



ADAPTIVE LENS FOR FAST FOCUSING

**AO series honored
by Vision Systems Design 2018
Innovators Awards Program**



Boston, MA • April 11, 2018 • On April 10, **Opto Engineering® • OPTICAL IMAGING TECHNOLOGIES** was presented with a bronze-level award in the Lighting, Lenses & Optics category at the Fourth Annual Vision Systems Design Innovators Awards presentation, held during The Vision Show in Boston, MA. Their **AO series • Adaptive lens for fast focusing** was recognized by a panel of esteemed experts from system integrator and end-user companies.

ADAPTIVE LENS FOR FAST FOCUSING, AO SERIES

Dynamic industrial inspections need advanced technology to keep perfect 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 of where active focusing is required.

Logistics and in-line inspection need faster and faster inspection systems to achieve new productivity requirements. Fast beverage lines need to ched contaminants on different parts of bottles and cans.

A typical approach in these cases is closing the iris to obtain a wider depth of focus but

this conflict with the need of fast and light-demanding applications.

An other approach can be the mechanical motorisation of traditional fixed focal lenses but the movement is slow and the development is always time consuming and expensive.

For these reason Opto Engineering® has developed its own focusing lens which allows customer to resolve their problems of fast and precise focusing and save time and implementation costs.

The integration of the focusing lens is simple and plug-and-play since the module needs just to be placed in front of a standard fixel

focal CCTV lens. The embedded electronic drive driver has been specifically developed to accurately control the piezoelectric elements. Connected the module to a power supply and to an ethernet port to start using the adaptive lens.

A demo user interface with basic control functions is available via a web browser interface. The lens can also be fully controlled with a dedicated .dll library. The library includes an autofocus algorithm and a calibration tool to help users integrate the adaptive module into their product or application.

“This prestigious program allows Vision Systems Design to celebrate and recognize the most innovative products and services in the vision and image processing industry. Our 2018 Honorees are an outstanding example of companies who are making an impact in the industry.”

Alan Bergstein, Vision Systems Design Group Publisher

The Innovators Awards are judged based on the following criteria:

- Originality
- Innovation
- Impact on Designers, Systems Integrators, End Users
- Fulfilling a need in the market that hasn't been addressed
- Leveraging a novel technology

The 2018 Visions Systems Design Innovators Awards Honorees are featured in the June Issue of Vision Systems Design magazine as well as on <http://www.vision-systems.com>. Companies were recognized in the following categories:

- Vision systems
- Cameras - visible
- Cameras - non-visible
- Cameras - 3D
- Cameras - Specialty (High-speed, scientific)
- Image sensors
- Lighting, lenses, and optics
- Connectivity: Cables, connectors, extenders, interfaces, etc.
- Software
- Frame grabbers and boards
- Embedded vision: Cameras, computers, boards, processors, development kit, components
- R&D / start-up category

About Vision Systems Design

Published since 1996, Vision Systems Design is a global resource for engineers, engineering managers and systems integrators that provides comprehensive global coverage of vision systems technologies, applications, and markets.

Vision Systems Design's magazine, website (www.vision-systems.com), email newsletters and webcasts report on and analyze the latest

technology and business developments and trends in the worldwide machine vision and image processing industry.

About The Vision Systems Design 2018 Innovators Awards program

The Vision Systems Design 2018 Innovators Awards program reviewed and recognized the most innovative products and services in the vision and image processing industry.

Honorees were announced at Automate 2018 held in Boston, MA, USA. Criteria used in the Innovators Awards ranking included: originality, innovation; impact on designers, systems integrators and end-users; fulfilling a need in the market that hasn't been addressed, leveraging a novel technology, and increasing productivity.