LUXBEAM® RAPID SYSTEM – LRS-WQm

LUXBEAM® RAPID SYSTEM – LRS-WQm

Excellent cost-performance and compact box size

The LUXBEAM® Rapid System LRS-WQm is specifically designed for implementation in compact desktop-type 3D Printing and additive manufacturing systems. With 4 million native pixels, it offers a superior resolution DLP® based stereolithography sub-system. At the same time, it considers the needs of the cost-sensitive desktop 3D print industries, offering superior quality and performance at competitive costs.

HIGH-RESOLUTION STATIC CONFIGURATION

With the UHD-resolution DLP660TE chip, the LRS-WQm offers over 4 million pixel native resolution and projects high-resolution images with superior image quality. Furthermore, the system comprises a UV-optimized optical system and configuration with different LEDBEAM™ UV LED light sources, as well as a growing number of lens options with different magnifications.

The dedicated controller electronics provide industry-proven reliability and industry-standard data and communication interfaces.

LUXBEAM® RAPID SYSTEM – LRS-WQm

Recommended implementation
• High resolution desktop configuration

Available operation modes
• 2716 x 1528 native pixel mode

LED Wavelengths
• 465 nm / 405 nm / 380 nm / 365 nm

Optical Power Output
• Up to 5 W (with 405 nm), 4.5W (with 385nm), 2 W (with 365nm)

Projection Lens Options
• 1.0x, 2.0x, 3.7x, 4.6x, 9.3x, 13x
• More options under development

Electronics
• Advanced LC4KA-EKT Controller

VISITECH
creating images – together

LUXBEAM® RAPID SYSTEM – LRS-WQm

Properties	
DMD Type	DLP660TE
Resolution	WQXGA (2716 x 1528 px)
Projector Output Power	Up to 5 W (with 405 nm) / 4.5W (with 385nm) / 2 W (with 365nm)
LED Options	Monochrome 465 nm / 405 nm / 380 nm / 365 nm
LED Driver	Constant flux with Optical Feedback or Fixed Current
Power Uniformity	> 90% native
Dimensions w/o lens	190 mm (L) x 150 mm (B) x 228 mm (H)
Total weight w/o PSU	4 kg
Power consumption	200 W
Cooling system	Air cooling (fan)
Software	Complete API (Windows, Linux), Graphical User Interface

Electrical connections	
Power supply	12 V DC
Data	HDMI, DP
Communication	USB
LED Safety Switch	LED enable/disable
Electrical Sync I/O	External frame synchronization

Lens Options	Working Distance [mm]	Pixel Pitch in Image [µm]	Native Image Size W x H [mm²]		
LRS-WQm 1.0x	71.2	5.4	14.7	x	8.3
LRS-WQm 2.0x	90.0	10.8	29.3	x	16.5
LRS-WQm 3.6x	147.5	20.0	54.3	x	30.6
LRS-WQm 4.6x	180.0	25.0	67.9	x	38.2
LRS-WQm 9.3x	224.0	50.0	135.8	x	76.4
LRS-WQm 13.0x	350.0	70.0	190.0	x	107.0
Other lens options under development					

All specifications and features subject to change.

VISITECH