

## Solitaire Cine III FLX Specifications

### Professional Film Recorders for Motion Pictures

As stated by eight-time Oscar winner Dennis Muren of Industrial Light & Magic in a recent issue of **Entertainment Weekly**, "1995's land rush to use computer-generated footage stems from innovations made in a single piece of equipment five years ago, The Solitaire Image Recorder from Management Graphics, Inc. . . "

Solitaire Cine Image Recorders meet the demanding needs of special effects, animation and post-production facilities worldwide. MGI film recorders have been used to image digital special effects in many of Hollywood's biggest blockbuster films, including Toy Story, Forrest Gump, Jurassic Park, Terminator 2, The Mask, Casper and Batman Forever.

### [FLX Camera Module](#)

- [Addressability](#)
- [Image Quality](#)
- [Hardware Compatibility](#)
- [Throughput](#)
- [Film Types and Formats](#)
- [Camera Modules](#)
- [Features](#)
- [Front Panel](#)
- [Accessories](#)
- [Physical Attributes](#)



### Addressability

	Maximum	4x5 (3:4)	35mm Acad. (1.37:1)
<b>2K</b>	2048 x 2048	2048 x 1536	2048 x 1495
<b>4K</b>	4096 x 4096	4096 x 3072	4096 x 2990
<b>8K</b>	8192 x 8192	8192 x 6144	8192 x 5980

[\[Return to top\]](#)

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## Image Quality

- 7-inch vertical CRT, designed for high contrast and dust free imaging
- Special Small Spot
- Auto calibration by photocell
- Color Look Up Tables - 12 bits per primary, 36 bits total
- More than 68 billion colors

[\[Return to top\]](#)

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## Hardware Compatibility

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

[\[Return to top\]](#)

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## Throughput

### Minimum Imaging Times

	35mm Acad. fast	35mm Acad.	4x5*
<b>2K</b>	0:15	0:30	1:30***
<b>4K</b>	0:15	0:30	1:30***

<b>8K</b>	N/A	0:58**	1:30***
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*Kodak Ektachrome 100 Plus used for 4x5 imaging times*

*\*MGI 4x5 CP High Contrast camera module*

*\*\* Consult factory for LUT availability*

*\*\*\* Final test results not available*

[\[Return to top\]](#)

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## Film Types and Formats

Choose from Vistavision, Academy Offset, Full Frame, Slide, and 4x5. Film type support includes Kodak Color Negative 5245 and Kodak Color Reversal 5248 for cine, as well as Kodak Ektachrome 100 Plus for the MGI 4x5 High Contrast and MGI 35mm Cassette High Contrast Modules.\*

*\* Consult factory for LUT availability*

[\[Return to top\]](#)

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## Camera Modules

16mm (Super)	65mm IMAX*
35mm Cine/Academy	35mm Vistavision
35mm Academy Offset	4x5 High Contrast
35mm Slide*	65mm 8 perf*
65mm 5 perf*	

*\* Consult factory for availability dates*

[\[Return to top\]](#)

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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 and LUT Upgrades

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.

**Custom-designed CRT**

Special design with small spot allows users to shoot higher density images

**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

[\[Return to top\]](#)

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## Front Panel

**Color-coded push-button menu system**

Back-lit display -- 2 lines, 16 characters per line. Cine-oriented buttons include transport and setup, lift pins, load/clear and advance one frame.

**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.

**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, and slow host synchronization.

[\[Return to top\]](#)

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## Accessories

**Buffer Board**

Consult factory for buffer board configurations

**Colorfit**

Macintosh based color Look Up Table generation software

**Meshkit**

A mesh is an array of data values used during image exposure. Meshkit is a Silicon Graphics and Sun based mesh generation application. Custom Meshes are available through Management Graphics.

## Physical Attributes

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)
Heat Generation	511 BTU/hr
Power	110 VAC +/- 10% 50 or 60 Hz 240 VAC +/- 10% 50 Hz 300 watts
Dimensions	31 x 16 x 23 in. 79 x 41 x 58 cm without module
Weight	120lbs (54.48 kg)

[\[Return to top\]](#)

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[\[Home\]](#)[\[Text Only\]](#)

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*This information was last updated on 29 June 1999 at 10:54. Any questions or comments should be directed to the [webmaster](#).*

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