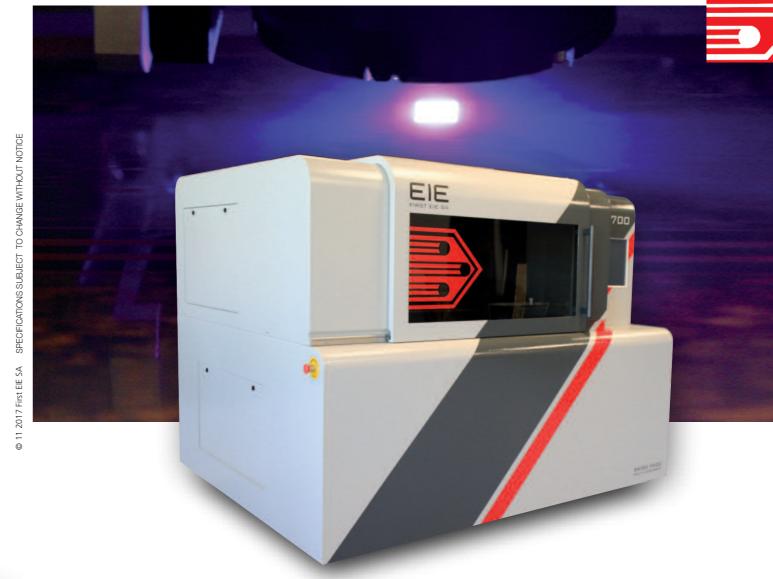
The Latest Imager Technology •

EDI series
Quality & Reliability

First EIE SA General specifications EDI line

			EDI500	EDI70
	Max. image size	620 x 690 mm (24.4" x 27.2")	•	
		788 x 920 mm (31" x 36.2")		•
	Compatible panel sizes	Any size up to : 620 x 720 mm (24.4" x 27.6")	•	
		Any size up to : 800 x 1000 mm (31.5" x 39.4")		•
Exposure unit	Panel thickness	0.1 to 10 mm (0.004" to 0.4")	•	•
	Substrate type	Most common Etch Resists	•	•
	Panel holding	First EIE vacuum table	•	•
	J	First EIE Panel clamping system	Option	
	Minimum Line Width	30 μm (1.2 mil) with HDS Light Engine	•	•
		75 µm (3 mil) with HVS Light Engine	•	•
Optical Engine	Technology	DMD with advanced UV Lens	•	•
	Light source type	Very high pressure arc lamp	•	•
	Light spectrum	365 to 450 nm (UV-A)	•	•
	Exposed energy	4 to 1000 mJ/cm ²	•	•
Photoimagable Substrate	, 3,	Compatible with all used etch resists	•	•
	Туре	Compatible with all used solder masks	•	•
	туре	UV-sensitive silver halide films	•	•
Built-in Raster Image Processor	Data input formats	RS274D, RS274X, DPF and EIE RPL	•	•
	Optional input formats	ODB++, PostScript, TIFF-PACKBITS, PDF, AI (ADOBE ILLUSTRATOR)	•	•
	Via third party software	DXF, DWG, other upon request	•	•
	Network compatibility	Network File System TCP-IP	•	•
Jser Interface	, ,	with touch panel including First EIE MPS and Remote Queue Manager Software	•	•
Panel Pack	CAM Software to EDI500 data automatisation for minimal operator interaction		Option	Option
	For equipment easy calibration and adjustment		•	•
Panel Alignment and Registration	Automatic registration and side alignment with on-board CCD camera		•	•
	Or manually with locating pins		•	
	Unique rotation table		•	
Serialization Dynamic Data	Serial numbers, time-code, barcodes 1D or 2D (QR-Code, DataMatrix and others) by D-code mapping		Option	Option
Exposure Time (20" x 16")	Less than 90 seconds	Varies on resist sensitivity and exposure energy	•	•
inposare rime (20 × 10)		varies of resist sensitivity and exposure energy	•	
Overall Accuracy	± 15 μm ± 5 μm			•
Repeatability	± 5 μm		•	
	± 2 μm			•
Operating Conditions	Temperature relative humidity	20 ± 2°C 50% ± 10% (non-condensing)	•	•
	Stainless steel Enclosure for Clea	an Room	Option	Option
	Power requirements	Single phase : 230 VAC ± 10%, 2000 Watts	•	•
	Compressed air Dry and oil free	Minimum : 6 bars, 56L/min (90 psi, 2 cfm)	•	•
Size and Weight	Width x Depth x Height	1560 x 1890 x 1470 mm	•	
	,	2300 x 2000 x 1700 mm		•
	Weight	850 kg	•	
	<u> </u>	2400 kg		•





First EIE SA·Ch. de la Vuarpillière 29 · CH-1260 Nyon · Switzerland Tel. +41 22 307 0630 · sales@FirstElE.com · www.FirstElE.com



EDIEGO EDIZOG





The True Figures









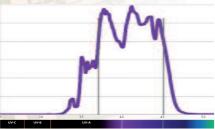
Direct Imagers EDI series First EIE SA

using Latest proven Technology

Main features

- Smart design for simple head adjustment
- Modular design for **easy maintenance**
- Laser auto-focus system
- Integrated registration camera
- Rotation table for improved file to panel adjustment.

Established UV source



Broad UV spectrum, from 365 nm to 450 nm makes it compatible with all industry standard Etch Resists, Solder Masks and Legends.

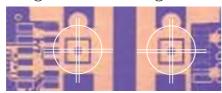


Panel holding

First EIE Granite/Glass table with vacuum zoning system.

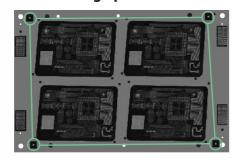


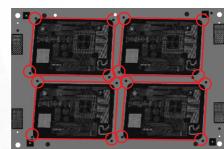
Registration / Alignment



Automated A/B sides registration an scaling using image recognition or locating pins.

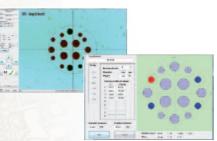
Local Scaling option





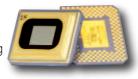
Composite target. To align a single image to multiple sets of hole patterns that have been drilled at different times with potentially different scaling and cordinate origins.

The typical reason for this is when blind vias, microvias, filled vias and through holes are all drilled into the same panel.



DMD Technology

State of the Art Direct Image Projection, using TI's DLP® chip,



our Direct Imager brings to the market a compact and simple direct exposure equipment that is equipped with **DMD** technology.

Software solutions

The EDI500 software offers a very operator friendly interface and superior flexibility in your language. It brings to the system the vast experience of First EIE in file management and data processing.



Optimized Cost

The **EDI500** Direct Imager is compact with a small foot-print, low power consumption, and minimal maintenance requirements.

Optimized Light Source Unit designed for easy lamp replacement.

The **EDI700** Direct Imager is based on gantry technology with linear motors. It's unique vaccum table built with a granite-glass structure brings optimum panel holding, with zone system, and very high accuracy.

Enhanced thermal management is embedded in the machine, there is no need of an external cooling unit.

The Direct Imager series benefits from **the wide expertise** of First EIE, a leading supplier of Photoplotting and Inkjet Printing solutions. An equipment that will address most requirements of production shops that provides Quick-Turn PCBs at an **affordable price**.



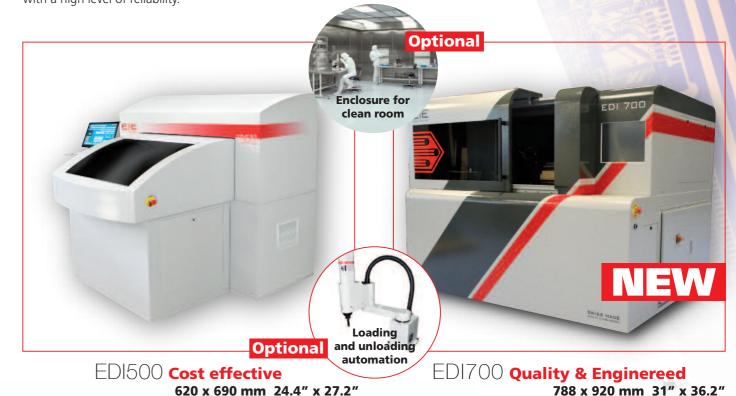




Developed in close collaboration with our partners, our new Direct Imager series integrates an industry proven DMD Optical Head, which is based on TI's DLP chip with a dedicated active thermal management to improve **DMD life time**. The specifically designed optical lens is optimized to offer the highest image accuracy.

SWISS Quality With smart design and First EIE qualified components. **Designed to protect** your investment, our machines will always be upgradable to the next level

ACCESSIBLE This new Direct Imager has been designed to provide even more operational and maintenance simplicity with a high level of reliability.





620 x 690 mm 24.4" x 27.2"

Customized Direct Imagers: Roll-to-roll, sizes over 1000 mm - 34", ...