HIGH VOLUME
HIGH RESOLUTION
HIGH SPEED

LUXBEAM® RAPID SYSTEM – VISITECH

CREATING IMAGES – TOGETHER

Leading productivity, scalability, and performance

The industry's most extensive DLP experience powers our state-of-the-art photohead subsystems, for incorporation into your next-generation additive manufacturing machines. Yield and resolution unite with a superior lifetime for industrial implementations. Powerful UV or IR light engines support volume-boosting stacked and scrolling configurations. The result? Innovative development of high-detail, high-throughput AM machines that endure.

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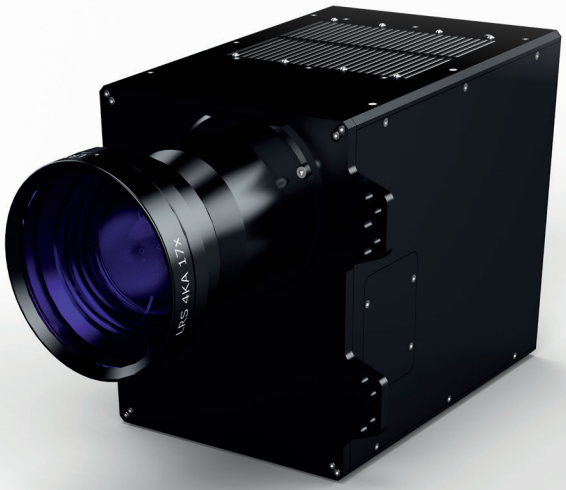
Performance for industrial productivity.

LUXBEAM® RAPID SYSTEM – STATIC

LRS-4KA/WQm SERIES



POWER AND THROUGHPUT

The LRS-4KA projector subsystem makes UV optics, hardware and software work together to deliver superb 4K resolution, high power, and high throughput in an easy-to-use, reliable package. Customizing wavelength and projection lens assembly for individual system requirements gives you flexibility.

The LRS-4KA LC, the recently introduced liquid-cooled product version, was developed for stacked configurations with multiple projectors in mind. As a result of the light engine's slim footprint, seamless stitching of projectors allows for large vats at unprecedented resolution. In addition, the liquid-cooling circuit supports improved thermal management – and along with it, longer LED lifetime, less vibration, and superior robustness.

LRS-WQ SERIES

Specifically designed for professional static additive manufacturing and prototyping systems, the LRS-WQ series comprises one air cooled and two liquid cooled product versions.

Each version offers unique beneficial features in terms of power, ranging from 4 W with single 365 nm LED to a massive 12,5 W for the Dual LED Liquid Cooled version, providing unparalleled image performance and power throughput in near-UV wavelengths. All share the same compact cabinet size, allowing easy swapping. Multiple lens options provide a pixel pitch range from a mere 2 microns, up to 130 microns.

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LUXBEAM® RAPID SYSTEM – SCROLLING

LRS-MCx HD

The HD-UV DMDs drive our UV-SLA light engines to peak performance. Narrow footprint enables module stackability, with stitched images down to 50 micron pixel pitch. This enables the highest manufacturing throughput with a single-pass linear motion system in a scrolling configuration. Special features grant pixel-precise alignment of the modules, and the robust, reliable, and high-resolution, liquid-cooled modules offer extensive lifetime and ultimate performance.

STACKED HEADS FOR BEST PRODUCTIVITY

The stackable and configurable LRS-MCx UV module is specifically designed for static and scrolling multihead AM system implementations, which typically comprise at least two modules on a linear stage system. Light source power output is optimized for N-UV. A range of lens options supports wide scalability.

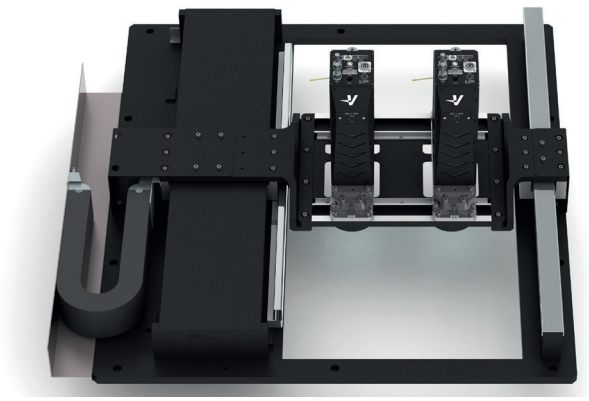
LRS-MCx WX NIR

Visitech introduces the LRS-MCx WX NIR light engine with integrated high power laser diode modules, providing unprecedented near-infrared power of more than 100 W in the projected 2D image. For polymer-based powder bed fusion (PBF), the subsystem offers a path toward high productivity systems. DIS (Direct Image Sintering) with LRS-MCx WX NIR offers a superior alternative versus classical SLS techniques, rationalizing towards a pure layer-by-layer approach with instant 2D imaging.

ACCELERATING POWDER BED FUSION

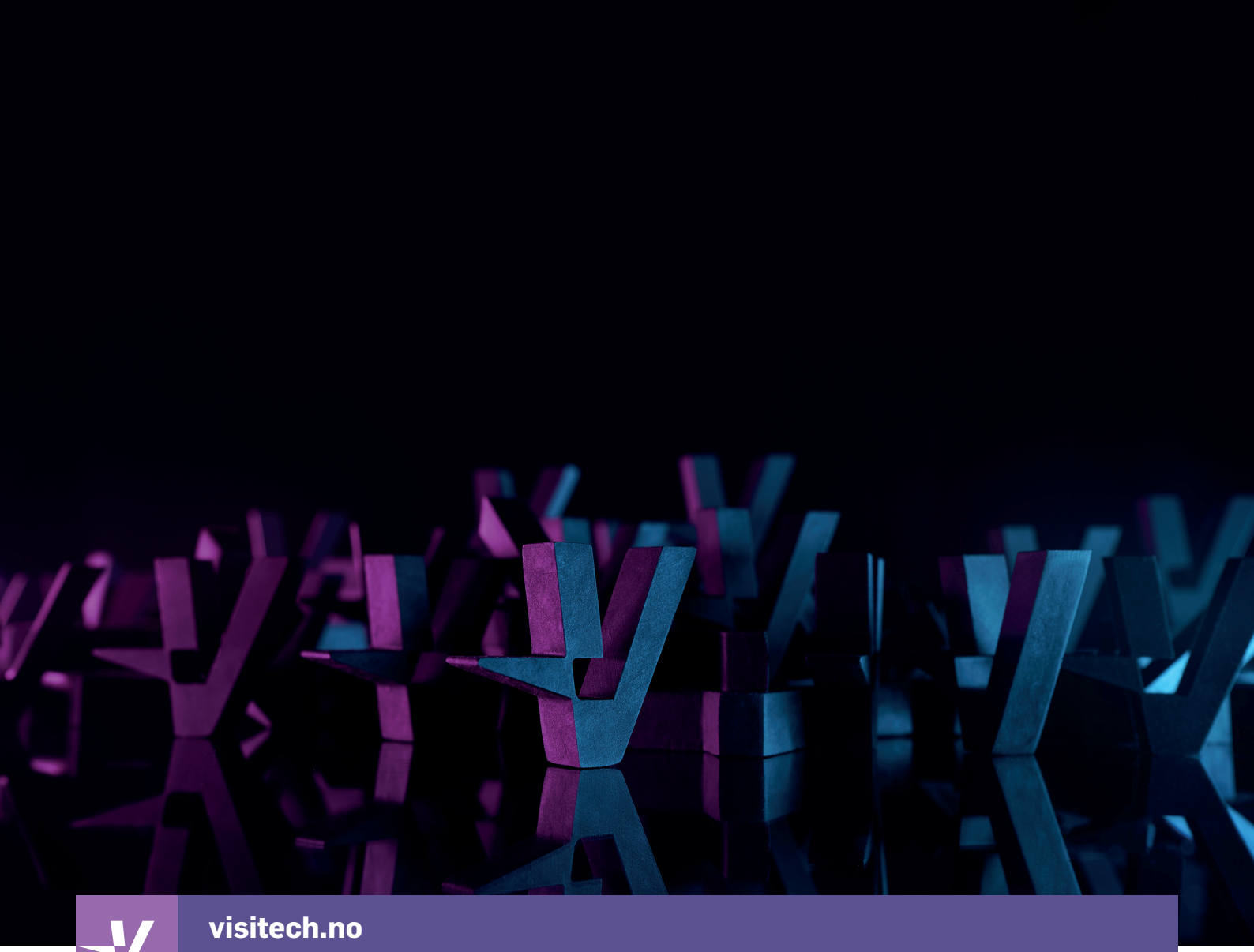
The liquid-cooled LRS-MCx WX NIR modules offer stackability for stitched images in static, step-and-flash, or scrolling configurations. For single-pass linear motion systems, this enables the highest manufacturing throughput. In addition, alignment features grant pixel-precise alignment of the modules.

LUXBEAM® LRS-MCx MOTION STAGE: PLUG-AND-PLAY SOLUTION FOR MULTIHEAD SCROLLING



ENLARGING THE BUILD AREA

While introducing multi-head scrolling as the most advanced solution for scaling up 3D print stereolithography systems productivity, Visitech adds a plug-and-play reference stage to its portfolio. It is designated to help expert static 3D print machine developers and manufacturers in their exploration of scrolling systems for new business opportunities. In addition, Visitech offers supply of custom motion system configurations to further improve machine development cycles.



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WHO IS VISITECH?

We're a global manufacturer and distributer of high-end DLP subsystems for machine builders and tool makers within additive manufacturing, bioprinting, and direct imaging lithography. Our subsystems result from elaborate R&D efforts and integrate into our customers' state-of-the-art industrial imaging products. Contact your nearest Visitech office today to start creating images – together!

GET THE DETAILS

Extended technical details and complete data sheets are found and downloaded at visitech.no. Specific needs? Contact us for input and assistance on particular application requirements!

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