

Gemini Image Recorder Specifications

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Addressability

	Maximum	4x5 (3:4)	35mm (3:2)
2K	2048 x 2048	2048 x 1536	2048 x 1366
4K	4096 x 4096	4096 x 3072	4096 x 2732
8K	8192 x 8192	8192 x 6144	8192 x 5464
16K	16384 x 16384	16384 x 12288	N/A

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Image Quality

- 7-inch vertical CRT, new design for improved contrast and dust free imaging
- High-performance digital and analog circuitry
- Auto calibration by photocell
- Color Look Up Tables - 12 bits per primary (36 bits total)
- More than 68 billion colors

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Interfaces

Interfaces	SCSI: ANSI X3.131-1986 3 MB/second sustained GPIB: ANSI/IEEE 488-1978 600 KB/second sustained
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Throughput

Minimum Imaging Times

	35mm	120/220 slow	120/220 fast	4x5 slow	4x5 fast	8 x 10
2K/4K	0:30	1:40	1:00	8:20	2:10	4:00
8K	0:55	3:10	1:00	8:20	2:10	4:00
16K	N/A	3:10	N/A	16:25	4:15	8:00

Kodak Ektachrome 100 Plus used for imaging times

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Features

Buffering

Optional RAM buffer board (16-256 MB) as well as a built-in 1 MB buffer offer increased throughput capabilities.

Firmware

Firmware is stored in Flash memory.

Digital Geometry Control (DGC)

Automatic alignment of image geometry, including focus, image size, centering, orthogonality, linearity, format, and vignette.

Colorfit

MGI's Macintosh-based color Look Up Table generation software

Auto Format Change

Different camera modules and their formats are automatically recognized as soon as they are mounted on the film recorder. The status of each module (film left in roll, notch counts, etc.) is stored in Solitaire's memory

Quick Change Sub Assemblies

The modular design means Solitaire can be quickly and easily repaired

Slow Scan Mode

Ability to slow imaging speed by a factor of four to produce higher quality images on large format modules.

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Front Panel

Color-coded push-button menu system

Back-lit display -- 2 lines, 16 characters per line. Control buttons include Transport Setup, Lift Pins, Load/Clear and Advance one frame.

Status Line Sprocket Area Labeling

Imprint Solitaire and camera module information in the sprocket area.

Time and Date Clock

Time and date information is displayed on the front panel and, as an option, can be imprinted on film outside the image area.

Density Check Edge Imprint

Large format edge imprint shows grayscale, CMY, RGB and 18% density patches.

Image Position and Size Adjustment

Adjust both image size and image position by percentage from the front panel.

Gamma Control

Increase or decrease the gamma of the Look Up Table from the front panel

Color Correction

Add or subtract red, green, blue or neutral exposure in industry standard CC (Color Correction) units.

Auto Notching

Set strip length and leader frames

Built-in Diagnostics

An extensive self-diagnostics program is executed at every power-up. If a problem does exist, it is pinpointed immediately and displayed on the front panel.

Other Programmable Set-ups

Set scan mode, frame count, GPIB or SCSI selection, auto calibration, default film selection, film roll size, slow host synchronization, and auto frame numbering.

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Accessories Included with Gemini

- User's manual
- Power cord
- Cleaning cloth
- Color Quick Guide

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Other Available Options (contact dealer)

- Buffer board, 16MB (expandable to 256MB)
- Meshkit - a meshkit is an array of data values used during image exposure. Meshkit is a Silicon Graphics based mesh generation application. Custom meshes are available through Management Graphics.
- Camera Modules: 35mm cassette and bulk-load high contrast, MGI Solitaire 120/220 high contrast, MGI 4x5 custom premium high-contrast, MGI 8x10 high contrast (Other Solitaire camera modules may not be compatible with Gemini. Consult factory or your authorized sales representative for more information)

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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	110 VAC +/- 10% 240 VAC +/- 10% 50 or 60 Hz, self-configuring Consumption < 300 Watts
Dimensions	31 x 16 x 23 in. 79 x 41 x 58 cm
Weight	120lbs (54.48 kg)

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