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**
Accomodates 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

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**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 Matrix CCD™ 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
- **Grayscale Depth**: 14 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 41ºF to 95ºF (5ºC to 35ºC)
- **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
- **ScanSoft TextBridge Pro OCR**: 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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