



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	Absolute: ± 0.5 mil / $12.5 \mu\text{m}$ Repeatability: ± 0.25 mil / $6 \mu\text{m}$
Technology	XENON-LCD Raster Image Projection Technology
Media	Silver halide film or glass up to 0.25" thick. Red, green or blue light sensitive.
Maximum Image Size	44" x 120" (1116 mm x 3050 mm)
Environment	Dependent on film sensitivity – yellow, red or green safe light darkroom for loading.
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.
Physical dimensions (W x D x H)	Std: 53" x 40" x 161" (1350 mm x 965 mm x 4090 mm)
Weight (Uncrated)	Std: 7 tons
Utilities Required	230 VAC, 50/60 Hz, 1.5kW or 115 VAC, 50/60 Hz, 1.5kW Air: 60L/min @1.8 bar

Standard Resolutions:

Standard Models	Resolutions (dpi)	Image Times	Minimum Line Width (mils)
3012LS	3,000	3.0 min	1.4 mil / $35 \mu\text{m}$
	6,000	6.0 min	
	12,000	12.0 min	
3024LS	6,000	9.0 min	0.8 mil / $20 \mu\text{m}$
	12,000	18.0 min	
	24,000	37.0 min	

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