MIVA
TECHNOLOGIES

3000L DI
Next Generation Direct Imager
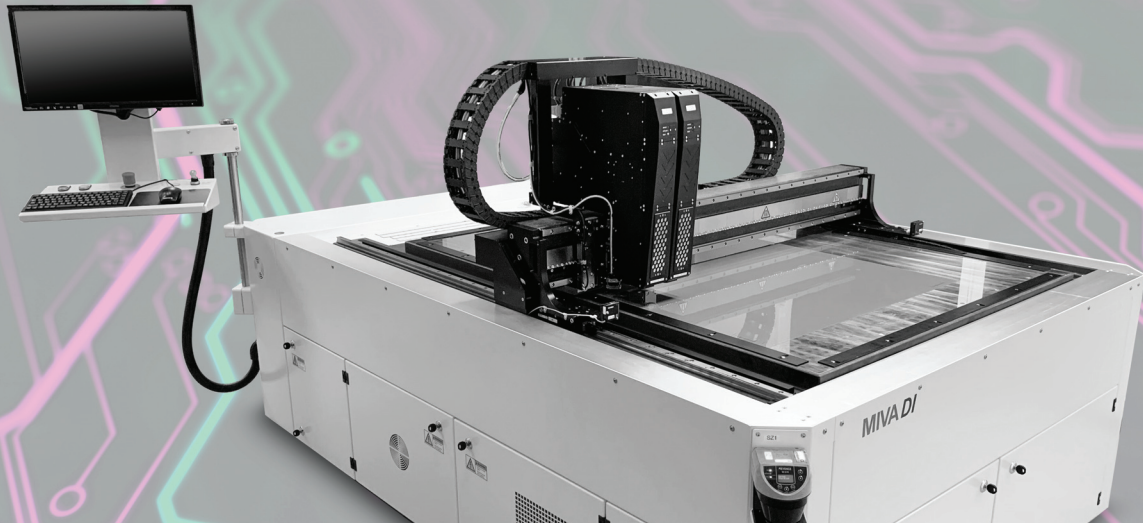
3060L:
30 x 60"
[762 x 1524mm]

4260L:
42 x 60"
[1067 x 1524mm]

- **Custom Large Formats**
- **Panel Sizes:**
  30 x 60" (760mm x 1524mm)
  42 x 60" (1067 x 1524mm)
- **30, 15µ features**
- **Toolless A/B registration**
- **Full Area High Resolution Scaling**
- **Flexible open design**
- **DART compatible**
- **Automation Ready**

3000L DI
Next Generation Direct Imager

Next Generation Imaging incorporates major advances in our tuneable quad-wave LED powered projector technology, new methods of data processing, an external rasterisation engine, no capture related data reloads, full area high resolution scaling, yield and quality improvement tools and much more.

Throughput: NextGen Light Engines are highly powerful and allow you to choose fewer light engines for your throughput, so lowering machine investment costs.

Quad-wave: NextGen employs 360, 370, 390, 405nm LEDs. These can be tuned to match resist sensitivity for imaging efficiency and wall steepness tuning, as well as allowing flexibility in the choice of resist and soldermask types.

DART Compliant: NextGen includes the External Rasterization Engine. This allows high speed rasterization on the fly including digital linewidth compensation and scaling with no wait-states. Use the DART Optimization Suite for full process control.

Vision Enhancements: Miva´s new vision technology permits feature measurement and improves target acquisition. NextGen´s larger field of view makes panel placement easy and can eliminate the need for capture related data reloads.

Resolutions: NextGen is currently available in 30µm, 15µm or 6µm resolution.

DART Optimization Suite:
DART is a quality and yield improvement tool.The DART OS module allows the user to check develop, etch and plating performance everywhere on the panel, then make process adjustments based on the topographical map such as spray bar pressures, AB etch rates, and the like.

External Rasterization Engine:
Provides high speed rasterization at 10x system resolution for high speed, precision digital feature manipulations.

First Article Tool:
The first article tool allows operator level confirmation of feature size post develop/etch/plating. Coupon measurement results are applied to digitally compensate feature sizes.

Process Control Tool:
Miva´s DART system allows you to integrate develop, etch and plating results into the digital imaging process to improve the quality of panels leaving all of these production stages. DART is a feature of the MIVA imaging tool and allows the DI to interpret external process data algorithmically and test coupons visually, and to subsequently (and automatically) implement appropriate changes at the imaging stage, such as feature size, scaling, registration, uniformity across the panel etc, to improve feature size, registration, and total yield.