

# Sneak Preview

SPIE Defense, Security & Sensing, Baltimore, Md.  
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**PHOTONICS** MEDIA

THE PULSE OF THE INDUSTRY



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## IR Engine w/2-28° Continuous Zoom

**Miniature thermal imaging engine** based on HOT MCT MW detector. Includes a compact 19-275 mm continuous zoom lens and control/cooler electronics. Produces analog and digital signals. Lightweight and low power design makes these engines ideal for demanding space/weight/power constraint applications.

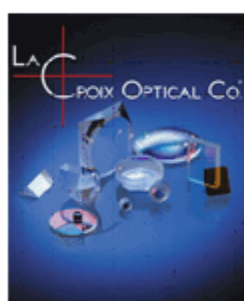
**Sofradir-EC Inc.**

See us at booth 809

[www.ircores.com](http://www.ircores.com)

## High-Volume Custom Optics Manufacturer

Since 1947, **LaCroix Optical Co.** has positioned itself as a premier domestic volume and prototype manufacturer of custom precision optics. Products include: Lenses, Achromats, Aspheres, Windows, Mirrors, Prisms and Wedges. We are ISO 9001:2008 certified and ITAR registered and compliant.



**LaCroix Optical Co.**

See us at booth 1120

[www.lacroixoptical.com](http://www.lacroixoptical.com)



## Xenics' SWIR Night Vision

The Rufus-640 SWIR camera tackles the challenge to operate during day and night and in varying conditions. Together with on-board image processing, such as auto exposure and auto gain, Rufus-640 reaches best contrast and high image quality.

**Xenics**

See us at booth 1025

[www.xenics.com](http://www.xenics.com)

## Color NIR Extended Sensing Cameras

**e2v's CIRES™ CMOS cameras** deliver high performance color, low-light imaging with extended, near-infrared sensitivity for situational awareness, surveillance, and security applications. Enabled by e2v's sensor technology, CIRES™ provides SXGA or HDTV video resolution to 60 fps in an ultra-compact design.



**e2v**

See us at booth 213

[www.e2v-us.com](http://www.e2v-us.com)



## Custom and Specialty Electroforms

Servometer® **electroforms** are very precise thin-walled, lightweight metal components that can be made as small as 0.020" (0.5 mm) in diameter, with walls as thin as 0.0005". Materials include nickel, copper, gold, silver, or a combination thereof.

**Servometer**

See us at booth 769

[www.servometer.com](http://www.servometer.com)

## Raptor Photonics – SWIR & VIS-SWIR

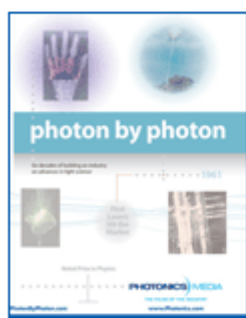
The **OWL SW1.7 CL-640** is a rugged, high sensitivity (400nm to 1700nm) digital VIS-SWIR camera that uses a 640 x 512 InGaAs sensor from SCD. 15µm x 15µm pixel pitch ensures the highest resolution. Enables integration into UAV, handheld or any Electro-Optic system.



**Raptor Photonics Ltd.**

See us at booth 1229

[www.raptorphotonics.com](http://www.raptorphotonics.com)



## Six Decades of Building an Industry

To celebrate our 60<sup>th</sup> anniversary, Photonics Media presents **photon by photon**, an interactive timeline that looks at some key highlights in the development of photonics over the past six decades. Stop by our booth to pick up a copy of the printed version!

**Photonics Media**

See us at booth 1017

[www.PhotonByPhoton.com](http://www.PhotonByPhoton.com)

## SPIE Defense, Security & Sensing 2014

SPIE DSS 2014 brings together some of the industry's most important scientific conferences and exhibitions on optics, IR imaging, lasers and sensing for defense, security, industry, healthcare and the environment.



Featuring two technical symposia and a 450-company exhibition, DSS offers the opportunity for efficient information exchange, business development, vendor and project networking, and professional development.

The Defense and Security Symposium focuses on the latest research in aviation and aerospace, laser technologies, cyber sensing and security, command/control/communications/intelligence, system/network integrator/VAR, IR imaging, communications and networking, and more.

The Sensing Technology and Applications Symposium will cover topics such as hyperspectral imaging, IR sensors and systems, imagery and pattern analysis, next-generation sensors and systems, fiber optic sensors, wireless sensing, terahertz devices and systems, and 3-D imaging and visualization.

A number of presentations and speakers are scheduled at the event, including Dr. Troy E. Meink (of the Air Force for Space and Executive Agent for Space Staff) who will discuss challenges in today's national security space capabilities. Dr. Ludger Overmeyer (head of the Institute of Transport and Automation Technology at Leibniz University) will discuss Planar Optronic Systems, involving the development of large-scale, polymer-based sensor foils with purely optical measurement principles.

Also slated to present will be William Ruh, vice president and corporate officer of GE Global Software, covering the emerging industrial Internet.

The exhibition portion of DSS will feature the latest in robotics and unmanned systems, chemical and biological sensing, IR detectors and systems, cameras and CCD components, optical components, high-speed imaging and sensing, and more.

SPIE DSS attracts leading scientists, researchers and engineers from the laser, sensing, optics and imaging industry, military, government agencies, and academia. More than 2,300 presenters are among the thousands of attendees.

Among courses and workshops to be offered are Infrared Optics Design Principles, IR Atmospheric Propagation for Sensor Systems, and Electro-Optical Imaging System Performance.

For more information, visit:  
<http://spie.org/x6765.xml>

### Stop by our booth

Visit Photonics Media at booth 1017 and pick up the latest issue of *Photonics Spectra*, *BioPhotonics*, *EuroPhotonics* or *Industrial Photonics* magazines, and enter our daily drawing for a \$100 Amazon gift card! And as always, you can visit us online at [www.photonics.com](http://www.photonics.com)

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