



## Hybrid PhotoSynthesis™ (HPS) and TruLayer™

Eliminate all tradeoffs between throughput, accuracy, feature resolution and surface finish.

### Hybrid PhotoSynthesis

Simultaneously images with a Laser and a Digital Light Processing (DLP). The DLP handles large areas for high throughput, while the laser focuses on intricate details and external walls, ensuring high resolution.

### TruLayer

Ensures seamless layer transitions by rapidly detaching the active print layer and eliminates the hydrostatic forces typically associated with layer separation in DLP and LCD printers.

Adaption dynamically adjusts the plate to maintain the precise resin thickness. Unlike other printers, this prevents the need for prolonged curing times and guarantees consistent imaging all across.

## The Benefits

- 2X-20X enhancement in print throughput versus conventional SLA, DLP, LCD
- Glass-like surface finish
- Improvement is agnostic to the layer surface area
- Large mold cross-sections and intricate jewelry printed with equal efficiency
- Eliminates the compromise between print throughput and part size.
- Production enabled

## AXTRA PLATFORMS

### Axtra Solutions™

This provides fully optimized, turnkey 3D printing solutions. Customers receive complete print profiles fine-tuned for maximum performance and reliability, supported by Axtra3D's Applications team and quality material partners.

### Axtra OpenAccess™

This model further builds on Axtra Solutions™ and allows customers the flexibility to experiment with new materials and applications. It supports innovation and adaptability, enabling added flexibility.

# X1 LUMIA 3D Printer Tech-Specs

**Model:** Hi-SPEED SLA Lumia X1

**Design:** Industrial Grade / Production Ready

**Separation Technology:** TruLayer Adaptive Separation

**Max Print Volume:** 9.8 x 5.5 x 19.6in - 249 x 140 x 499mm

**XY Resolution:** up to 50um

**Z Axis Resolution:** Double Z-Axis up to 5um step

**Layer Thickness:** from 25 to 200um and more, material dependent

**Light Source:** HPS Simultaneous Laser and 4K DLP Imaging

**Spot Size:** 60um +/- 15%

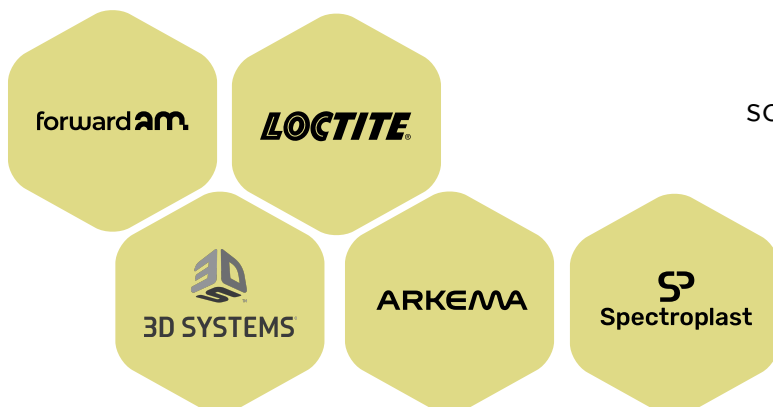
**Software:** AxtraVolume Software (included) & Open System Available

**Slicer:** Proprietary HPS Slicer (included)

**File Format:** STL, 3DMF, AMF, CLI, OBJ, Polygon, ExoCAD, Slice & SLA

**Materials:** 405nm Resins

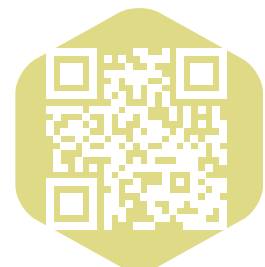
**Regulatory Conformity:** CE / FDA / RoHS Compliant - NRTL ready



## AXTRA ECOSYSTEM

Fully optimized, turnkey application solutions from all key Material Partners.

Scan and Download our Materials List



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