

LUXBEAM® LRS-MSLA

High-volume micro 3D print subsystem

The LUXBEAM® Rapid System LRS-μSLA is designed for integration into direct-imaging additive manufacturing machines — micro 3D printed mechanical components, lab-on-a-chip systems and the work that needs precision on a micron scale.

5.4 μm**RESOLUTION****< 500 nm****LINE EDGE
ROUGHNESS****> 99%****POWER UNIFORMITY****365 – 420 nm****MULTI-LED SOURCE**

LUXBEAM® LRS-MSLA

Superior resolution modules, perfect for **high-precision micro 3D printing**

Tailor-made to master the highest reproducibility of precision, maximum resolution and a perfect surface finish on a micron scale — maximizing throughput without compromising accuracy, line-width tolerances, cost of ownership or manufacturing flexibility.

RECOMMENDED USE

- ✓ Micro 3D print
- ✓ Scrolling
- ✓ Machine builders
- ✓ PCB manufacturing



Full specification

IMAGING	
DMD Type	DLP9500 (UV) 1920 x 1080 pixels
Resolution	5.4 micron
Pixel pitch	3.8–5.4 μm
Image size	7.3–10.4 × 4.1–5.8 mm
Image plane	30–60 mm ²
Power uniformity	> 99% (PPC corrected)

LIGHT & POWER	
Wavelength	365–420 nm
Power density	7 W/cm ²
Light source	Multiple LEDs, 365 nm - 420 nm
Power consumption	Max 1200 W

MECHANICAL & THERMAL	
Dimensions	478 x 80 x 422 mm
Total weight w/o PSU	9 kg
Cooling system	Liquid cooling

PLATFORM & SOFTWARE	
Software	LAMA Standard
Data format	BMP

ADDITIONAL SPECS	
Native image size	10.4 x 5.4 mm ²
Line edge roughness	< 500 nm
Exposure speed	10 to 780 mm/sec (depending on configuration settings)
Maximum panel size	Unlimited
Maximum build area	Unlimited