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SUPERSCAN-LD: Laser deflection with record precision

- **2-axis laser beam deflection unit by RAYLASE with water tempering and ceramic mirrors for high deflection speed, low drift values and extremely good long-term stability**

RAYLASE AG, worldwide leading manufacturer of high-precision components and subsystems for deflection, modulation and control of laser deflection, is expanding the well-known SUPERSCAN series with SUPERSCAN-LD. Thanks to its very small spot diameter and high processing speed, the new deflection unit is extremely well equipped for the most precise requirements in the packaging industry, such as cutting, perforating or kiss-cutting.

The new 2-axis laser beam deflection unit SUPERSCAN-LD is impressive with its record low long-term drift values of less than 200 μ rad over 24 hours with simultaneous positioning speeds of over 6 m/s in a working field of 140 mm x 140 mm. This is made possible through water tempering and the utilization of ultra-light, highly rigid ceramic mirrors with dielectric coating and integrated cooling fins.

To support high-performance applications, RAYLASE offers optional air cooling on the rear side of the deflection mirrors. SUPERSCAN-LD is currently available with an aperture of 30 mm or as a combination in a 3-axis laser beam subsystem. The deflection unit is mechanically and electronically compatible with the XY2-100 standard and digitally controlled with a control card.

“The new XY-deflection unit SUPERSCAN-LD combines the best drift values in the market with the outstanding high-speed design of the SUPERSCAN-SC”, Peter von Jan, CEO of RAYLASE AG comments on the development. “This makes it possible for our customers to reach a previously unknown level with respect to speed while at the same time maintaining accuracy and long-term stability. With the SUPERSCAN-LD we are repeatedly proud demonstrate our position as a worldwide leading company in the development of high-performance deflection units for laser systems.”

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RAYLASE AG is a world-wide, trend-setting enterprise that develops modular components and assemblies to deflect and modulate laser beams and sells these internationally. Since its foundation in April 1999, RAYLASE has been facing the challenges in this field and supplying the market with innovative solutions. A global network of experienced specialists, external advisers, research and development facilities guarantee customers a range of products and services to the highest international standards.