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Presseinformation

LASER World of PHOTONICS 2017

Full process control thanks to imaging and sensors

Sensor and camera technologies are paving the way for the technologies of tomorrow: whether we are talking about quality-monitored Industry 4.0 manufacturing, precise medical diagnostics, automated driving or resource-efficient agriculture. Leading companies will be represented at the world's leading trade fair [LASER World of PHOTONICS](#), from June 26–29, 2017 in Munich, to showcase their often highly specialized products in all their diversity.

It is becoming increasingly common to have to monitor processes beyond the capabilities of the human eye. Sometimes they happen too quickly, sometimes they are on a nanometer scale, and sometimes defects occur only in [invisible wavelengths](#). That companies retain full control nonetheless is down to imaging and sensor solutions.

Custom-made camera systems for every application

[High-speed cameras](#) detect even the most minute defects in [fast-moving processes](#). Even in bread factories, cameras nowadays monitor the [quality and quantity of bakery products](#). Smart, pre-configured imaging solutions are also making implementation easier for users. Standards such as gigabit Ethernet (GigE vision) and USB 3.0 also ensure the rapid and reliable transmission of image data. With manufacturers relying on photonics here as well, because transmission is mainly by fiber-optic cable.

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In the estimation of the [FRAMOS Market Study2016](#), “image processing has long since outgrown niche status”. According to the authors of the annual trend report: “users and manufacturers see expansive fields in which the technology can be used, spanning the entire digital value creation chain in industry, science and security.”

Dynamically growing market – Key to Industry 4.0

According to [up-to-date market figures](#) from the VDMA Robotics and Automation Association, the increasing variety of applications is resulting in a highly dynamic industrial image processing market. Following a ten percent sales increase the year before, the Association is anticipating growth of eight percent in the European imaging market in 2016 as well. In Germany alone, sales have doubled to around EUR 2.2 billion within ten years. Image processing has developed into a key technology for automation and Industry 4.0.

Cancer diagnosis, defect-free components and autonomous cars

Technological progress is also proceeding apace: [Terahertz sensors](#) enable the non-destructive testing of plastic parts, ceramics or sandwich-structured composite materials. [Autonomous vehicles](#) feature laser-based LiDAR systems together with stereo and infrared cameras for seamlessly monitoring of their environment. Surgeons can use [fiber optic sensor systems](#) to differentiate in real time between tumorous and healthy tissue by means of spectroscopic analysis.

Imaging and sensor manufacturers and researchers are opening doors to a safer and more worthwhile future in almost all areas of life. At LASER World of PHOTONICS 2017 they will once again be demonstrating what they are capable of.

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LASER World of PHOTONICS

The LASER World of PHOTONICS is the world's leading platform of the laser and photonics industry. World of Photonics Congress, Europe's largest photonics congress, will be taking place in parallel with the trade fair. The program comprises five scientific conferences of leading global organizations. Supplementing this Messe München will be offering practical lectures on the applications of photonics ("Application Panels"). The combination of trade fair and congress brings together research and application, thereby promoting the use and continued development of optical technologies. In 2015 the trade fair set an exhibitor record with 1,227 exhibitors from 42 countries. A total of 31,279 trade visitors from 72 countries entered the Messe München site.

In 2015 the World of Photonics Congress registered 5,600 participants with an offering of more than 2,700 lectures and presentations including poster presentations.

The LASER World of PHOTONICS has been organized every two years by Messe München since 1973; the next event will take place in Munich from June 26-29, 2017, the next World of Photonics Congress will take place in parallel from June 25-29, 2017 in the ICM - International Congress Center Munich. www.world-of-photonics.com/index-2.html

The LASER World of PHOTONICS global network

LASER World of PHOTONICS has developed an international trade fair network. LASER World of PHOTONICS in Munich is the world's leading platform of the laser and photonics industry. World of Photonics Congress is Europe's largest photonics congress. LASER World of PHOTONICS CHINA and LASER World of PHOTONICS INDIA are leading regional trade fairs for laser and optical technologies and are staged annually in China (Shanghai) and India (alternating between Bangalore and New Delhi). With a total of 2,168 exhibitors and more than 83,000 visitors in Munich, China and India, Messe München is the world's leading trade fair organizer for lasers and photonics.

Messe München

Messe München is one of the world's leading trade-show companies. It organizes some 40 trade shows for capital and consumer goods and key high-tech industries in Munich and abroad. Each year more than 30,000 exhibitors and some two million visitors take part in events held at the Messe München trade-fair center, the ICM – Internationales Congress Center München and the MOC Veranstaltungszentrum München. In addition, Messe München organizes trade shows in China, India, Turkey, South Africa and Russia. Messe München has a global business presence with affiliates in Europe, Asia and Africa and more than 60 foreign representatives serving more than 100 countries.

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