



## The Unique RAZORSCAN-AC by RAYLASE

- **The new laser beam deflection unit with integrated auto-calibration offers maximum precision with guaranteed long-term drift stability**

Wessling, May 04<sup>th</sup>, 2010 – At this year's [LASYS](#) trade fair, [RAYLASE](#) AG, a leading manufacturer of components and subsystems for the deflection, modulation, and control of laser beams, will present the RAZORSCAN-AC (RS-AC) featuring the world's first auto-calibrating galvanometers. The galvanometers, the integrated digital auto-calibration devices and the auto-calibration software were all developed in-house by RAYLASE. The precision 2-axis subsystem guarantees long-term stability: offset and gain errors are compensated in seconds. The innovative twin-shell design allows ambient temperatures of up to 40 degrees Celsius.



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The integrated auto-calibration feature of the RAZORSCAN-AC ensures that gain drift and offset drift are corrected in seconds. The calibration software developed by RAYLASE and integrated in the DLL of the SP-ICE card can be used both by weldMARK 2.0 and by customer-specific software solutions.

The combination of exact verification of coordinates, control of deflection with  $\mu$ rad precision, and auto-calibration makes the RAZORSCAN-AC product unique worldwide.

The aluminum twin-shell construction ensures that generated heat is distributed across the entire deflector head, almost completely eliminating temperature gradients. Optimized temperature management ensures that the whole module maintains temperature equilibrium. The RAZORSCAN-AC, available with apertures of 10, 12, 14 and 20 mm, is ideal for accurate material processing such as rapid tooling, deep engraving, edge isolation, and trimming.



Peter von Jan, CEO of RAYLASE AG, comments as follows on the new RAZORSCAN-AC: “We are very proud of our unique deflector head which represents a milestone on the laser component market. The RAZORSCAN-AC guarantees maximum precision and is perfect for applications for which the position of the focused laser beam in the field must remain constant for a long period, i.e. must not drift.” von Jan goes on to emphasize: “We developed the galvanometer scanner in-house and the deflector unit is manufactured entirely by us, all of which ensures that our exacting quality standards are met.”

#### **The RAZORSCAN-AC in brief:**

- The world’s first galvanometer scanner with integrated auto-calibration, for highest accuracy
- Guaranteed long-term stability
- Innovative twin-shell design for optimal thermal management
- Available with 10, 12, 14 and 20 mm aperture

Images of the RAZORSCAN-AC are available on request from the HBI PR agency: [Stefanie.Wiedenhoff@hbi.de](mailto:Stefanie.Wiedenhoff@hbi.de)

#### **About RAYLASE AG**

RAYLASE AG develops and manufactures high precision components and subsystems for deflection, modulation, and control of laser radiation for laser systems from a few milliwatts up to several kilowatts. The company, headquartered in Wessling near Munich, is DIN EN ISO 9001:2000 certified and offers high quality consultancy services and customized products, developed and optimized in cooperation with clients and their customers. A worldwide network of distributors and representatives and a wholly owned subsidiary company in China help to promote international sales. The in-house applications laboratory ensures in-depth testing of the company’s own new developments, and allows testing of laser materials processing to be conducted in collaboration with clients. The products are particularly suitable for machining of materials by way of marking, engraving, perforating, cutting, welding, rapid tooling, structuring, and for the machining of moving parts and 3D applications. RAYLASE deflector units are successfully used by leading laser system manufacturers and integrators in the printing, packaging, semi-conductor and electronics industries, and also in photovoltaic and automotive applications. RAYLASE AG stands for product quality, reliability and flexibility combined with expertise and many years of experience.

For further information, please visit [www.raylase.com](http://www.raylase.com)



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