



## LUXBEAM<sup>®</sup> RAPID SYSTEM – LRS-WQm

The LUXBEAM<sup>®</sup> Rapid System LRS-WQm is specifically designed for implementations in **compact desktop-type** 3D Printing and additive manufacturing systems. With its 4 million native pixels it offers a superior resolution DLP<sup>®</sup> based stereolithography sub-system. At the same time, it takes into consideration the needs in 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 pixels native resolution and projects high resolution images with superior image quality. The system comprises an UV-optimized optical system and configuration with different LEDBEAM<sup>™</sup> UV LED light sources, as well as a growing number of lens options with different magnifications.

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

### 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 2,5 W

### Projection Lens Options

- LRS-WQm 13x
- More options under development

### Electronics

- LUXBEAM<sup>™</sup> Controller from Visitech
- Integrated CPU with Web Interface

## LUXBEAM<sup>®</sup> RAPID SYSTEM – LRS-WQm

Properties	
DMD Type	DLP660TE
Resolution	WQXGA (2716 x 1528 px)
Projector Output Power	Up to 2,5 W (depending on LED configuration)
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) and GUI, platform independent web interface

Electrical connections	
Power supply	12 V DC
Data	HDMI or Ethernet
Communication	Ethernet
LED Safety Switch	LED Enable/disable
Electrical Sync I/O	External frame synchronization
Optical Sync I/O	External frame synchronization

Lens Options	Magnification	Working Distance [mm]	Pixel Pitch in Image [µm]	Native Image Size W x H [mm <sup>2</sup> ]
LRS-WQm 13x	13 : 1	310 350 370	60.0 70.0 (nominal) 80.0	163 x 192 190 x 107 217 x 122

Other lens options under development

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

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