

Laser Modules with Truly Random Patterns

Pattern Generators for 3D Stereo Image Processing

The FLEXPOINT® MVstereo laser module from LASER COMPONENTS is now also available with truly random patterns with 31,806 or 47,708 dots. These patterns are generated completely randomly; even in partial patterns, repetitions do not occur. The range of pseudo random patterns has also been expanded: Versions with 40,100 and 29,594 dots are now also available. Due to the different number of dots and the different fan angles of the patterns, the customer can choose the optimal optics for his application. Both versions are available with red (660 nm) or NIR (830 nm) lasers, and both are eye safe (laser class 1 and 1M).

The FLEXPOINT® MVstereo was specially developed for 3D stereo image processing, in which three-dimensional structures are calculated from the pixel information. One basic prerequisite for this method is that all the pixels of the two camera images be able to be clearly assigned during image comparison. However, this is only possible on unambiguously textured surfaces. For smooth, monochrome structures, either markers or random patterns are used. The pattern generator of the MVstereo projects a randomly-arranged cloud of dots. Each dot can be assigned to a specific position.

More Information

www.lasercomponents.com/us/product/flexpoint-mvstereo/

Trade Shows

SPIE Photonics West, February 05 – 07, 2019, San Francisco, USA, **Booth 1751**
ATX West Automation, February 05 – 07, 2019, Anaheim, CA, USA, **Booth 4166**
BREKO, March 27 – 28, 2019, Wiesbaden, Germany
Automate, April 08 – 11, 2019, Chicago, IL, USA, **Booth 8536**
SPIE DCS, April 16 – 18, 2019, Baltimore, MD, USA, **Booth 524**
ANGACOM, June 04 – 06, 2019, Cologne, Germany
Sensors Expo & Conference, June 25 – 27, 2019, San Jose, CA, USA, **Booth 419**
LASER World of PHOTONICS, June 24 – 27, 2019, Munich, Germany
SPIE Optics+Photonics, August 13 – 15, 2019, San Diego, CA, USA, **Booth 425**

The Company

LASER COMPONENTS specializes in the development, manufacture, and sale of components and services in the laser and optoelectronics industry. At LASER COMPONENTS, we have been serving customers since 1982 with sales branches in five different countries. We have been producing in house since 1986 with production facilities in Germany, Canada, and the United States. In-house production makes up approximately half of our sales revenue. A family-run business, we have more than 220 employees worldwide.