

PRESS RELEASE

New Laser Scan Systems for Micromachining and a Multi-head Setup for Greater Productivity

SCANLAB provides interactive insights in product development at the trade fair

Puchheim, Germany, June 18, 2025 - SCANLAB GmbH, the leading OEM manufacturer of laser scanning systems, is using the Laser World of Photonics trade fair in Munich to present numerous new products. From June 24, visitors can witness the SCANcube IV 7 in action at the Munich exhibition center: In a multi-head setup, six synchronized scan heads impressively demonstrate the speed that the new system offers. They can also discover the completed, particularly productive intelliSCAN IV product family and take an interactive look behind various development projects and discuss them with product experts.



The compact high-performance scan heads of the intelliSCAN IV product family have been further extended. The new intelliSCAN IV 10 scanner with 10-millimeter aperture is ideal for use in micro material processing and structuring. With the innovative SCANahead control, it achieves write speeds of around 1,310 cps in good quality. The achievable maximum

speed corresponds to 360 rad/s or a remarkable 57.6 meters per second when using a lens with a focal length of $f = 160$ mm.

The second new addition is the intelliSCAN_{se} IV 30 with digital encoders. The latter provide it with a significant increase in long-term stability combined with maximum precision, which makes it ideal for additive manufacturing. All laser scan heads in this series set standards in terms of compactness, performance and integration capability. Thanks to the reduced dimensions, integrated water cooling and a dust and water-protected housing with IP66 protection class, they are ideally equipped for demanding industrial use. Users can choose between classic scanner control with tracking delay and the particularly dynamic SCANahead control. Further apertures with digital encoders will follow in the next 12 months. In addition, all these scan systems are 'ready for SCANmotionControl'.

Synchronous scanning and a look behind the scenes

Another show highlight is the multi-head setup with the SCANcube IV 7, which was only presented at the beginning of the year. Six scanners arranged in a row demonstrate their joint dynamic peak performance live. Reliable synchronization is achieved with RTC6 control boards. The particularly compact scan heads are especially suitable for laser marking and coding thanks to their high writing speeds of up to 1,840 cps.

For the first time, SCANLAB will be presenting its various development projects with an interactive 'Innovations Board' at the trade fair. The innovations include a new solution approach for beam shaping, a concept idea for a modular welding scanner, a self-tuning approach for individual on-site adjustments as well as the new software framework for additive manufacturing. Visitors can talk to the respective product managers in person and discuss their own requirements.

Printable image material for download

<https://www.scanlab.de/en/news-events/image-library>

Event Calendar:

Laser World of Photonics from June 24-27, 2015 in Munich, Germany – Visit SCANLAB in hall A3 at booth 322.

About SCANLAB:

SCANLAB GmbH is a world-leading and independent OEM manufacturer of scanning solutions for deflecting and positioning laser beams in three dimensions. At the company's headquarters in Puchheim near Munich, around 500 employees strive to ensure continuous innovation and a production capacity of over 40,000 systems every year.

SCANLAB's high-performance galvanometer scanners, and scan systems stand out from the crowd for their speed and precision, and are widely used in industrial material processing, electronics, food and beverage industries, as well as in biotechnology and medical technology.

Through groundbreaking developments in the fields of electronics, mechanics, optics and software, as well as the highest quality standards, SCANLAB has consistently extended its international technological lead over 35 years.

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