

# Direct Imagers

## 2000L Class

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## Flatbed Imaging Systems

MADE IN GERMANY

Product Specifications  
2021



A message from Robin Pagan  
**Chief Executive Officer, MIVA Technologies GmbH**

MIVA Technologies GmbH is a German company dedicated to development, production and customer servicing of flatbed imaging systems. It is our aim through technical innovation to optimise exposure speed, accuracy, resolution and reliability affordably, to establish a lasting and constructive relationship with our customers by offering fast, cost-effective production and service solutions, and by upgrading software and hardware if required. A wide range of plotter sizes (7.5 cm to 6m) and resolutions (3000dpi to 128000 dpi) coupled with closed-loop high positional accuracy, low investment and service costs have been realised to-date. MIVA systems have been servicing worldwide markets for more than thirty years.

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## DIRECT IMAGERS - 2050L CLASS

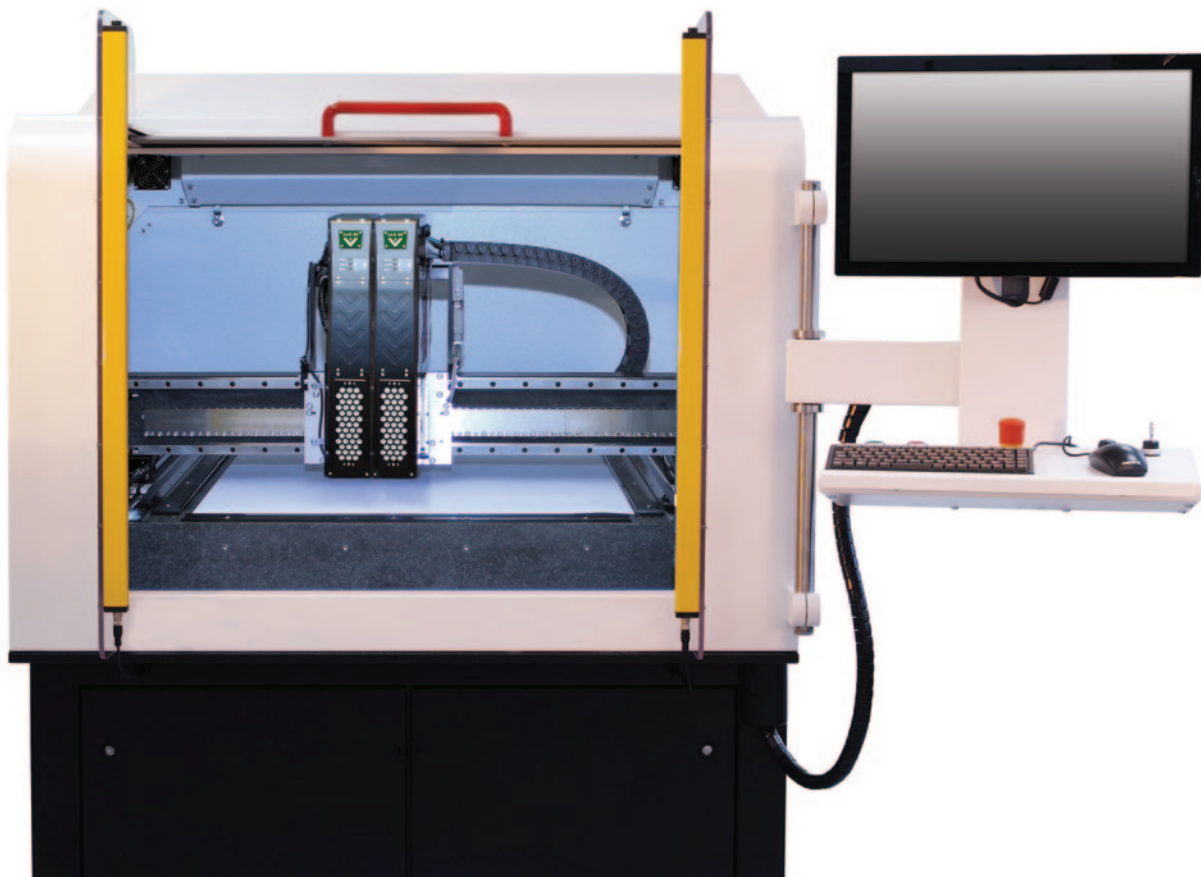
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## DIRECT IMAGERS - 2012L CLASS

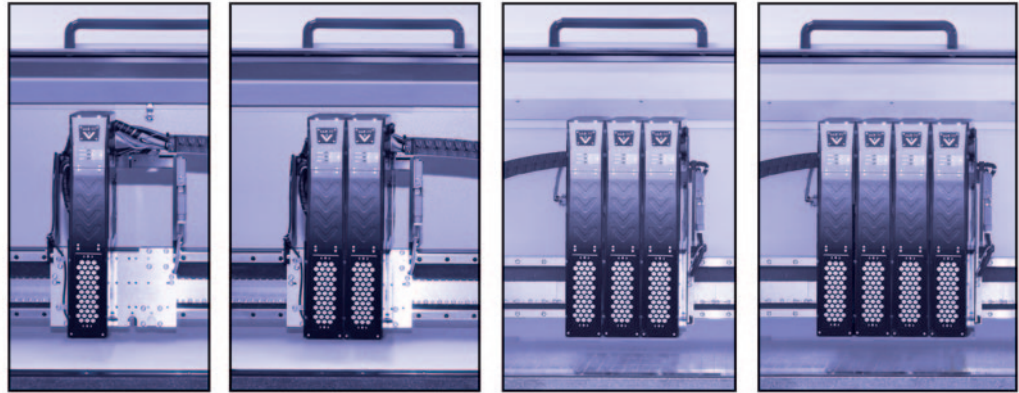
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## MIVA 2050L DI class overview



Machine type	MIVA 2050L DI	MIVA 2050L DI duo	MIVA 2050L DI trio	MIVA 2050L DI quattro
No.of Photoheads	1	2	3	4
Max image size	22" x 26" 560 mm x 660 mm	24" x 26" 610 mm x 660 mm	24" x 26" 610 mm x 660 mm	24" x 26" 610 mm x 660 mm
Media sizes from	2" x 2" 50 mm x 50 mm	2" x 2" 50 mm x 50 mm	2" x 2" 50 mm x 50 mm	2" x 2" 50 mm x 50 mm
Time for 18" x 24" (457mm x 620mm) LDI resist	40s	30s	20s	15s
Minimum structures L/S	50µm	50µm	50µm	50µm

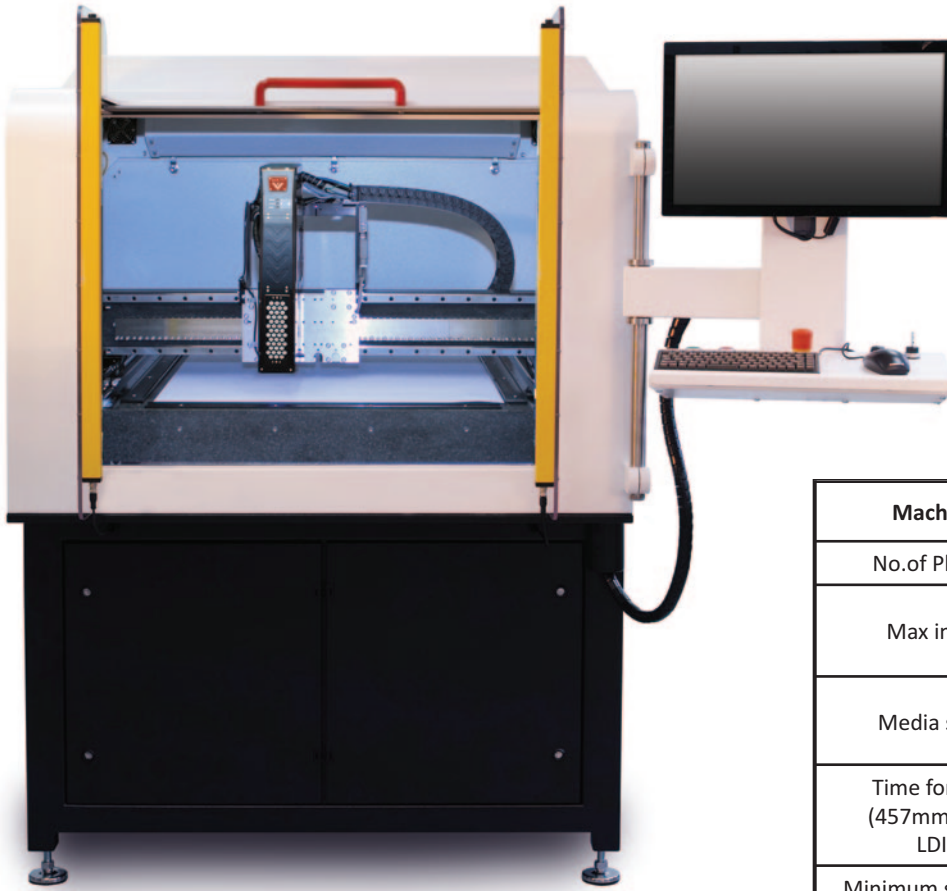
Accuracy:	absolute: ± 0.4 mil / 9 µm repeatability: ± 0.2 mil / 4 µm
Physical size:	H: 69" / 175 cm, W: 48" / 122 cm, D: 60" / 153 cm; Weight: 865 kg
Power requirement:	220-240 VAC, 50/60 Hz, 3.5 kW (550 W when idle!)
Compressed air:	Integrated gas filtering system for 60 L/min @ 6 bar or air compressor optional
Technology:	DMD Raster Image Projection Technology / Solid state UV light sources
Environment:	Dependent on resist/emulsion sensitivity – yellow or red safe light conditions recommended for loading panels or other media
Recommended temperature/humidity:	21°C 50% RH
Media:	Resist coated panels, UV films, solder mask, red sensitive or orthochromatic phototooling films or masks up to 12mm thick
User dialogue:	Simple instructions for programming and operation by keyboard or remote control
Communications:	Local area network, Removable media.
Protocol emulations:	Gerber RS 274-X, PostScript, TIFF, others on request
User interface:	xDI Multihead control program (Windows compatible)
Panel registration:	Optical (camera) registration system +-15µm

# Direct Imager

## 2050L DI class overview

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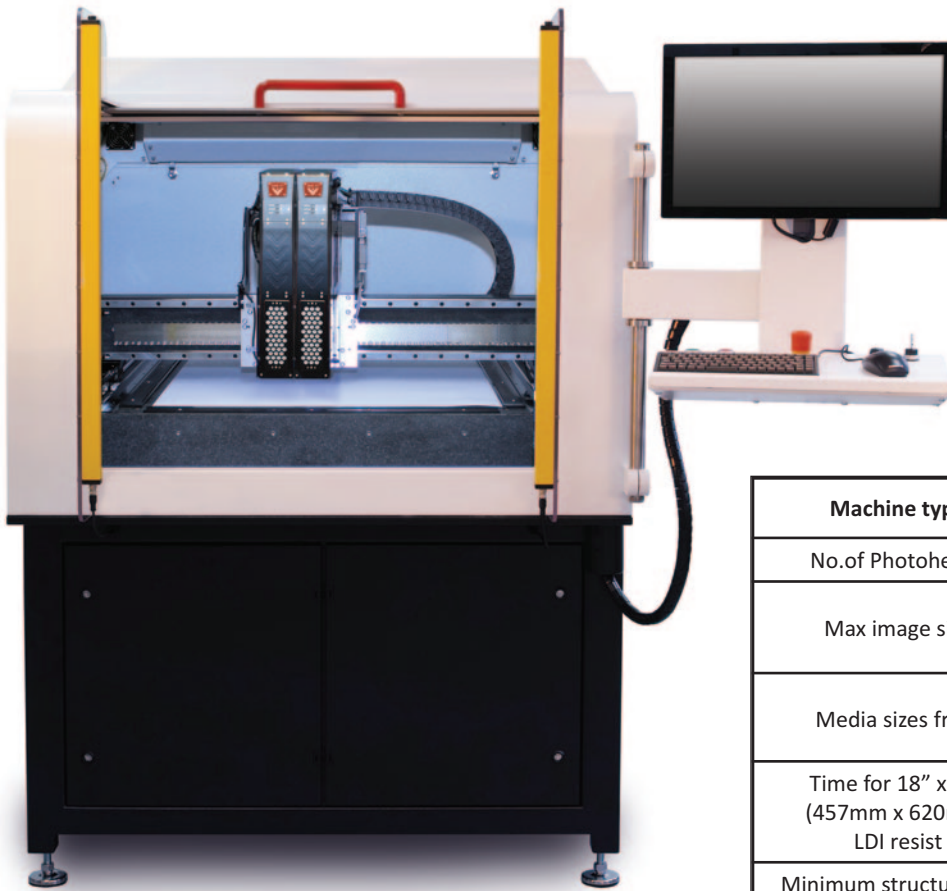


Machine type	MIVA 2050L DI
No. of Photoheads	1
Max image size	22" x 26" 560 mm x 660 mm
Media sizes from	2" x 2" 50 mm x 50 mm
Time for 18" x 24" (457mm x 620mm) LDI resist	40s
Minimum structures L/S	50µm

Accuracy:	absolute: $\pm 0.4$ mil / $9 \mu\text{m}$ repeatability: $\pm 0.2$ mil / $4 \mu\text{m}$
Physical size:	H: 69" / 175 cm, W: 48" / 122 cm, D: 60" / 153 cm; Weight: 865 kg
Power requirement:	220-240 VAC, 50/60 Hz, 3.5 kW (550 W when idle!)
Compressed air:	Integrated gas filtering system for 60 L/min @ 6 bar or air compressor optional
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Protocol emulations:	Gerber RS 274-X, PostScript, TIFF, others on request
User interface:	xDI Multihead control program (Windows compatible)
Panel registration:	Optical (camera) registration system $\pm 15 \mu\text{m}$

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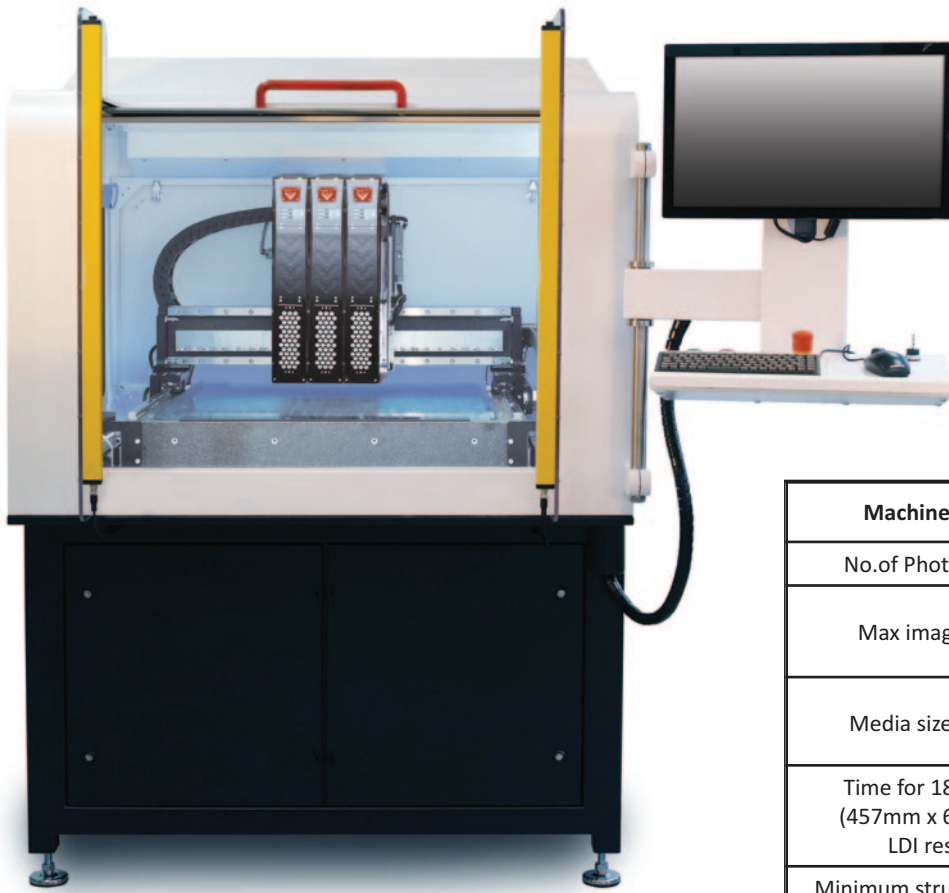


Machine type	MIVA 2050L DI duo
No. of Photoheads	2
Max image size	24" x 26" 610 mm x 660 mm
Media sizes from	2" x 2" 50 mm x 50 mm
Time for 18" x 24" (457mm x 620mm) LDI resist	30s
Minimum structures L/S	50µm

Accuracy:	absolute: $\pm 0.4$ mil / $9 \mu\text{m}$ repeatability: $\pm 0.2$ mil / $4 \mu\text{m}$
Physical size:	H: 69" / 175 cm, W: 48" / 122 cm, D: 60" / 153 cm; Weight: 865 kg
Power requirement:	220-240 VAC, 50/60 Hz, 3.5 kW (550 W when idle!)
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User interface:	xDI Multihead control program (Windows compatible)
Panel registration:	Optical (camera) registration system $\pm 15 \mu\text{m}$

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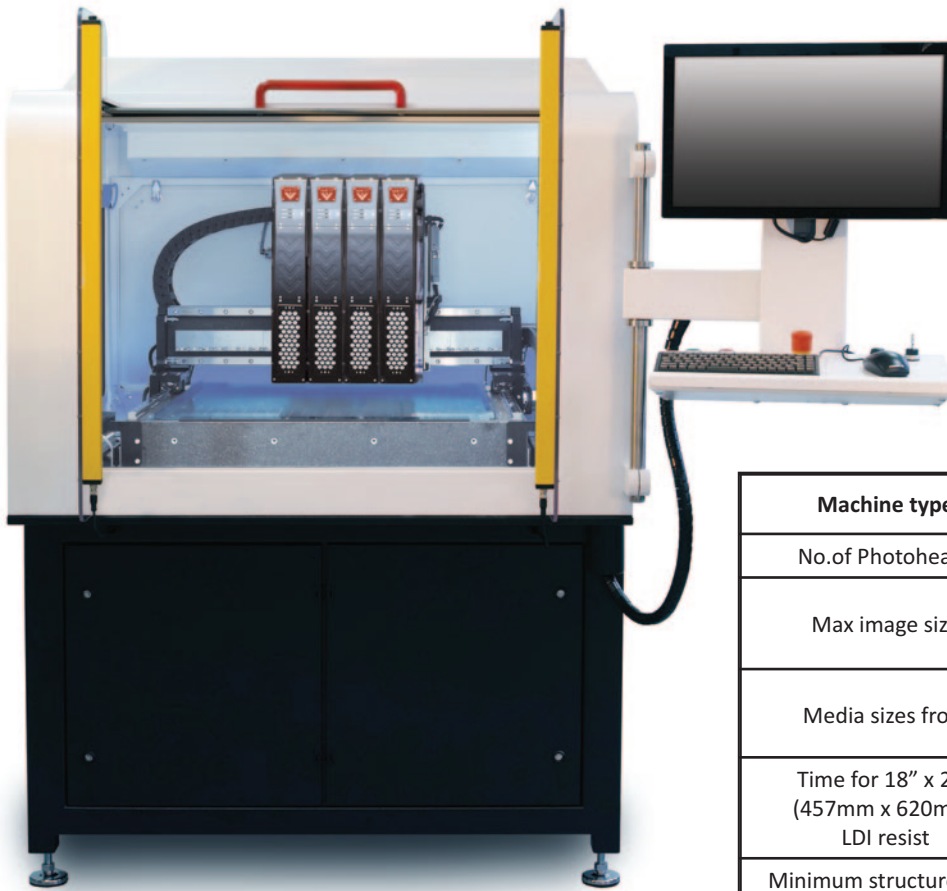
Machine type	MIVA 2050L DI trio
No. of Photoheads	3
Max image size	24" x 26" 610 mm x 660 mm
Media sizes from	2" x 2" 50 mm x 50 mm
Time for 18" x 24" (457mm x 620mm) LDI resist	20s
Minimum structures L/S	50µm

Accuracy:	absolute: ± 0.4 mil / 9 µm repeatability: ± 0.2 mil / 4 µm
Physical size:	H: 69" / 175 cm, W: 48" / 122 cm, D: 60" / 153 cm; Weight: 865 kg
Power requirement:	220-240 VAC, 50/60 Hz, 3.5 kW (550 W when idle!)
Compressed air:	Integrated gas filtering system for 60 L/min @ 6 bar or air compressor optional
Technology:	DMD Raster Image Projection Technology / Solid state UV light sources
Environment:	Dependent on resist/emulsion sensitivity – yellow or red safe light conditions recommended for loading panels or other media
Recommended temperature/humidity:	21°C 50% RH
Media:	Resist coated panels, UV films, solder mask, red sensitive or orthochromatic phototooling films or masks up to 12mm thick
User dialogue:	Simple instructions for programming and operation by keyboard or remote control
Communications:	Local area network, Removable media.
Protocol emulations:	Gerber RS 274-X, PostScript, TIFF, others on request
User interface:	xDI Multihead control program (Windows compatible)
Panel registration:	Optical (camera) registration system ±15µm

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## MIVA 2050L DI quattro



Machine type	MIVA 2050L DI <i>quattro</i>
No.of Photoheads	4
Max image size	24" x 26" 610 mm x 660 mm
Media sizes from	2" x 2" 50 mm x 50 mm
Time for 18" x 24" (457mm x 620mm) LDI resist	15s
Minimum structures L/S	50µm

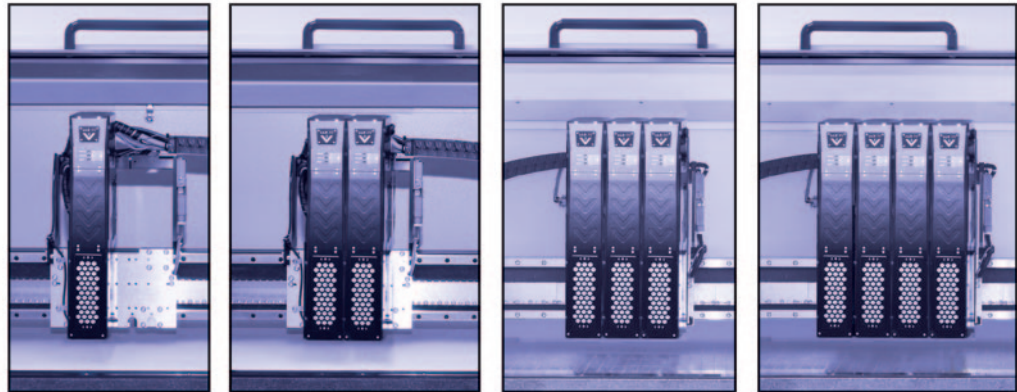
Accuracy:	absolute: $\pm 0.4$ mil / $9 \mu\text{m}$ repeatability: $\pm 0.2$ mil / $4 \mu\text{m}$
Physical size:	H: 69" / 175 cm, W: 48" / 122 cm, D: 60" / 153 cm; Weight: 865 kg
Power requirement:	220-240 VAC, 50/60 Hz, 3.5 kW (550 W when idle!)
Compressed air:	Integrated gas filtering system for 60 L/min @ 6 bar or air compressor optional
Technology:	DMD Raster Image Projection Technology / Solid state UV light sources
Environment:	Dependent on resist/emulsion sensitivity – yellow or red safe light conditions recommended for loading panels or other media
Recommended temperature/humidity:	21°C 50% RH
Media:	Resist coated panels, UV films, solder mask, red sensitive or orthochromatic phototooling films or masks up to 12mm thick
User dialogue:	Simple instructions for programming and operation by keyboard or remote control
Communications:	Local area network, Removable media.
Protocol emulations:	Gerber RS 274-X, PostScript, TIFF, others on request
User interface:	xDI Multihead control program (Windows compatible)
Panel registration:	Optical (camera) registration system $+15\mu\text{m}$

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## MIVA 2025L DI class overview



Machine type	MIVA 2025L DI	MIVA 2025L DI duo	MIVA 2025L DI trio	MIVA 2025L DI quattro
No. of Photoheads	1	2	3	4
Max image size	22" x 26" 560 mm x 660 mm	24" x 26" 610 mm x 660 mm	24" x 26" 610 mm x 660 mm	24" x 26" 610 mm x 660 mm
Media sizes from	2" x 2" 50 mm x 50 mm	2" x 2" 50 mm x 50 mm	2" x 2" 50 mm x 50 mm	2" x 2" 50 mm x 50 mm
Time for 18" x 24" (457mm x 620mm) LDI resist	60s	30s	20s	15s
Minimum structures L/S	25µm	25µm	25µm	25µm

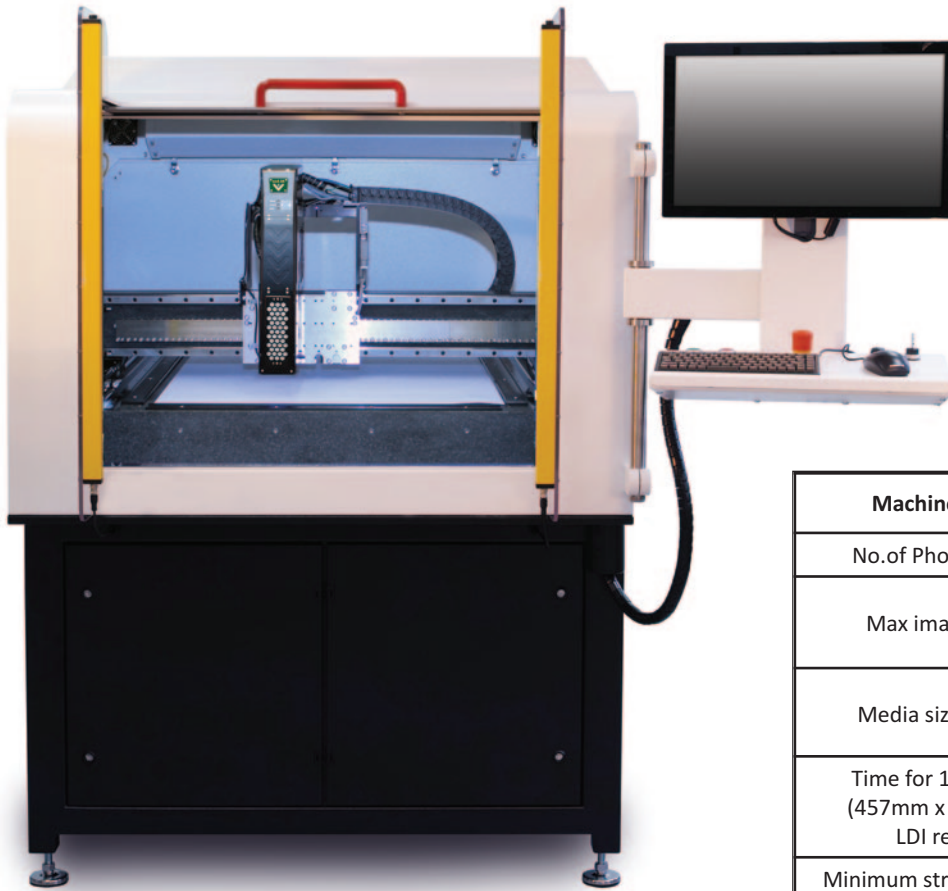
Accuracy:	absolute: ± 0.4 mil / 9 µm repeatability: ± 0.2 mil / 4 µm
Physical size:	H: 69" / 175 cm, W: 48" / 122 cm, D: 60" / 153 cm; Weight: 865 kg
Power requirement:	220-240 VAC, 50/60 Hz, 3.5 kW (550 W when idle!)
Compressed air:	Integrated gas filtering system for 60 L/min @ 6 bar or air compressor optional
Technology:	DMD Raster Image Projection Technology / Solid state UV light sources
Environment:	Dependent on resist/emulsion sensitivity – yellow or red safe light conditions recommended for loading panels or other media
Recommended temperature/humidity:	21°C 50% RH
Media:	Resist coated panels, UV films, solder mask, red sensitive or orthochromatic phototooling films or masks up to 12mm thick
User dialogue:	Simple instructions for programming and operation by keyboard or remote control
Communications:	Local area network, Removable media.
Protocol emulations:	Gerber RS 274-X, PostScript, TIFF, others on request
User interface:	xDI Multihead control program (Windows compatible)
Panel registration:	Optical (camera) registration system ±15µm

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Machine type	MIVA 2025L DI
No. of Photoheads	1
Max image size	22" x 26" 560 mm x 660 mm
Media sizes from	2" x 2" 50 mm x 50 mm
Time for 18" x 24" (457mm x 620mm) LDI resist	60s
Minimum structures L/S	25µm

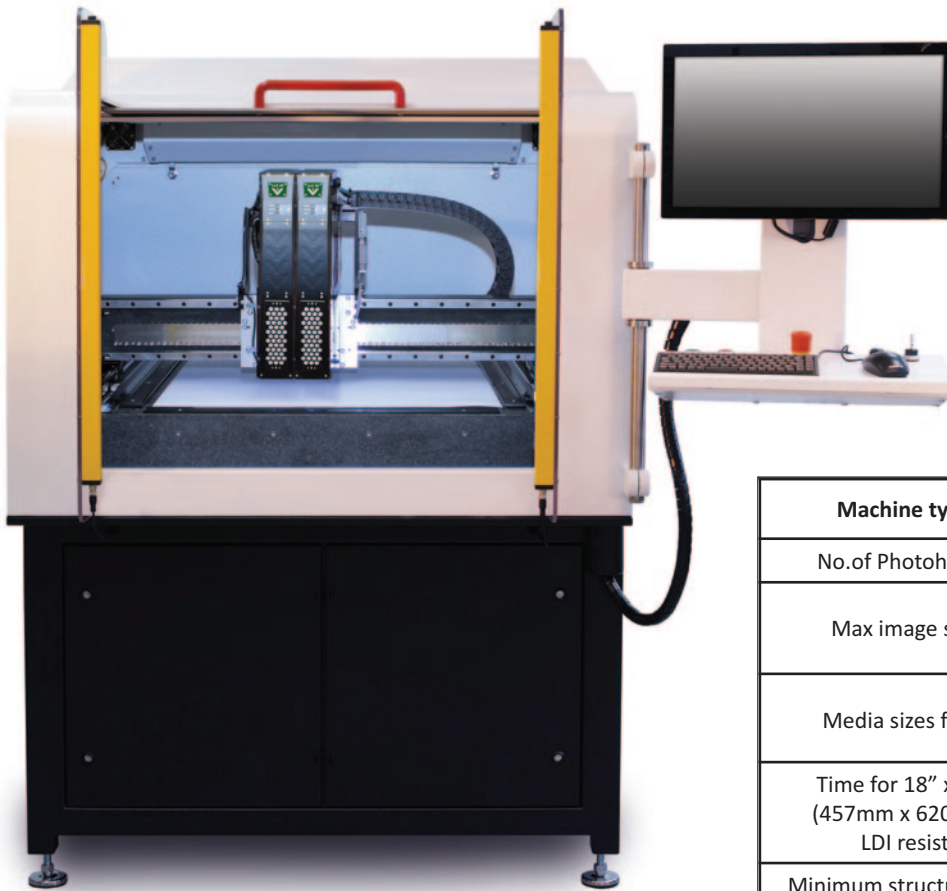
Accuracy:	absolute: $\pm 0.4$ mil / $9 \mu\text{m}$ repeatability: $\pm 0.2$ mil / $4 \mu\text{m}$
Physical size:	H: 69" / 175 cm, W: 48" / 122 cm, D: 60" / 153 cm; Weight: 865 kg
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User dialogue:	Simple instructions for programming and operation by keyboard or remote control
Communications:	Local area network, Removable media.
Protocol emulations:	Gerber RS 274-X, PostScript, TIFF, others on request
User interface:	xDI Multihead control program (Windows compatible)
Panel registration:	Optical (camera) registration system $\pm 15\mu\text{m}$

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Machine type	MIVA 2025L DI duo
No. of Photoheads	2
Max image size	24" x 26" 610 mm x 660 mm
Media sizes from	2" x 2" 50 mm x 50 mm
Time for 18" x 24" (457mm x 620mm) LDI resist	30s
Minimum structures L/S	25µm

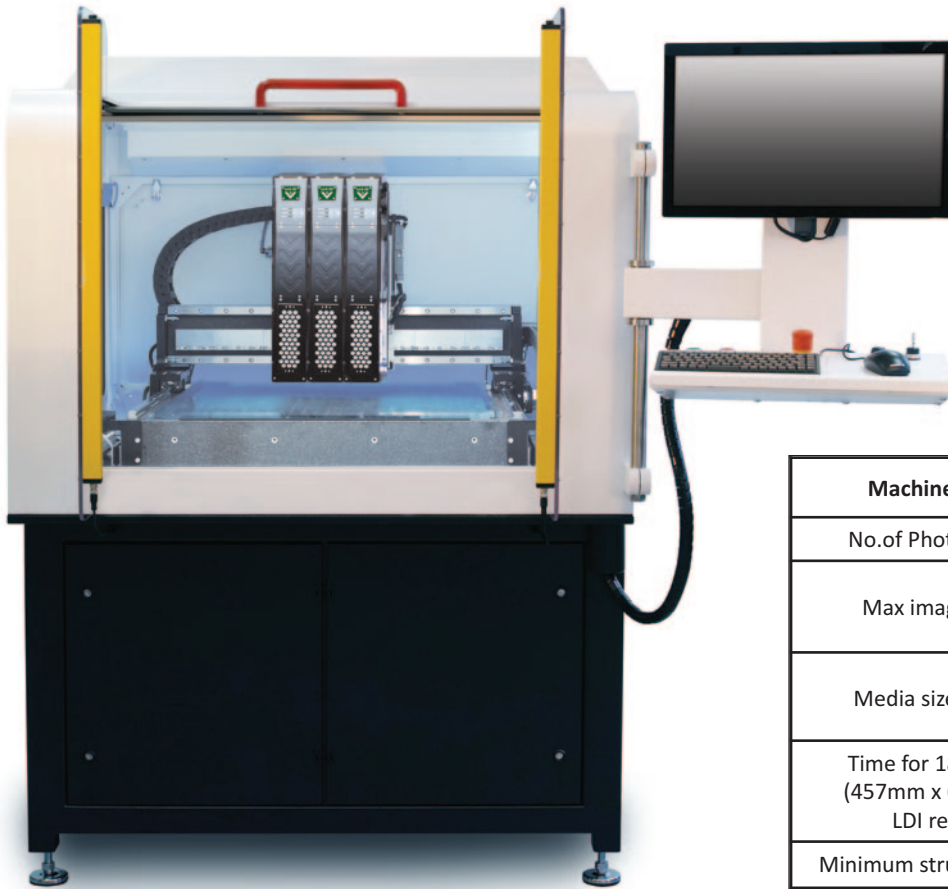
Accuracy:	absolute: $\pm 0.4$ mil / $9 \mu\text{m}$ repeatability: $\pm 0.2$ mil / $4 \mu\text{m}$
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Recommended temperature/humidity:	21°C 50% RH
Media:	Resist coated panels, UV films, solder mask, red sensitive or orthochromatic phototooling films or masks up to 12mm thick
User dialogue:	Simple instructions for programming and operation by keyboard or remote control
Communications:	Local area network, Removable media.
Protocol emulations:	Gerber RS 274-X, PostScript, TIFF, others on request
User interface:	xDI Multihead control program (Windows compatible)
Panel registration:	Optical (camera) registration system $\pm 15 \mu\text{m}$

# Direct Imager

## 2025L Class

### MIVA 2025L DI duo

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Machine type	MIVA 2025L DI trio
No. of Photoheads	3
Max image size	24" x 26" 610 mm x 660 mm
Media sizes from	2" x 2" 50 mm x 50 mm
Time for 18" x 24" (457mm x 620mm) LDI resist	20s
Minimum structures L/S	25µm

Accuracy:	absolute: $\pm 0.4$ mil / $9 \mu\text{m}$ repeatability: $\pm 0.2$ mil / $4 \mu\text{m}$
Physical size:	H: 69" / 175 cm, W: 48" / 122 cm, D: 60" / 153 cm; Weight: 865 kg
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Communications:	Local area network, Removable media.
Protocol emulations:	Gerber RS 274-X, PostScript, TIFF, others on request
User interface:	xDI Multihead control program (Windows compatible)
Panel registration:	Optical (camera) registration system $\pm 15\mu\text{m}$

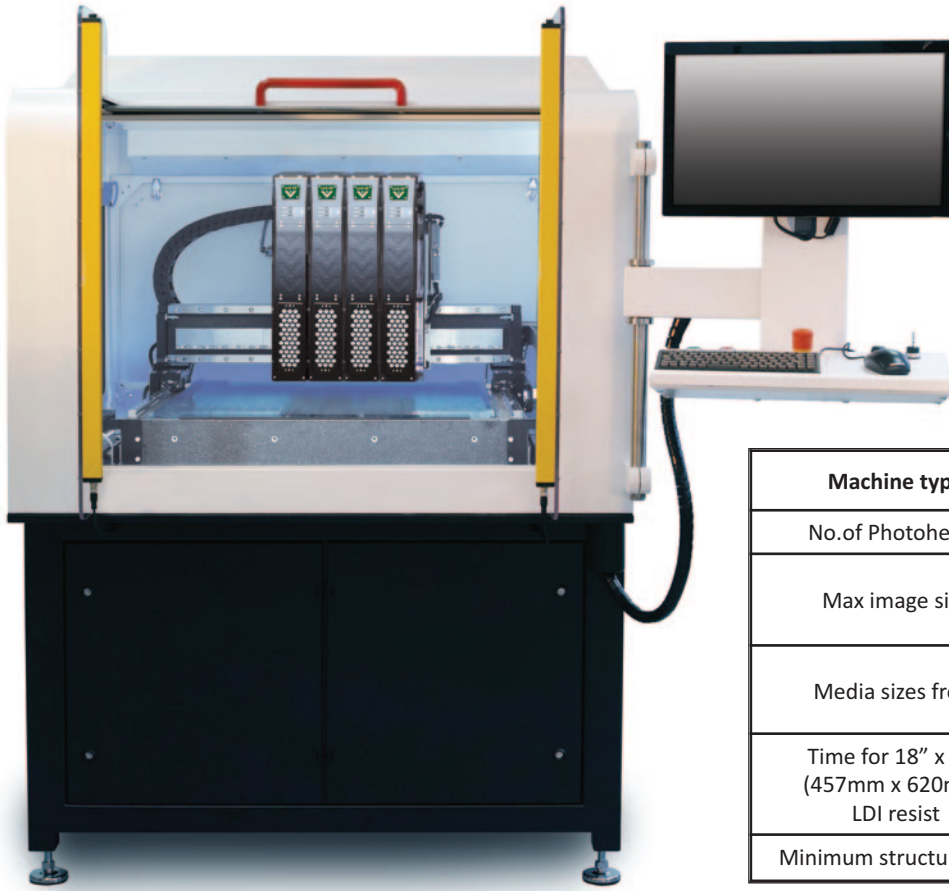
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## 2025L Class

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## MIVA 2025L DI quattro



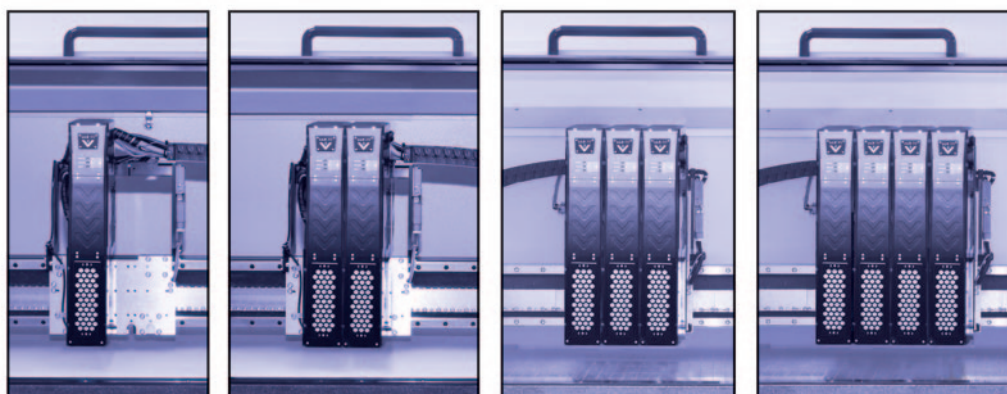
Machine type	MIVA 2025L DI <i>quattro</i>
No. of Photoheads	4
Max image size	24" x 26" 610 mm x 660 mm
Media sizes from	2" x 2" 50 mm x 50 mm
Time for 18" x 24" (457mm x 620mm) LDI resist	15s
Minimum structures L/S	25µm

Accuracy:	absolute: ± 0.4 mil / 9 µm repeatability: ± 0.2 mil / 4 µm
Physical size:	H: 69" / 175 cm, W: 48" / 122 cm, D: 60" / 153 cm; Weight: 865 kg
Power requirement:	220-240 VAC, 50/60 Hz, 3.5 kW (550 W when idle!)
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Panel registration:	Optical (camera) registration system +15µm

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## MIVA 2012L DI class overview



Machine type	MIVA 2012L DI	MIVA 2012L DI <i>duo</i>	MIVA 2012L DI <i>trio</i>	MIVA 2012L DI <i>quattro</i>
No. of Photoheads	1	2	3	4
Max image size	22" x 26" 560 mm x 660 mm	24" x 26" 610 mm x 660 mm	24" x 26" 610 mm x 660 mm	24" x 26" 610 mm x 660 mm
Media sizes from	2" x 2" 50 mm x 50 mm	2" x 2" 50 mm x 50 mm	2" x 2" 50 mm x 50 mm	2" x 2" 50 mm x 50 mm
Time for 18" x 24" (457mm x 620mm) LDI resist	120s	60s	40s	30s
Minimum structures L/S	12µm	12µm	12µm	12µm

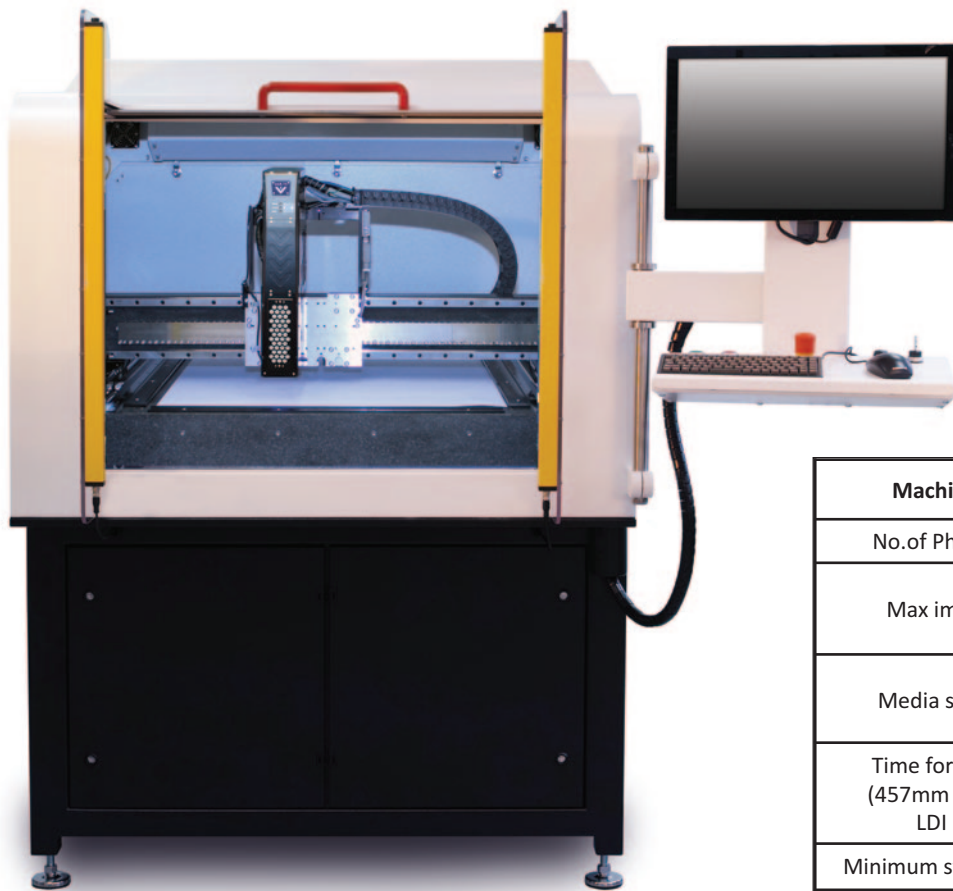
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Power requirement:	220-240 VAC, 50/60 Hz, 3.5 kW (550 W when idle!)
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Machine type	MIVA 2012L DI
No. of Photoheads	1
Max image size	22" x 26" 560 mm x 660 mm
Media sizes from	2" x 2" 50 mm x 50 mm
Time for 18" x 24" (457mm x 620mm) LDI resist	120s
Minimum structures L/S	12µm

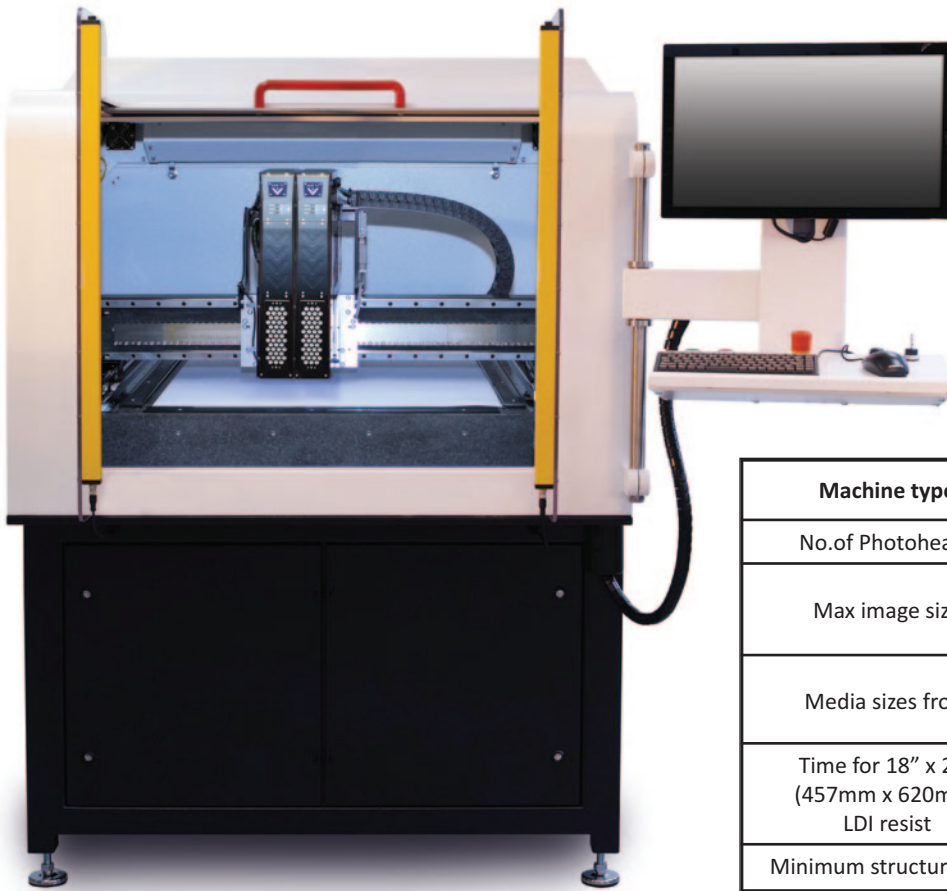
Accuracy:	absolute: ± 0.4 mil / 9 µm repeatability: ± 0.2 mil / 4 µm
Physical size:	H: 69" / 175 cm, W: 48" / 122 cm, D: 60" / 153 cm; Weight: 865 kg
Power requirement:	220-240 VAC, 50/60 Hz, 3.5 kW (550 W when idle!)
Compressed air:	Integrated gas filtering system for 60 L/min @ 6 bar or air compressor optional
Technology:	DMD Raster Image Projection Technology / Solid state UV light sources
Environment:	Dependent on resist/emulsion sensitivity – yellow or red safe light conditions recommended for loading panels or other media
Recommended temperature/humidity:	21°C 50% RH
Media:	Resist coated panels, UV films, solder mask, red sensitive or orthochromatic phototooling films or masks up to 12mm thick
User dialogue:	Simple instructions for programming and operation by keyboard or remote control
Communications:	Local area network, Removable media.
Protocol emulations:	Gerber RS 274-X, PostScript, TIFF, others on request
User interface:	xDI Multihed control program (Windows compatible)
Panel registration:	Optical (camera) registration system ±15µm

# Direct Imager

## 2012L Class

### MIVA 2012L DI

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Telefax: +49 (0) 7031 756030  
E-mail: info@mivatec.com  
Internet: www.mivatec.com



Machine type	MIVA 2012L DI duo
No. of Photoheads	2
Max image size	24" x 26" 610 mm x 660 mm
Media sizes from	2" x 2" 50 mm x 50 mm
Time for 18" x 24" (457mm x 620mm) LDI resist	60s
Minimum structures L/S	12µm

Accuracy:	absolute: ± 0.4 mil / 9 µm repeatability: ± 0.2 mil / 4 µm
Physical size:	H: 69" / 175 cm, W: 48" / 122 cm, D: 60" / 153 cm; Weight: 865 kg
Power requirement:	220-240 VAC, 50/60 Hz, 3.5 kW (550 W when idle!)
Compressed air:	Integrated gas filtering system for 60 L/min @ 6 bar or air compressor optional
Technology:	DMD Raster Image Projection Technology / Solid state UV light sources
Environment:	Dependent on resist/emulsion sensitivity – yellow or red safe light conditions recommended for loading panels or other media
Recommended temperature/humidity:	21°C 50% RH
Media:	Resist coated panels, UV films, solder mask, red sensitive or orthochromatic phototooling films or masks up to 12mm thick
User dialogue:	Simple instructions for programming and operation by keyboard or remote control
Communications:	Local area network, Removable media.
Protocol emulations:	Gerber RS 274-X, PostScript, TIFF, others on request
User interface:	xDI Multihead control program (Windows compatible)
Panel registration:	Optical (camera) registration system +15µm

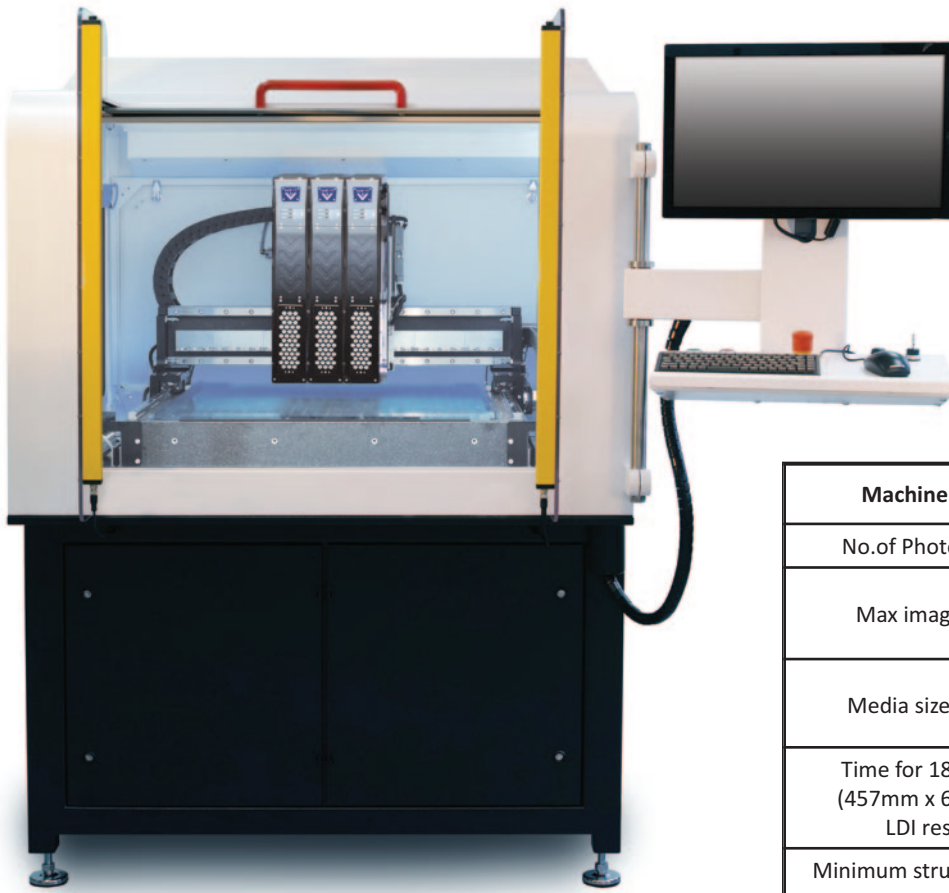
## Direct Imager

### 2012L Class

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Machine type	MIVA 2012L DI trio
No.of Photoheads	3
Max image size	24" x 26" 610 mm x 660 mm
Media sizes from	2" x 2" 50 mm x 50 mm
Time for 18" x 24" (457mm x 620mm) LDI resist	40s
Minimum structures L/S	12µm

Accuracy:	absolute: ± 0.4 mil / 9 µm repeatability: ± 0.2 mil / 4 µm
Physical size:	H: 69" / 175 cm, W: 48" / 122 cm, D: 60" / 153 cm; Weight: 865 kg
Power requirement:	220-240 VAC, 50/60 Hz, 3.5 kW (550 W when idle!)
Compressed air:	Integrated gas filtering system for 60 L/min @ 6 bar or air compressor optional
Technology:	DMD Raster Image Projection Technology / Solid state UV light sources
Environment:	Dependent on resist/emulsion sensitivity – yellow or red safe light conditions recommended for loading panels or other media
Recommended temperature/humidity:	21°C 50% RH
Media:	Resist coated panels, UV films, solder mask, red sensitive or orthochromatic phototooling films or masks up to 12mm thick
User dialogue:	Simple instructions for programming and operation by keyboard or remote control
Communications:	Local area network, Removable media.
Protocol emulations:	Gerber RS 274-X, PostScript, TIFF, others on request
User interface:	xDI Multihead control program (Windows compatible)
Panel registration:	Optical (camera) registration system +-15µm

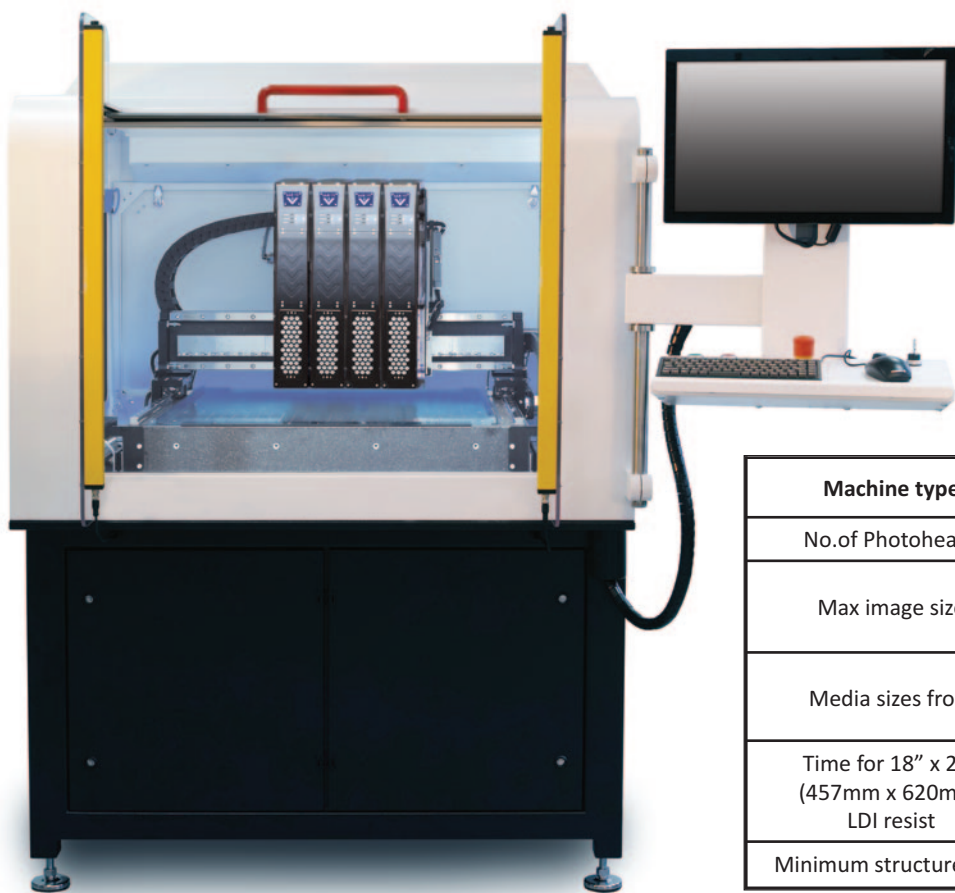
## Direct Imager

### 2012L Class

### MIVA 2012L DI trio

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## MIVA 2012L DI quattro



Machine type	MIVA 2012L DI <i>quattro</i>
No.of Photoheads	4
Max image size	24" x 26" 610 mm x 660 mm
Media sizes from	2" x 2" 50 mm x 50 mm
Time for 18" x 24" (457mm x 620mm) LDI resist	30s
Minimum structures L/S	12µm

Accuracy:	absolute: ± 0.4 mil / 9 µm repeatability: ± 0.2 mil / 4 µm
Physical size:	H: 69" / 175 cm, W: 48" / 122 cm, D: 60" / 153 cm; Weight: 865 kg
Power requirement:	220-240 VAC, 50/60 Hz, 3.5 kW (550 W when idle!)
Compressed air:	Integrated gas filtering system for 60 L/min @ 6 bar or air compressor optional
Technology:	DMD Raster Image Projection Technology / Solid state UV light sources
Environment:	Dependent on resist/emulsion sensitivity – yellow or red safe light conditions recommended for loading panels or other media
Recommended temperature/humidity:	21°C 50% RH
Media:	Resist coated panels, UV films, solder mask, red sensitive or orthochromatic phototooling films or masks up to 12mm thick
User dialogue:	Simple instructions for programming and operation by keyboard or remote control
Communications:	Local area network, Removable media.
Protocol emulations:	Gerber RS 274-X, PostScript, TIFF, others on request
User interface:	xDI Multihead control program (Windows compatible)
Panel registration:	Optical (camera) registration system ±15µm

Direct Imager  
2012L Class  
MIVA 2012L DI quattro

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# Flatbed Imaging Systems

MADE IN GERMANY

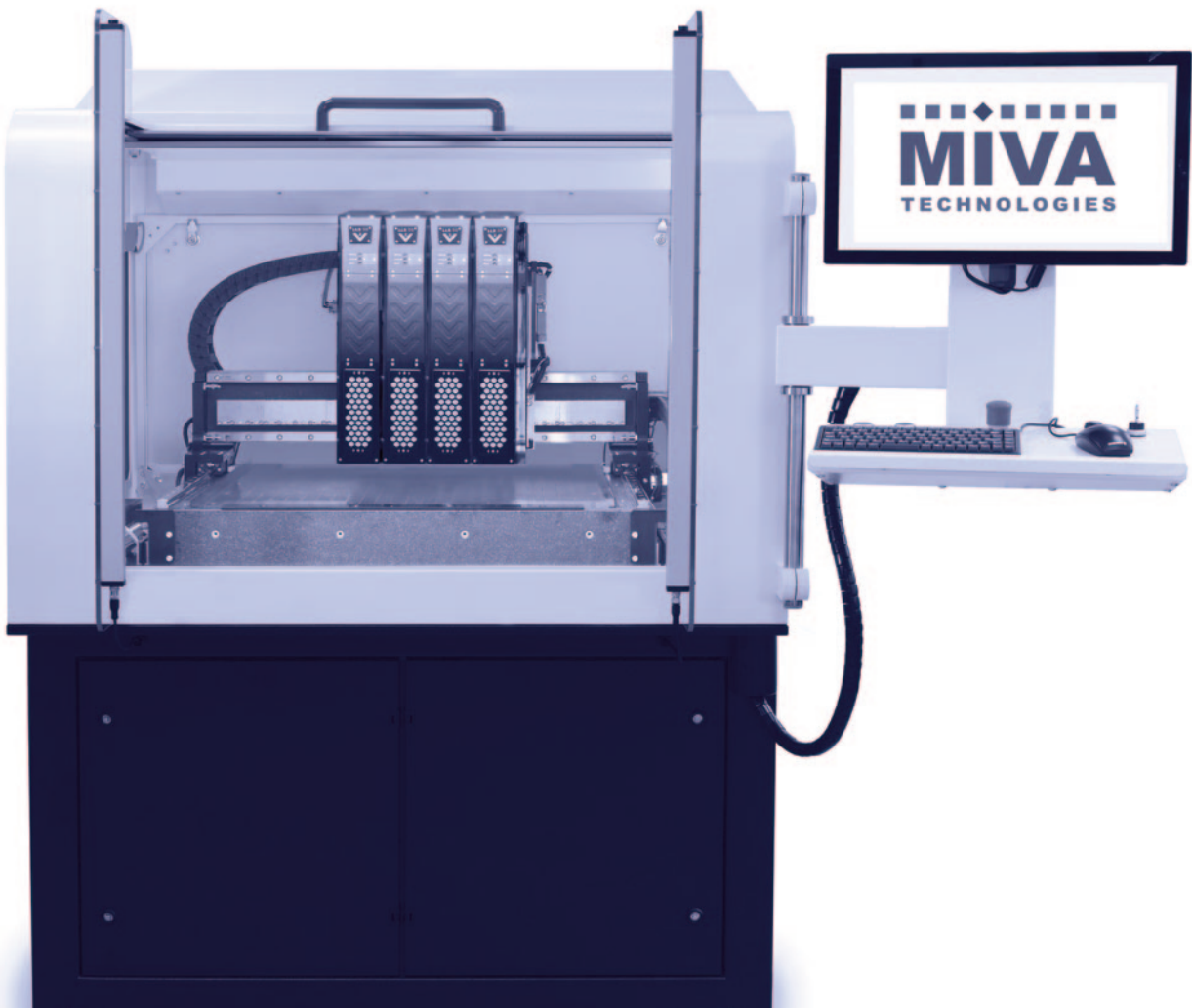
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## Flatbed Imaging Systems MADE IN GERMANY

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