

## The Technology



All MIVA raster photoplotters use a unique plotting procedure, utilizing a XENON flash as a light source and a high resolution spatial light modulator to generate the image. This system projects a clean high definition image onto the film. There are various resolutions available between 3000 dpi and 128000 dpi. The photo head exposes the film during its continuous movement across the film surface. Positioning is controlled in real time by high resolution linear encoders. This makes MIVA photoplotters fast and accurate. The ultra reliable light source allows years of operation with red, green or blue sensitive films or glass plates.

Accuracy	<b>Absolute:</b> ± 0.4 mil / 9 µm <b>Repeatability:</b> ± 0.20 mil / 4 µm
Technology	XENON-LCD Raster Image Projection Technology
Media	Silver halide film or glass up to 0.25" thick. Red, green or blue light sensitive. Chrome plates using TFP-650 resist, other types possible (less sensitive resists will require more exposure time) – speed is dependent on resist type.
Maximum Image Size	26" x 36" (660mm x 914mm)
Maximum Film Size	31" x 38" (780mm x 960mm)
Film Subsizes (add'l available)	20"x24" (780x960mm) ■ 22"x26" (559x660mm) ■ 24"x30" (610x762mm)
Environment	Dependent on film sensitivity - red or green safe light darkroom.
Recommended atmosphere	20°C @ 50% relative humidity
Communications	Local area network, CD-ROM, Floppy Disk
Protocol emulations	Gerber, RS 274-X, HP-GL, Fire 9000
Optional Protocols	PostScript, TIFF, PCX, others on request
User Languages	English, German, French, Spanish
User Interface	Simple instructions for programming and operation by keyboard or optional remote control via network.
Option: Network User interface	Netlink queue and plot manager (Win 9x, 2000 and XP compatible) – runs from anywhere on your host network.
Option: Film Feeder	100 sheet film capacity, film cycle time 1-2 minutes depending on film processor.
Physical dimensions (W x D x H)	Std: 58" x 62" x 58" (1485 mm x 1585 mm x 1485 mm) Film Feeder: 38" x 38" x 38" (960 mm x 960 mm x 960 mm)
Weight (Uncrated)	Std: 2,860 lbs (1,300 kg)
Utilities Required	230 VAC, 50/60 Hz, 1000 W or 115 VAC, 50/60 Hz, 1000 W, Air:60L/min @1.8 bar

### Standard Resolutions:

Standard Models	Standard Resolutions (dpi)	Plot Times (16 sq. in) (emulsion exposure)	Minimum Structure Size (plate/emulsion resist only)
2832	8,000	1.2 min	2.0 mil(50.0 µm)
	16,000	2.4 min	1.0 mil(25.0 µm)
	32,000	4.8 min	0.5 mil(12.5 µm)
2864	16,000	2.6 min	1.0 mil(25.0 µm)
	32,000	5.2 min	0.5 mil(12.5 µm)
	64,000	10.4 min	0.25 mil (6.35 µm)
28128	32,000	6.4 min	0.5 mil(12.5 µm)
	64,000	12.8 min	0.25 mil (6.35 µm)
	128,000	25.6 min	0.16 mil (4.0 µm)

### Manufactured by:

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