Take the Fast Track to Superior Quality Film Scans

- Max. 4,800dpi input resolution
- 16-bit A/D conversion and wide 4.8 dynamic range
- Compatible formats: medium-format 120/220 film (6x4.5, 6x6, 6x7, 6x8, 6x9), 35mm film, 16mm film, Transmission Electron Microscope film, and microfilm in aperture cards
- Image enhancement via Digital ICE™ technology
- Rapid interfaces: Ultra SCSI and IEEE1394
Minolta raises the standard for desktop film scanning with its sophisticated and compact multi-format scanner, the DiMAGE Scan Multi PRO. It comes with a comprehensive set of features geared towards professional-level use. First, there’s the extended range of compatible film formats. There is also the high-performance CCD and innovative Minolta lens combination, which produces images with higher resolution and more faithful colours. A fast interface and user-friendly software boost productivity with virtually any scanning job, and Digital ICE<sup>STM</sup> technology—Digital ICE<sup>TM</sup>, Digital ROC<sup>TM</sup>, and Digital GEM™—enhances both quality and productivity as well. When it comes to professional, multi-format scanning needs, the DiMAGE Scan Multi PRO is truly an imaging essential.

**Extensive range of compatible formats**

A wide range of standard accessories sets the DiMAGE Scan Multi PRO apart from the rest.

The 35mm Film Holder accepts filmstrips with up to six frames, and has finger holes that make it easy to secure the film into place.

The Slide Mount Holder can be used with mounted slides of either 35mm or Advanced Photo System format.

And the Universal Holder, with its many attachments, facilitates scanning of diverse sources. The Standard Attachment (for 120/220 film) with glass, for example, protects medium-format film from dust and possible damage. An attachment without glass is also available, as are masks for all five sizes: 6 x 4.5, 6 x 6, 6 x 7, 6 x 8, and 6 x 9.

Furthermore, the Multi Format Attachment<sup>®</sup> can be used to scan sources of special sizes—16mm film, Transmission Electron Microscope film, microfilm in aperture cards, microscope slides, and even smears and mineral specimens. An optional Multi Format Mask comes with scales printed to simplify cutting. <sup>*Optional</sup>

For all film formats, the DiMAGE Scan Multi PRO handles both negatives and positives, in monochrome or in colour.
MAX. 4800 dpi

**Leading edge scan resolution**

With a maximum resolution of 4,800dpi, the DiMAGE Scan Multi PRO offers class-leading scanning performance with various film formats, from 35mm to 120/220 films. At this level of resolution, your image data is detailed enough to turn into sharp, quality printouts in large sizes. The scanner’s core component, a 7,260 pixel 3-line colour CCD, is enhanced by the inclusion of a dual focus point lens system, the product of Minolta’s expertise in high-precision optics. This combination makes it possible to produce superior quality scans from any of the compatible film types.

Note: With film formats larger than 35mm, 4,800dpi resolution is achieved through interpolation in the main scanning direction.

**Enhanced colour reproduction**

The DiMAGE Scan Multi PRO uses 16-bit A/D conversion to differentiate 65,536 gradations in each RGB channel—sixteen times the amount detectable by 12-bit scanners. This high degree of accuracy results in images with richer tonal variations, smoother gradations, and a greater amount of visible detail in shadow areas. Colour fidelity is further supported by a wide 4.8 dynamic range, which comes from the CCD, high signal-to-noise ratio, and low-noise circuitry. Another feature, multi-sample scanning, reduces random noise by averaging the sampled images.

**Accurate colour matching**

Colour matching ensures that images produced by the scanner are reproduced with maximum fidelity across different monitors, operating systems, and image editing software. The upgraded DiMAGE Scan Multi PRO colour matching system supports a large variety of colour spaces.

**Improved negative-to-positive conversion**

Negative film has varying characteristics depending on which manufacturer it’s from, the scene it captures, or shooting conditions. By using an improved image correction process, however, the DiMAGE Scan Multi PRO optimises colour reproduction of negative film sources.
Innovative image enhancement technology

Digital ICE™ (Image Correction & Enhancement) removes flaws detected on the surface of the film—such as dust, scratches, mould, and fingerprints—without altering the image underneath. The DiMAGEScan Multi PRO needs only a single scanning pass to put this process into effect.

Digital ROC™ (Reconstruction Of Colour) revives an image with diminished colours by using the information found on the film’s dye signature to guide the restoration process. This feature is especially useful when working with old film that has noticeably diminished colour quality.

Digital GEM™ (Grain Enhancement & Management) cleans up images that suffer from a rough, grainy look caused by the clumping of extremely fine grains found on the film. This technology analyses and then removes the unsightly patterns to bring images closer to their original state of colour and sharpness—a process that’s virtually impossible to replicate through conventional post-scan image retouching.

Dust and scratch removal

Digital ICE is recommended primarily for use with colour film; Digital ICE, however, can also be used with chromogenic black and white film. Digital ICE is not recommended for use with Kodachrome film. Scanning time will increase when using any of the three functions.

Digital ICE, Digital ROC, and Digital GEM are technologies developed by Applied Science Fiction™, Inc.
Rapid data transfer
Data transfer time, one of the biggest factors affecting scanner productivity, is given a tremendous boost with the addition of two high-speed interfaces: Ultra SCSI and IEEE1394 (FireWire). These interfaces are essential to efficient task completion with data-intensive film scanning, and can save you a considerable amount of overall work time, especially when working with multiple images.

Minolta’s exclusive focusing system
Thanks to its rapid autofocus calibration, the DiMAGE Scan Multi PRO offers fast overall autofocus time. What’s more, Minolta’s proprietary focus adjustment technology—which uses a film grain detection method—makes sure that even low contrast images are accurately scanned. The DiMAGE Scan Multi PRO provides other options, such as Point AF and manual control for precision focusing in ±200 steps. This array of functions gives you flexible focus control over practically any type of image.

Fast, easy operation with the Custom Wizard
The Custom Wizard menu greatly simplifies the scan setting process, allowing you to quickly obtain the correct type of scan from a particular film source. AF, Digital ICE³, Auto Crop and other features can be preselected in various combinations, and then enacted on an entire series of frames loaded in the scanner. Customised settings can be saved with the Custom Wizard, for instant call up whenever you wish to scan a different group of images using the same settings.

Ideal for intensive scanning jobs
Not only does the DiMAGE Scan Multi PRO offer rapid scanning, but it also speeds work along through its fast auto loading and continuous scanning capabilities. With 35mm filmstrips, you can choose to scan either all six frames or just a few selected frames at once. Or, using the Slide Mount Holder, you can load up to four mounted slides into the scanner, and later keep replacing a single slide without extracting the holder from the scanner.

Advanced image correction functions
Naturally, the DiMAGE Scan Multi PRO comes equipped with a full array of image correction functions. Adjustable parameters include tone-curve/histogram, colour balance, hue/saturation, unsharp mask, and more. When using the Variation Correction palette, the compensation window conveniently displays thumbnails of the different adjustments made to the current image. Other useful functions—such as preview image trimming, colour selection, and prescan size selection—are also provided.

Other Features
- Compact desktop design (W168 x H128 x D377 mm)
- Auto power save function that extends lamp life
- Compliant with the Energy Star program for energy-efficient operation
**SPECIFICATIONS**

**Film type***  
35mm film, Medium format film (120/220),  
With the optional Multi Format Set: 16mm film, Transmission  
* Film: colour / monochrome, negative / positive available  

**Optical resolution**  
35mm film: Max. 4800 x 4800 dpi  
Medium format film (120/220): Max. 3200 x 4800* dpi  
* Max. 4800 x 4800 dpi by interpolation

**Scan size & input pixels**  
35mm: 25.02 x 37.08 mm, Max. 4728 x 7008 pixels  
6 x 9 film: 56.58 x 83.82 mm, Max. 10692 x 15840 pixels

**Scan method**  
Fixed film, moving sensor, 1-pass scan

**Sensor**  
3-line CCD with RGB primary colour filter, 7260 pixels / line

**Multi-sample scanning**  
2X, 4X, 8X, OFF

**Continuous scan**  
35mm Film Holder: Max. 5 frames  
Slide Mount Holder: Max. 4 frames

**Scan time**  
(Digital ICE off, 4800dpi, 8bit, positive)  
(approx.)  
Windows [IEEE1394]:
- Preview: 9s  
- Final scan: 45s  
- Preview: 10s  
- Final scan: 50s

Macintosh [FireWire]:
- Preview: 13s  
- Final scan: 230s  
- Preview: 15s  
- Final scan: 250s

**A/D conversion**  
16-bit

**Output data**  
8-bit, 16-bit (per colour channel)

**Optical density**  
4.8 dynamic range

**Light source**  
3-wave fluorescent lamp

**Focus**  
Autofocus (Point AF available), Manual focus

**Interface**  
Ultra SCSI: D-sub half-pitch 50p x 2  
IEEE1394: IEEE1394 6p x 2

**Power Requirements**  
AC 100~240V, 50 / 60Hz, Max. power consumption: 40 W

**Dimensions (WxHxD)**  
188 x 128 x 377 mm

**Weight**  
Approx. 4 kg

**Standard accessories**  
35mm Film Holder FH-P1  
Slide Mount Holder SH-P1  
Universal Holder UH-P1  
Standard Attachment HA-P1  
Glassless Attachment HA-P2  
Film Mask Set FM-P1 (6x4.5, 6x6, 6x7, 6x8, 6x9)  
SCSI Cable SC-P1  
IEEE1394 Cable FC-P1  
CD-ROM for DiMAGE Scan Multi PRO  
Multi Format Set  
(Multi Format Attachment HA-P3, Multi Format Mask FM-P2, Pins P1-1)

---

**Specifications and accessories are based on the latest information available at the time of printing and are subject to change without notice.**

---

**PC SYSTEM REQUIREMENTS**

<table>
<thead>
<tr>
<th>Computer</th>
<th>Windows: IBM PC/AT compatible models†* ††</th>
<th>Macintosh: Apple Macintosh models**</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Interface</td>
<td>SCSI</td>
<td>SCSI</td>
<td>FireWire.FireWire port as standard</td>
</tr>
<tr>
<td>CPU</td>
<td>Pentium 166 MHz or later</td>
<td>Pentium II or later</td>
<td>PowerPC 604 or later</td>
</tr>
<tr>
<td>RAM</td>
<td>16MB or larger</td>
<td>Free memory of 64MB or larger</td>
<td></td>
</tr>
<tr>
<td>Monitor</td>
<td>640 x 480 pixels, 1024 x 768 pixels or larger recommended</td>
<td>640 x 480 pixels, 1024 x 768 pixels or larger recommended</td>
<td></td>
</tr>
<tr>
<td>No. of colours</td>
<td>16-bit high colours or more</td>
<td>32,000 colours or more</td>
<td></td>
</tr>
<tr>
<td>HD free space</td>
<td>20MB for installation</td>
<td>20MB for installation</td>
<td></td>
</tr>
<tr>
<td>Recommended boards</td>
<td>Adaptec SCSI Card: 19160, 29160, 29160N</td>
<td>Adaptec APW-4200 OHCI-compliant IEEE1394 port as standard††</td>
<td>Adaptec PowerDomain: 2940UV, 2940UVW, 2930U, 29160N</td>
</tr>
<tr>
<td>Others</td>
<td>Adobe Photoshop ver. 4.0.1 / 5.0.2 / 5.5 / 6.0 / 5.0LE have been fully tested for use with the TWAIN driver software.</td>
<td>Adobe Photoshop ver. 5.0.2 / 5.5 / 6.0 / 5.0LE have been fully tested for use with the Photoshop plug-in driver software.</td>
<td></td>
</tr>
</tbody>
</table>

---

† Only for PCs with pre-installed operating systems. †† Excludes notebook PCs. ††† Non-DV-dedicated IEEE1394 port guaranteed by PC manufactures.

CD-ROM drive is required for software installation.

Additional system capabilities are required to use Digital ICE³ with 16-bit output.

Please note that error-free operation is not guaranteed for any of the systems recommended.

Please refer to the Minolta website for the latest information on PC system requirements.

---

DiMAGE is a trademark or registered trademark of Minolta Co., Ltd.

Digital ICE³ and Digital ICE / ROC / GEM are trademarks or registered trademarks of Applied Science Fiction™, Inc.

Windows is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

Macintosh and FireWire are trademarks or registered trademarks of Apple Computer Inc.

Other corporate and product names are trademarks or registered trademarks of their respective companies.

---

Minolta Co., Ltd.  
3-13, 2-Home, Azuchi-Machi, Chuo-Ku, Osaka 541-8556, Japan

Minolta Europe GmbH  
Minolitaring 11, D-30855 Langenhagen, Germany

Minolta (UK) Ltd.  
[Photo Operations]  
Rooksley Park, Precedent Drive, Rooksley, Milton Keynes, MK13 8HF, England

Photopak Sales  
241 Western Industrial Estate, Naas Road, Dublin 12, Ireland

Minolta Portugal Limitada  
Av. do Brasil 33-A, P-1700 Lisboa, Portugal

For further information:  
www.dimage.minolta.com  
www.minoltaeurope.com

©2001 Minolta Co., Ltd.  
9242-4909-01 M0701 (ME-E)-A1  
Printed in Japan