



VISITECH
Creating images - together

DLP[®]
TEXAS INSTRUMENTS



LUXBEAM[®] RAPID SYSTEM – LRS-4KA

The LUXBEAM[®] Rapid System LRS-4KA is an extremely high resolution DLP[®] based stereolithography sub-system designed for additive manufacturing of highest resolution parts in combination flexible build area and high building speed. The LRS-4KA system offers 8,3 million addressable pixels and projects UHD-4k images using an optical actuator. It is specifically designed for static implementations in additive manufacturing systems.

The system includes an UV LED light source and a UV-optimized optical system. In combination with the actuator supported high resolution DLP660 chip, the light engine offers a long lifetime and competitive costs.

The system is configurable with different LED options as well as off-the-shelf or custom designed imaging lenses at different magnifications

The LRS-4KA Light Engine is an advanced and extremely competitive plug-and-play system/module that will enable customers to design, build and brand a Rapid Manufacturing machine with a very short time to market and at very low technical risk.

The LRS-4KA Light Engine comprises Keynote Photonics' advanced LC4KA-EKT Controller.



VISITECH

Creating images - together



LUXBEAM® RAPID SYSTEM – LRS-4KA

Electrical connections	Signal	Connectors	
Power supply	12 V DC	Neutrik 3 pin XLR Male	
Data	HDMI or DP	HDMI and DisplayPort	
Communication Option 1	USB	USB Type B	
LED Safety Switch	LED Enable/disable	Hirose HR25A-7R-4S	
Electrical Sync I/O	External frame synchronization	RS485	
Optical Sync I/O	External frame synchronization		
Properties			
DMD Type	DLP660TE (2716 x 1528 Pixels)		
Resolution	8,3 million addressable pixels (UHD-4k images with optical actuator)		
Projector Output Power	Up to 3,5 W		
LED Options	Monochrome R, G, B, 405 nm, (380 nm), other wavelengths upon request		
Power Uniformity	> 80% native		
Size w/o lens	180 mm (L) x 140 mm (B) x 228 mm (H)		
Total weight w/o PSU	4 kg		
Power consumption	200 W		
DLL API and GUI	available		
Lens Options	Magnification	Pixel Pitch in Image	Build Size [mm ²]
LRS-4KA 14x	14,0 : 1	75,0 micron	204 x 115
LRS-4KA 17x	17,0 : 1	90,0 micron	245 x 138

All specifications and features subject to change (v1.0).

VISITECH Engineering GmbH | Christian-Kremp-Strasse 9 | 35578 Wetzlar | Germany
 Phone: +49-(0)6441-446756-0 | E-Mail: contact@visitech.no

www.visitech.no

DLP® and the DLP® logo are registered trademarks of Texas Instruments Inc.; VISITECH and LUXBEAM® are registered trademarks of VISITECH AS, Norway; LEDBEAM™ is a trademark of VISITECH AS, Norway