
Press release

22. December 2011

Z-LASER achieves 5% homogeneity with improved Powell lens for the ZM12 and ZM18 laser families

December 22, 2011 – Freiburg, Germany – **Z-LASER**, a leading manufacturer of lasers and laser systems, is pleased to announce that its ZM12 family of small lasers now supports homogeneous light distribution (HLD). Following the successful integration of the new Powell lens technology into its ZM18 laser family, **Z-LASER** has adapted the improved HLD technology to their ZM12 family of lasers, which were previously only available with Gaussian light distribution.

Encased in a 45 mm housing, the ZM12 laser projects a line with an unprecedented +/- 5% homogeneity of light distribution. With guaranteed light distribution across the projected line, machine vision algorithms will produce results with greater accuracy than with Gaussian light distribution. "Improving the performance of the Powell lens technology is quite an engineering feat," explains Ralph Tesson, Director, **Z-LASER** America. "This kind of homogeneity can produce excellent results, especially when using slightly longer camera exposures for applications that previously might have required a speckle-reduced laser."

About ZM12 laser family

The ZM12 production series is a compact, entry-level laser product and offers an excellent price-performance ratio for profiling or positioning applications in the machine vision, automotive, medical equipment, or textile industries. To see a complete list of features or to download the product datasheet, click [here](#).

To download a product photo, visit <http://www.z-laser.com/downloads.html>.

About Z-LASER

Established in 1985, **Z-LASER** is a recognized developer of laser systems for industrial, medical and laboratory applications. Staffed by a team of creative engineers, **Z-LASER** finds innovative solutions and applications for optoelectronics and laser technology. For more company information, visit www.z-laser-america.com.

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