

## Latest scanning solutions for demanding laser production

**RAYLASE is part of the Laser World of Photonics 2023 and presents its latest solutions for optimizing laser-based production**

Wessling, Germany - 24th May 2023 - RAYLASE, a renowned leader in laser beam deflection technology with over 20 years of experience, is excited to announce its participation in the Laser World of Photonics exhibition in Munich. The event will serve as a platform for RAYLASE to showcase its latest laser scanning solutions, which are designed to significantly improve production processes by enhancing performance, efficiency, and flexibility.

As a trusted partner in some of the most dynamic and demanding markets, including additive manufacturing, solar and PV production, and laser welding, RAYLASE is committed to collaborating with customers and partners to achieve common goals. The company's motto "The Power of We" centers around deep understanding of customers' processes and requirements, enabling the development of innovative laser processes and machines.

RAYLASE takes pride in offering complete solutions rather than mere components. Alongside their beam deflection units, the company provides an extensive portfolio of optics and software solutions for its scanning systems. Additionally, RAYLASE offers comprehensive support, including installation and training, to ensure customers can maximize the potential of their laser scanning solutions.

Visitors to RAYLASE's booth at the Laser World of Photonics exhibition will have the opportunity to explore an array of cutting-edge products and engage with industry experts. Whether in need of high-speed and high-precision laser beam positioning for 3D printing, reliable and scalable laser processing for solar cells and modules, or laser welding for automotive and e-mobility components, RAYLASE is poised to provide optimal solutions tailored to each application.

### **AM MODULE III – Get Ready for AM Production**

Designed to meet the demanding requirements of additive manufacturing production, the new AM MODULE III combines the expertise from RAYLASE's AXIALSCAN FIBER series and AM MODULE NEXT GEN. Key features include superior productivity with in-Focus Zoom and multi scan head design, reduced spot variations, and compatibility for beam shaping and high laser powers.

### **SUPERSCAN IV 20 Solar – Laser Processing for Large M12 Wafers**

Addressing the limitations of laser scanning systems in solar wafer production, the SUPERSCAN IV 20 Solar enables efficient processing of larger M12-size wafers. It offers a suitable field size, maintains spot size consistency, and provides high scanning speed, enhancing production throughput.

### **AXIALSCAN Fiber 20/30 RD – High Productivity for Battery & Fuel Cell Production**

Developed for laser welding and cutting applications, the AXIALSCAN FIBER 30 RD uses the RAYVOLUTION DRIVE technology, enabling precise focus control and expanding processing speeds also in large field sizes. Its dust-proof housing and cleanroom production facilities make it suitable for high-power applications.

### **RAYGUIDE MATCH – Quality Assurance for Laser Applications with Automatic Laser Path Alignment**

RAYGUIDE MATCH, a new feature of the RAYGUIDE software, revolutionizes laser application quality assurance. By automatically detecting representative marks on workpieces and adjusting scan patterns accordingly, RAYGUIDE MATCH streamlines production processes and ensures precision with component positioning tolerances.

## **SCAN FIELD CALIBRATOR 600 – Precise and Reproducible Laser Production**

The SCAN FIELD CALIBRATOR 600 simplifies and accelerates the calibration process for laser systems. Offering fast and accurate calibration in multiple directions, it significantly reduces the time and effort required for maintaining a stable and reliable process.

RAYLASE invites attendees to visit their booth B3.211 at the Laser World of Photonics exhibition to convince themselves firsthand of the capabilities of these innovative laser scanning solutions. The company's experts will be available for in-depth discussions, live demonstrations, and consultations on finding the optimal laser scanning solution. In-person meetings can be scheduled already now using the RAYLASE webpage: <https://www.raylase.de/en/about-raylase/events/laser-munich-2023.html>

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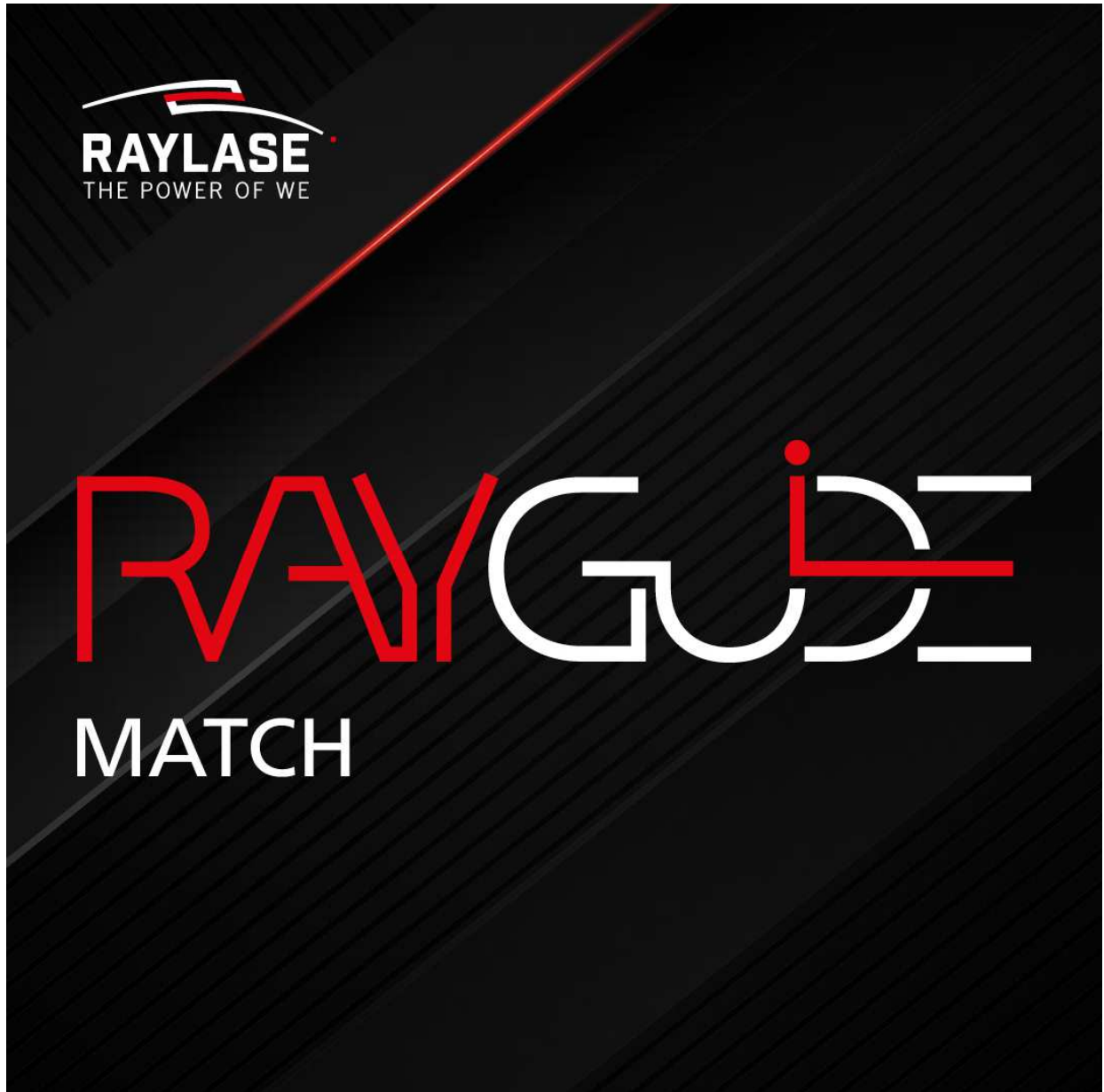
## **About RAYLASE**

RAYLASE GmbH is the solution provider for laser applications in industrial environments. Since 1999, the Bavarian company from Wessling near Munich, provides innovative laser deflection systems for precise and efficient laser material processing. By combining opto-mechanical scanners with sensor technology and intuitive software, it enables optimized laser systems that are made for industrial production.

RAYLASE has its focus in the e-mobility and AM market as well as in the solar and electronic sectors. With its subsidiary and its own additional production facility in Shenzhen, China, it offers a high production depth and optimized delivery times. Together with several international representatives in the US, Italy, Japan, Korea, and Taiwan, the RAYLASE group with its 170 employees supports customers worldwide with industrial solutions for laser cutting, laser welding and laser surface processing.



The SUPERSCAN IV 20 SOLAR is our innovative scanning solution for cost-efficient wafer production. In combination with suitable optics, it can handle large field sizes of up to 210 x 210 mm<sup>2</sup>, while maintaining the required spot size and scanning speed for the production of M12 wafers.



The new position recognition plug-in MATCH of the RAYGUIDE software acquires and analyses images of representative markings of the workpiece. Based on this information, MATCH then adapts the laser process automatically.



Our SCAN-FIELD-CALIBRATOR 600 enables a fast and precise calibration of your scanning system in xy- and z-direction. The entire process is automated and controlled by only one software. This saves effort and time and ensures a stable process.