

# LFR Mark V and Mark VI

## Digital Photography Models



Lasergraphics introduces the latest and most advanced film recorders in its product line - the 8K Mark V™ and the 16K Mark VI™. These digital film recorders are specifically designed for digital imaging professionals, commercial photolabs, and service bureaus who demand the ultimate in image quality at an affordable price. The Mark V and Mark VI include, at no additional cost, more advanced features than any other film recorders in their price ranges. Both models are specifically designed to produce extremely high quality images in 4x5, 120/220, and 35mm negative or positive film.

### Enhanced Image Quality

- High quality imaging of negative and positive film.
- 4K, 8K, and 16K resolution.
- Specially-designed 7-inch CRT creates image quality detail equal to film recorders costing much more.
- Extended Density Range technology (*patent pending*):
  - Greater tonal contrast and color depth range.
  - Added detail in highlights and shadows.
  - Clean (no halo) negatives for enlarged prints.
- Dynamic Focusing: Image corners as sharp as center.
- Dynamic Intensity Control provides image density that is consistently uniform across the entire image.
- Accurate computer-adjusted geometry and linearity guarantee images that are distortion free and precisely positioned.
- Self calibrating, consistent quality output.

### Fast, Real-World Imaging Speed

- High speed imaging of large raster files with Lasergraphics' RascolPort™ or with SCSI.
- 29MB file at 4,000-line resolution in less than a minute.
- 109MB file at 8,000-line resolution in under 3 minutes.
- 514MB file at 16,000-line resolution in under 11 minutes.\*

### FullCircle Calibration™

- Makes high-quality prints from scans, transparencies, and photo CDs that look like the originals.
- Total imaging process controlled by FullCircle Calibration.
- Quick checking and updating of existing calibration.
- Eliminates costly trial-and-error adjustments.



### Custom-Designed Camera Backs

- Lasergraphics' camera backs are highly optimized to operate with LFR Mark V and Mark VI Digital Photography Models.
- SmartPro™ 4x5 camera back.
- SmartPro™ 120/220 fully automatic camera back.
- SmartBack™ 35mm camera back.

### Multiple-Platform Compatibility

- The Digital Photography Models are fully compatible with Macintosh, Power Macintosh, Windows NT, Windows 95, and Windows 3.1.
- Set-up: Connects directly to a standard Macintosh SCSI connector or to a PC using Lasergraphics' RascolPort or the standard parallel port.
- Easy to install and operate.

\* Mark VI tested with Pentium 90MHz with 32 MB of RAM, using Lasergraphics' RascolPort. Power Macintosh 8500/120, imaging time is 13 minutes, 14 seconds.

To see us is to believe us!



# Specifications of the LFR Mark V and Mark VI Digital Photography Models

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## Addressable Resolution

LFR Mark V Digital Photography Model

- 4000 lines (4096 x 3362 addressable pixels)
- 8000 lines (8192 x 6724 addressable pixels)

LFR Mark VI Digital Photography Model

- 4000 lines (4096 x 3362 addressable pixels)
- 8000 lines (8192 x 6724 addressable pixels)
- 16000 lines (16384 x 13448 addressable pixels)

## Color Resolution

- 36 bits per pixel. Creates 24-bit images with 36 bits per pixel precision.
- 16.8 million colors per image out of a 69 billion color palette.

## Supported Film Types

- Custom film look-up tables for various Kodak and Fuji positive and negative films.

## Lasergraphics' Custom-Designed Camera Backs

- 100% Lasergraphics custom-designed and manufactured camera backs.
- Custom-designed fully coated optics for optimum performance.
- All lenses are computer focused for optimum image clarity.
- Sixteen character display for operator convenience.
- Operates only when film is properly loaded.
- Retains valid status information with power off, or when disconnected from film recorder.
- Highly optimized to operate with Lasergraphics' LFR film recorders.

## Power Requirements

- 90-250V ~50/60Hz 2A

## Environmental Characteristics

- Temperature: 15°C to 30°C.
- Humidity: 15% to 85% relative humidity non-condensing.

## Physical Parameters

- 13" H x 14" W x 28" L, 86 lbs. (33 cm x 36 cm x 71 cm, 39 kg) without camera.
- Film recorder fits flush against back wall. Recessed connector area provides convenient access.
- Fits on desktop as narrow as 26" deep.

## Warranty

- One year parts and labor. Extended warranty available.

## Lasergraphics Image Management Software

### WinRascal™ Software

- Compatible with Windows NT, Windows 95, and Windows 3.1.
- Raster formats can be added directly to the WinRascal print manager. These include TARGA, TIFF, and PSD (Adobe Photoshop format) file formats.
- Windows applications can print directly to the WinRascal print manager using Lasergraphics' printer driver.
- BLL (Binary Lasergraphics Language) files created using Lasergraphics' BLL driver on PC or Macintosh computers can be added directly to the WinRascal print manager.
- PostScript compatible through the Lasergraphics RISC Rascal Plus (hardware option), or imageworx™ for Windows.

### MacRascal™ Software

- Macintosh OS 7.x or later recommended.
- Raster formats can be added directly to the MacRascal Queue Builder. These include TARGA, TIFF, and PSD (Adobe Photoshop format) files.
- Macintosh applications can print directly to the MacRascal Queue Builder using Lasergraphics' chooser level driver.
- Macintosh PICT 1, 2, Scrapbook, and Clipboard can be added directly to Lasergraphics' MacRascal Queue Builder.
- BLL (Binary Lasergraphics Language) files created using Lasergraphics' BLL driver on PC or Macintosh computers can be added directly to the MacRascal Queue Builder.
- PostScript compatible through the Lasergraphics RISC Rascal Plus (hardware option), or Film Magic Pro software for the Macintosh.

## Supported Networks

- AppleTalk
- Banyan Vines
- Windows for Workgroups
- Windows 95/NT
- LAN Manager
- NFS
- Novell Networks
- Other (any other that offers DOS/Windows client access)

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