

SPIE Photonics West
The premier photonics and laser event
San Francisco, United States
7 – 8 February 2015

FOR IMMEDIATE RELEASE

Versatile SWIR T2SL Camera up to 2.35 μm

XEVA-2.35-320 TE4 T2SL shortwave-infrared camera from Xenics delivers superior performance for the most advanced R&D application

*Leuven, Belgium, 20 January, 2015 – The XEVA-2.35-320 TE4 has been announced today as the latest shortwave-infrared image camera of Leuven-based Xenics, Europe's leading developer and manufacturer of advanced infrared detectors, cameras and customized imaging solutions from the LWIR to the visible realm. The thermo-electrically cooled infrared camera features T2SL infrared detection technology and delivers superb performance in the 1.0 to 2.35 μm wavelength region for hyperspectral imaging or laser beam analysis. **At Photonics West, Xenics will exhibit in Booth# 834***

Benefits of extended SWIR

SWIR imaging in the shortwave-infrared spectrum (SWIR) at wavelengths up to 2.35 μm is of special interest for hyperspectral imaging or laser beam analysis. Hyperspectral imaging in the SWIR range opens a wealth of new sensing applications for measuring environmental parameters, in geology for mineral detection, in agriculture for monitoring the maturity of crops and the type of vegetation that is present or in any application where disaster monitoring is needed. This is as relevant for airborne as it is in any R&D lab environment. When it comes to laser beam profiling, good measurement linearity, resolution and stability in the range of 1.0 to 2.35 μm are indispensable, all supported by the Xeva-2.35-320 TE4 infrared camera.

Superior performance for reliable research

The new XEVA-2.35-320 TE4 digital camera delivers 14-bit images at high frame rates of 100 Hz, 350 Hz or higher in windowing mode. It consists of a 320 x 256 T2SL detector array with pixel pitch of 30 μm at a pixel operability ratio of > 99%.

The detector head is cooled with a four-stage thermo-electrical cooling element, operating down to 220K, and is integrated into one single compact housing with all control and communication electronics.

Flexibility is always ensured by Xenics' SWIR imaging products. Each camera is delivered with a graphical user interface Xeneth, offering direct access to various camera settings including exposure time and operating temperature. The camera allows for exposure times from 1 μ s to more than 100 ms in high dynamic range mode (with TE4 cooling). Software tools include 2-point uniformity correction and bad pixel replacement. The camera head interfaces to a PC via CameraLink or USB2.0.

Note to the editor

About Xenics

Xenics is a pioneer of infrared technology with a proven track record of nearly fifteen years. Xenics designs and markets infrared imagers, cores and cameras of best-in-class image quality to support innovative R&D, industrial automation, machine vision, process control and high-end security applications. Xenics offers a complete portfolio of line-scan and 2-D area-scan products for the VisNIR, SWIR, MWIR and LWIR ranges. A vertically integrated manufacturer with advanced production facilities and in-house know-how on detector, systems and software development, Xenics delivers state-of-the-art solutions and optimized custom designs. As a European vendor with a worldwide sales and service network, Xenics supports its customers with simplified export procedures. More at:

www.Xenics.com.

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