

## VISION 2007

### **Xenics Has New Broadband Versions of Its InSb-based XMID Cameras**

*November, 6, 2007 --- Xenics has extended the wavelength areas of its proven high-detectivity and high-uniformity InSb detector cameras for the midwave infrared (MWIR) 3 to 5  $\mu\text{m}$  area. New broadband versions now cover the extended area 1 to 5  $\mu\text{m}$ . These crucial extensions are realized for both, the XMID-FPA-5.0-320 and -640. As before, both models continue to excel by their high flexibility in terms of frame rates and temperature ranges. The Xenics XMID Series supports numerous applications in all-weather and night vision applications such as in advanced landing aids for aircraft.*

With its state-of-the-art 2D InSb detector array and Stirling cooler, the affordable Xenics XMID Series offer a standard resolution of 320 x 256 pixels at a pixel pitch of 30  $\mu\text{m}$ , or high resolution of 640 x 512 at a pixel pitch of 20  $\mu\text{m}$ . The pixel operability level is better than 99.5%. An excellent NETD figure is listed at typical 25mK. It now covers the extended wavelength area of 1 to 5  $\mu\text{m}$ . The Stirling cooler allows for a detector operating temperature of approximately 80K. The cameras deliver 14-bit total dynamic range images. Frame rates are 60, 100 or 350 Hz for the XMID-320 version, whereas the XMID-640 is available as 25 and 90 Hz.

Xenics' new broadband XMID Series is laid out for highly stable, PC-driven thermal imaging applications which request stable and predictable performance, besides aircraft landing systems, this applies especially in R&D situations that demand reliable imaging performance below 3  $\mu\text{m}$ . Camera control is done via USB 2.0, image acquisition goes via USB 2.0 or CameraLink. The fully flexible exposure times of these snapshot cameras

begin at 1 microsecond and go up to several milliseconds.

Xenics' X-Control software is used to operate the cameras, setting camera control parameters as well as image acquisition. Moreover, as with all other Xenics cameras, a software development kit is available for programming in LabView, C# and Visual Basic.

The optical interface for these cameras is the bayonet mount. For the broadband XMID cameras, a variety of lenses with 25, 50 or 100 mm focal length is available. These lenses transmit from the laser line at 1.5  $\mu\text{m}$  through the mid infrared (1.5 to 5  $\mu\text{m}$ ).

Due to the non-condensing housing construction, ambient humidity conditions are not a critical parameter. The dimensions of the XMID camera housing are 115 x 145 x 225 mm<sup>3</sup>, weight including the power supply is at approximately 3.3 kg. XMID operates on a regular 12V/5A supply (XMID-320) or 28V/3.5A (XMID-640).

### **About Xenics**

Xenics is the leading developer of innovative infrared detection solutions for a wide range of applications. Xenics designs, manufactures and sells infrared detectors and cameras, both line-scan and 2D, covering the infrared wavelength ranges from 1 to 14 micrometers. In addition, Xenics delivers custom products according to the agreed specification and planning.

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