

Sapphire Pro Image Recorder Specifications

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Ease of Use

Front Panel

- LCD Display - 2 lines of 16 characters (backlit)
- LED status display
- Color-coded push-button menu system
- Digital user adjustments for image size, position, exposure, contrast, time, date, and color balance
- All front panel setups are stored in permanent memory
- One button film load/unload

Auto Notching

(Marking the film for use in dip and dunk or other short roll film processing)

- User selectable strip length : 1-99 frames on both sides of the notch point (or indefinite if notching is disabled)
- User selectable leader: 0-9 frames

Sprocket Label

- Above or below 24mm image area
- Imprint is internally generated for current frame#, time, date, exposure info, 16-character user message, and other operating parameters

Power-Up Tests

- Self diagnostics at each power-up

Test Patterns

- Imaged from host or front panel
- Verification of colors, resolution, alignment, and geometry

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Addressability

	35mm (3:2)
2K	2048 x 1366
3K	3072 x 2048
4K	4096 x 2732
6K	6144 x 4096
8K	8192 x 5464

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Image Quality

- 2K, 3K, 4K, 6K or 8K resolution
- 12 bits of color modulation per primary (68 billion colors)
- Automatic alignment using built in auto-align sensors
- MGI's proprietary high-contrast, low-flare technology
- Photo CD: 1.5K (4* base), 3K (16* base), 64K (64* base)
- Ring Buffer

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Hardware Compatibility

Emulation	Solitaire (GPIB and SCSI)
Interfaces	SCSI: ANSI X3.131-1986 (Two SCSI-1 connectors) GPIB: ANSI/IEEE 488-1978

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Firmware and LUT Upgrades

Internally, firmware is stored in Flash Memory. This allows firmware upgrades, including LUTs, to be downloaded and retained in the Sapphire Pro

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Sticky LUTs

User LUTs may be downloaded and retained in the Sapphire Pro.

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Software Compatible Drivers and File Formats

Will image from most Macintosh, PC and UNIX software drivers. Contact dealer for full listing of compatible drivers.

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Film Transport

- Unified 35mm transport
- Digital Pin Registration
- Digital Geometry Control
- DX bar code reading of cassette film type and roll size
- Removable 100 foot bulk-load magazines
- 36-exposure cassette load capability
- Power cassette rewind
- Easy loading straight film path
- Notcher (Bulk-Load)
- Out-of-film detection by end of film or frame count
- Automatic film cutter (Bulk-Load)
- Self threading take-up magazine
- Jam/Misthread detection

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Film Types (Built-in Color Tables)

- Kodak - Electronic Output Film, Ektachrome 100 Plus Pro*, Ektachrome Elite, Gold 100 Plus*, Vericolor III*
- Fuji - Velvia 50, FujiChrome 100 Pro, FujiColor CN SuperG 100
- Agfa - AgfaChrome 100, AgfaColor HDC 100
- Polaroid - PolaChrome HC; PolaBlue POS, PolaBlue NEG

*For additional film types consult your dealer
Available for PhotoCD Scan Style

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Throughput

GPIB transfer rate	up to 600 kb/sec
SCSI transfer rate	up to 3.0 Mb/sec
Minimum Imaging Time	
2K	35 seconds (100+ slides per hour)
3K	35 seconds (100+ slides per hour)
4K	35 seconds (100+ slides per hour)
6K	50 seconds (72 slides per hour)
8K	50 seconds (72 slides per hour)

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Accessories Included with Sapphire

- User's manual
- Color Quick Guide
- Power cord
- 36-exposure roll of film
- Cleaning cloth

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Other Available Options (contact dealer)

- SCSI cables
- GPIB cables
- Additional bulk supply and take-up magazines
- Programmer's Manual

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Structural Environment

Operating Temp	59° to 86°F (15° to 30°C)
Humidity	35 to 85% (non-condensing)
Storage Temp	-40° to 158°F (-40° to 70°C)
Power	90-120 or 220-240VAC 50 or 60 Hz, self-configuring Consumption < 200 Watts
Dimensions (W x D x H)	20 x 26.5 x 7.5 in. 50.8 x 67.3 x 19.0 cm
Weight	60lbs (27.24 kg)

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