



**OPTICAL
IMAGING
TECHNOLOGIES**

ITE
DECEMBER 5-7, 2018
YOKOHAMA, JAPAN
Booth 118 • Hall D

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



Ultra compact large FOV telecentric lenses, TC CORE PLUS series • NEW

TC CORE PLUS series are large FOV telecentric lenses for area scan cameras, specifically designed for the latest generation 1/1.8" and 2/3" CMOS sensors. Their opto-mechanical design is ideal to measure large objects in a reduced space. In fact, the length and working distance of a telecentric lens strongly impact the size of a vision

system. This is especially critical when a large FOV telecentric lens is used with a telecentric illuminator, as the overall system dimensions are doubled. For this reason, the working distance of TC CORE PLUS lenses has been optimized to make a measurement system as compact as possible.



Adaptive lens for fast focusing, AO series • NEW

Dynamic industrial inspections need advanced technology to maintain focus in challenging applications. Adjusting the focus of a camera on a robot arm, or tracking items across the field of view, are common examples where active focusing is required.

For this reason, 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.



High quality cost ratio fixed focal lenses, EN2MP & EN5MP series • NEW

The new series of factory automation use fixed focal lenses **EN2MP** & **EN5MP** are designed for a wide range of applications. With their stable quality, your system would be consistent and robust. The high quality to price ratio of EN2MP & EN5MP series, allows simple vision tasks to be achieved easily

and efficiently. With many years of experience in the machine vision industry, Opto Engineering® can provide bundle solutions including a suitable lens, camera and illuminator that are optimized for your specific application requirements.





360° view optics - simplicity and beauty vs multi-camera systems

One of the most recurring demands of the machine vision market is to be able to view every surface of an object with as few cameras as possible.

This request is becoming more and more common in a variety of market areas, like the beverage, pharmaceutical and automotive industries.

Opto Engineering® designed these incredible optical solutions: just one camera shot is enough to capture

the top and side views of an object or the bottom and inside views of a holed object. Most of these special optics are unique and patented by Opto Engineering®: their names are registered trademarks and you will not find similar products on the market featuring the same build quality and the same optical performances.



ACCESSORIES



8 and 4 channels LED strobe controllers with max pulsed current of 20A • NEW

Opto Engineering® range of LED strobe controllers now includes **LTDVE8CH-20** and **LTDVE4CH-20** with Ethernet and RS485 interfaces featuring respectively eight and four output channels driving lights with currents up to 20A (pulsed) and 2A (continuous).

These controllers accurately set current intensity, pulse duration and delay of LED illuminators, offer filtering options for trigger signals and easily synchronize the strobe pulses with the camera exposure to meet today's machine vision high speed demands.



SOFTWARE



Creating your own Vision Application has never been easier: FabImage Studio and Libraries • NEW

Together with optics, lighting, and cameras, software is a critical step in developing a vision system. Software is essential to correct, process, and analyze images, ensuring that the output of a vision system satisfies the inspection requirements. With a low-level programming approach, e.g. C++ combined with machine vision dedicated libraries, you can have total freedom. But, it requires a highly skilled and

dedicated resource. That's why Opto Engineering® FABIMAGE STUDIO is the perfect solution for software development! FABIMAGE STUDIO is a software tool for machine vision engineers that will assist you in creating your application. It follows a natural logic flow - from input to output - combined with one of the most powerful libraries in the market, with 1000+ functions.



CONTACT US

Opto Engineering Europe Headquarters

Circonvallazione Sud, 15
46100 Mantova, IT
phone: +39 0376 699111
eu@opto-e.com

Opto Engineering Taiwan

Opto Engineering Southeast Asia LTD.
4F., No.153, Sec. 2, Shuangshi Rd.,
Banqiao Dist., New Taipei City 22043, Taiwan (R.O.C)
phone: +886 282522188 • tw@opto-e.com

CONTACT FOR MORE INFO:

Elisa Guernieri
Head of Communication
press@opto-e.com

