



**OPTICAL  
IMAGING  
TECHNOLOGIES**

**SPIE PHOTONICS WEST**

**FEBRUARY 05-07, 2019  
SAN FRANCISCO, CA, USA  
BOOTH 5551**

**PRESS RELEASE**

Opto Engineering® **THE TELECENTRIC COMPANY**, has evolved through the years, releasing hundreds of new, diverse products and developing multiple areas of expertise.

Today we can say that we specialize in **OPTICAL IMAGING TECHNOLOGIES**.

Our focus is to build and provide every component needed to solve imaging applications: starting from our know-how in optics and competence in lighting, we can supply the best combination of tools available on the machine vision market.

For all of these reasons, Opto Engineering® has become the partner of choice in high-end optical applications for many of the major machine vision companies worldwide.

**Opto Engineering®, OPTICAL IMAGING TECHNOLOGIES.**



**OPTICS**



**LIGHTING**



**CAMERAS**



**SOFTWARE**



**ACCESSORIES**



**AI VISION UNITS**

**OPTICS**



**Adaptive lens for fast focusing, AO series**

Adjusting the focus of a camera on a robot arm or tracking items across the field of view are common examples where dynamic lens focusing is required.

For this purpose, Opto Engineering® has developed a small plug-and-play focusing lens with embedded optics and electronics. Adjusting focus on the fly has never been so easy.



VisionSystems  
**2018 Innovators Awards**  
**BRONZE**

**MZMT12X motorized macro zoom lenses**

MZMT12X high resolution motorized macro zoom lenses deliver superior optical performance in a compact and robust design, with or without coaxial illumination. These lenses integrate two bipolar stepper motors that control zooming and focusing with fine incremental movements and accurate repetitive positioning.

All of these features make these zoom lenses perfect for all those offline and inline applications requiring frequent changes of format with consistently high image quality.





## 71MP, 48MP, 29MP High Resolution Cameras for outstanding image quality • NEW

Whether the application requires to image large areas with high pixel count or to measure small parts with extreme accuracy, Opto Engineering's COE series cameras are up to the challenge.

Using the latest high resolution sensors, these ruggedized cameras deliver outstanding performance under harsh conditions. Additional features include pixel correction, flat-field correction, white balancing and more. Combined with our vast selection of precision optics for large format sensors, you have a winning solution!



DYNA  OPTICS

### Wavefront sensor - Dynamic Optics (our co-exhibitor)

Dynamic Optics wavefront sensor measures the wavefront of an incoming beam. The sensor can be used to provide accurate measurements of the quality of optical components such as mirrors and lenses.

According to the design of the sensor head it is possible to measure the wavefront with an accuracy of more than  $\lambda/100$  with a dynamic range of 20 diopters.

The Photon Loop software can measure the wavefront with a high speed and good resolution (160fps with  $43 \times 43$  spots or 600Hz with  $10 \times 10$  spots). Photon Loop can also be controlled with TCP/IP protocol.

Dynamic Optics wavefront sensor is the ideal solution for the measurements of the flatness of components, optical quality of lenses and mirror and atmospheric turbulence.



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