSON Expression 1640XL

Scanner Type	Flatbed color image scanner
Scanning Method	Movement of reading mirror
Photoelectric Device	Color MatrixCCD™ Line Sensor
Maximum Read Area	12.2" x 17.2" (310mm x 437mm)
Light Source	Xenon gas cold cathode fluorescent lamp
CCD Resolution	1600 dpi
Hardware Resolution	1600 x 3200 dpi with Micro Step Drive™ technology
Maximum Resolution	12,800 x 12,800 dpi with interpolation
Effective Pixels	19,520 pixels/line (1600 dpi)
Image Data	
Color Depth	42 bits per pixel internal/external 24 bits per pixel internal/external (selectable)
Grayscale Depth	14 bits per pixel internal/external 8 bits per pixel internal/external (selectable)
Line Art	1 bit per pixel
Scaling (Zoom)	50% to 200% (1% step)
Optical Density	3.6 Dmax
Brightness	7 levels
Reading Sequence	One-pass scanning
Focus Control	AutoFocus optics system (CCD and lens unit)
Scanning Speed (1600 dpi, draft mode)	
Color	13.2 msec/line (approx.)
Grayscale	4.5 msec/line (approx.)
Line Art	4.5 msec/line (approx.)
Operating Systems Supported	
Macintosh	Macintosh OS 8.0 or later
PC	Windows 95, 98, 2000 or NT 4.0
Windows Minimum System Requirements	
IBM compatible PC with Pentium® equivalent or higher processor 64MB RAM recommended	
SCSI	Requires ASPI-compliant compatible Fast SCSI, Ultra or Ultra 2 SCSI PCI Card
USB	USB port equipped PC systems with Windows 98 (factory installed) or Windows 2000
IEEE 1394 FireWire	FireWire port equipped PC systems (OHCI compliant) with Windows 2000
Macintosh Minimum System Requirements	
PowerPC™ processor or higher 64MB RAM recommended	
SCSI	Requires Power Macintosh system with built-in SCSI port or a Mac-compatible PCI SCSI/SCSI-2 card with Mac OS 8.0 or later
USB	iMac, G3, G4 or USB port equipped Power Macintosh systems with Mac OS 8.5 or later
IEEE 1394 FireWire	iMac DV, Power Macintosh, G3, G4 and FireWire port equipped Power Macintosh systems with Mac OS 8.6 with FireWire Update 2.1 or later

Interface SCSI-2 and USB standard, IEEE 1394 FireWire optional

Configurations

Special Edition Model

EPSON TWAIN Pro Scanner Utilities
Adobe Photoshop LE
MonacoEZcolor
NewSoft Presto! PageManager
ScanSoft Textbridge Pro OCR
USB cable

Graphic Arts Model

EPSON TWAIN Pro Scanner Utilities
Adobe Photoshop LE
MonacoEZcolor
NewSoft Presto! PageManager
ScanSoft Textbridge Pro OCR
LaserSoft SilverFast 5
USB cable

Reliability

MCBF 100,000 cycles

Environmental Conditions

Temperature Operating 41°F to 95°F (5°C to 35°C)
Humidity Operating 10% to 80% (no condensation)
Storage 10% to 85% (no condensation)

Power Requirements

Voltage AC 100V-120V, 220V-240V
Frequency 50-60Hz
Power consumption 45W operating w/o optional unit
55W operating w/optional unit
12W standby w/o optional unit

Physical Dimensions

Width 25.8" (656mm)
Depth 18.0" (458mm)
Height 6.9" (176mm)
Weight 48.4 lb (22 kg approx.)

Product/Accessory Part Numbers

EPSON Expression 1640XL Special Edition	E1640XL-SE
EPSON Expression 1640XL Graphic Arts	E1640XL-GA
Transparency Unit	B813202
Automatic Document Feeder	B813212
IEEE 1394 FireWire scanner interface card	B808342

Warranty

One year limited warranty in the U.S. and Canada

Support-The Epson Connection™

Pre-sales support U.S. and Canada	800-463-7766
Automated Technical Support	800-922-8911
Internet Website	www.epson.com



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www.epson.com

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