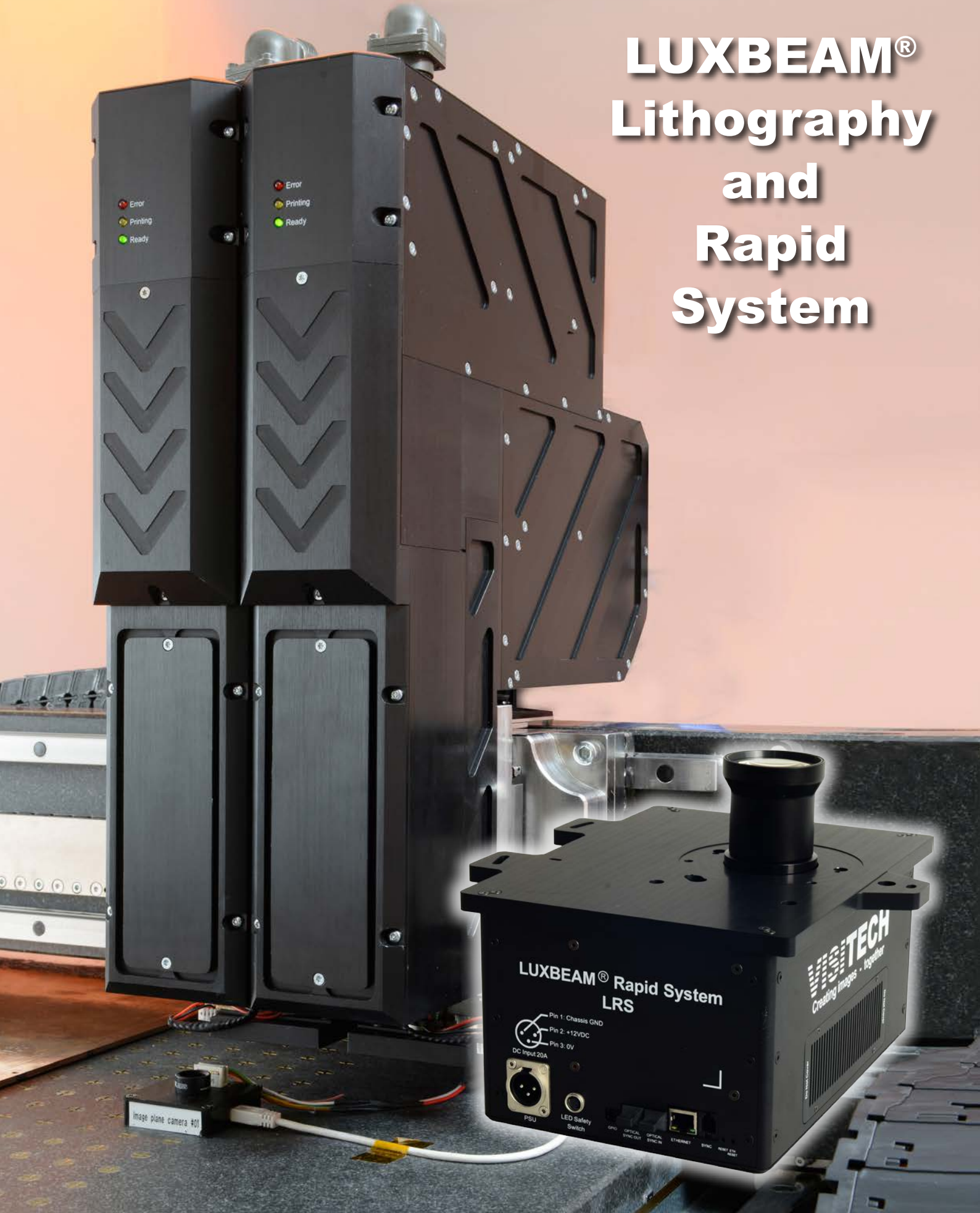


**LUXBEAM®  
Lithography  
and  
Rapid  
System**



## LUXBEAM<sup>®</sup> LITHOGRAPHY SYSTEM

The LUXBEAM<sup>®</sup> LITHOGRAPHY SYSTEM (LLS)\* is a DLP<sup>®</sup> based imaging sub-system designed for Direct Imaging of PCBs and other Lithography applications. The system includes an UV LED light source which, in combination with the robust and reliable DLP<sup>®</sup> technology, provides a system with long life time and low maintenance cost.

The LLS is configurable and is available in 2 to 8 head configurations to fit the needs for throughput and level of automation in the lithography machine. The already proven and reliable LLS is a plug and play system/module that will enable customers to design, build and brand a PCB Direct imaging lithography machine, being semi-automated or fully automated, with a very short time to market and with low technical risk. The LLS will provide a PCB system capable of 30  $\mu$ m line / space and with a very high throughput of panels per hour.

Our reference LSS lithography machine is available for demonstration and test manufacturing of PCB samples for evaluation of performance and throughput.

PCB samples can be ordered through [contact@visitech.no](mailto:contact@visitech.no).

*\* Patented and patents pending*



30  $\mu$ m Line/space



Gbit data loading



Liquid cooling UV LED



Extreme optical performance

image plane camera #01

# LUXBEAM® RAPID SYSTEM

The LUXBEAM® RAPID SYSTEM LRS\* is a DLP® based stereo lithography sub-system designed for additive manufacturing of high resolution parts in combination with large build area and high building speed. The LRS uses the advantage of a moving photohead to create a large build area and enables smart functions like Subpixelation (SPX) for resolution enhancement, and Pixel Power Control (PPC) ensuring equal amount of energy to each pixel in the resin.

The system includes an UV LED light source which in combination with the robust and reliable DLP® technology provides a system with long life time and low maintenance cost. The LRS is configurable and is available in single or multi head configuration to fit the needs for throughput and build area in the machine. The already proven and reliable LRS is a 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 with low technical risk.

The LRS will provide a system capable of 25µm in XYZ resolution in combination with 10 - 20 cm width of build area and a customer defined length in the motion direction, - typical 1 meter. Other configurations with higher or lower resolution can be configured via dedicated lens design.

Our reference Lithography machine is available for demonstration and test manufacturing of samples for evaluation of single layer 3D performance and throughput.

Samples can be ordered through [contact@visitech.no](mailto:contact@visitech.no)

*\* Patented and patents pending*



Scrolling lens design

## DLP® Electronics and Module manufacturing

Following a successful development project, VISITECH can supply custom design electronics and optical modules from our own factory. Our facilities are optimized for low to medium manufacturing volumes of DLP® light engines. All our optics and system assembly and testing is handled in clean room environment.

VISITECH's customer support and manufacturing engineers ensure high quality and reliability on the electronics and modules delivered for series production. VISITECH keeps focus on manufacturing support, test equipment design, test procedures and continuous quality monitoring during manufacturing and RMA processing. Utilizing the long experience from high volume manufacturing of DLP® projectors, VISITECH is able to ensure superior quality. VISITECH's logistics will manage component availability, competitive pricing and timely deliveries to any destination.



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