



LFR™

Lasergraphics Film Recorder

Boardroom Quality Slides

The Lasergraphics Film Recorder (LFR) series of high-resolution film recorders for the IBM PC and compatibles, for the Macintosh and for mainframes offers true boardroom-quality output. Designed for high-volume use and unbeatable output speed, the LFR takes less than two minutes to generate a 4,000-line slide for corporate presentations without image or color degradation.

Simple Interface

The LFR can connect to any computer from micro to mainframe via one of the Lasergraphics rasterizers.

- The Rascol® II, a PC board level rasterizing co-processor, requires only one slot in any IBM PC or compatible.
- A Lasergraphics proprietary software rasterizer and SCSI interface is featured in the version of the LFR for Macintosh computers.
- The Rascol® III, for the mainframes, is a stand-alone rasterizing microcomputer. By establishing a standard queuing facility in the host, the LFR can be shared by many users.

Easy Operation

The LFR requires minimal operator intervention after the initial installation. Film loading and exposure can be done at your desk in normal office lighting. The automatic film advance and film out indicator of the standard 35mm camera back further minimize operator intervention.

The LFR comes standard with automatic exposure calibration, so you never have to adjust exposure settings. The closed loop feedback system automatically adjusts the brightness to guarantee consistent color images for every exposure.

Extensive Software Compatibility

The LFR accepts input from any graphics package that outputs Lasergraphics Language or Hewlett Packard Graphics Language. With the Macintosh computers, it uses PICT 1 and 2 image formats. This combination makes the Lasergraphics LFR immediately compatible with virtually all graphics software on the market today.

LFR Includes

- LFR Digital Film Recorder
- User's Manual
- 35mm Camera Back
- Power Cord
- Rascol II, Rascol III, or SCSI controller.

LFR Technical Specifications

Equipment Compatibility:	Any graphics capable computer. Requires a Lasergraphics controller.		
Film Formats:	35mm is the standard film back. Optional: CB-33, 3 1/4" x 4 1/2"		
Software Selectable Resolution:	4096 x 2732 or 2048 x 1366		
Typical Recording Cycle:	40 seconds at 2000 lines 80 seconds at 4000 lines		
Color Range:	24 bits per pixel. Over 16.7 million colors per image.		
Installation:	Less than 10 minutes		
Warranty:	90 days parts and labor		
Physical Parameters:	With 35mm camera back:		
	9"H x 11"W x 25"L		33 lbs
	22.86 cm x 27.94 cm x 63.5 cm		15 kg
	Without camera back:		
	9"H x 11"W x 23"L		31 lbs
	22.86 cm x 27.94 cm x 58.5 cm		14.1kg
Power Requirements:	100-110VAC, 60Hz		100 W max.
	200-220VAC, 50Hz/60 Hz		100 W max.
Environmental Characteristics			
Temperature:	15°C to 30°C		
Humidity:	15% to 85% relative humidity non-condensing		

High Speed Performance

Typical imaging-time claims of other film recorder manufacturers are often unrealistic. Run your own test. Lasergraphics proves it sets the standard.

	2,000 Line Resolution		4,000 Line Resolution	
	Exposure Time (sec.)	Total Time* (sec.)	Exposure Time (sec.)	Total Time* (sec.)
Bar Chart	40	66	80	106
Word Chart with Raster Fonts	23	31	55	63
Word Chart with Scalable Fonts	26	38	55	67

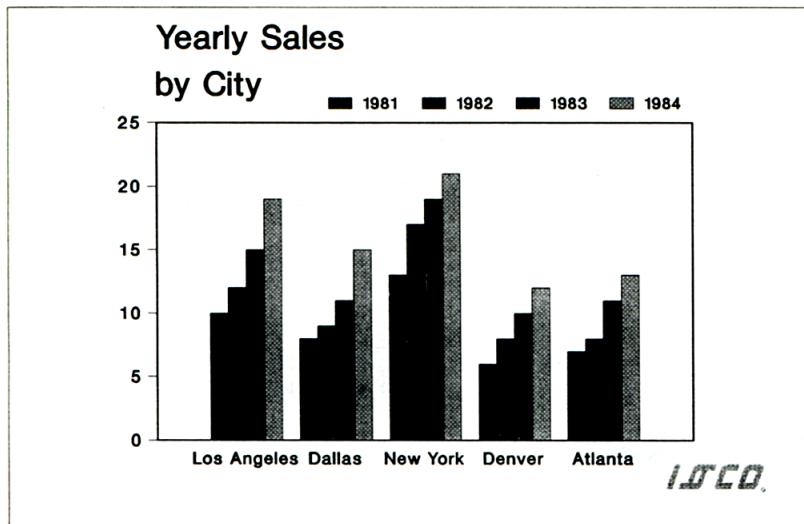
* Total Time includes data transmission, rasterization and exposure time. See reverse side for examples of timed images.

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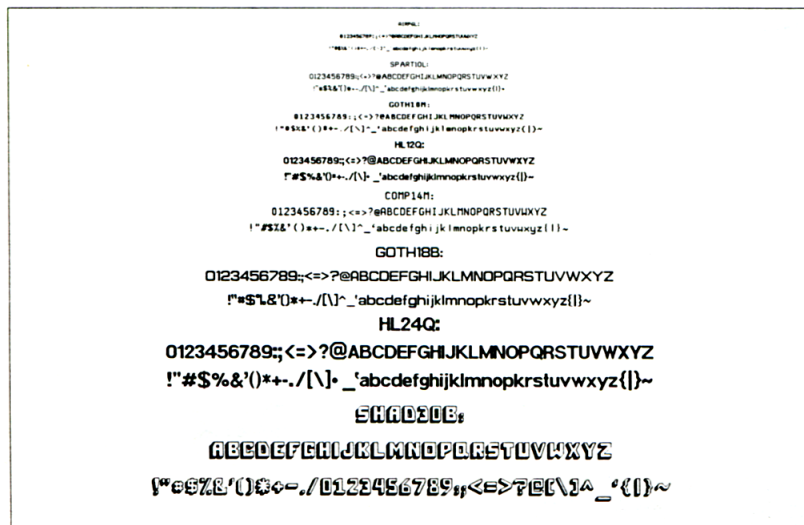
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Lasergraphics LFR™ Timed Image Examples

(All full color 35mm slides)



Bar Chart



Word Chart with
Raster Fonts

COATINGS

CONCRETE/MORTAR COATINGS

- Concrete Cylinder Pipe
- Cement Mortar Coated Pipe
- Prestressed Pipe
- Reinforced Concrete Pipe

DIELECTRIC COATINGS

- Tape Wrap Coatings
- Coal Tar Epoxy
- Fusion Bonded Epoxy
- Polyurethane

Word Chart with
Scalable Fonts

For printing purposes, the background of the images have been changed to white.