

Imagine the invisible



**Ready-to-integrate
OEM modules**

“A mobile thermal imaging system in less than 6 months, thanks to ready-to-integrate OEM modules”

Portable border security

Sensitive areas such as borders require more than ever heightened perimeter security. They are increasingly subject of illegal immigration, unwanted intrusion and other organised crime. A portable infrared imaging system, based on the XenicsCores, is an efficient solution for rapid surveillance operation under the most unfavourable environmental conditions.

Xenics can make the difference

The XenicsCores is a series of durable infrared OEM modules that are capable to offer increased situational awareness with active and passive day/night vision. Our advanced short-wave infrared (SWIR) modules can see through fog, haze, smoke and identify humans or objects during night and day, whereas thermal imaging modules can detect at very long distance and at pitch dark.

To shorten and simplify the demanding design of surveillance systems, the XenicsCores are built on a modular platform. System designers can pick and choose from a broad variety of compatible specifications and functionalities according to their application.

Portable thermal imagers for security & safety market

Audio-Video Trend (AVT) is a company that develops solutions and products on user request.

One example has been the development of the DRAGON ATS, a stationary and mobile night vision system for border control, which was initiated by the Croatian Ministry of Internal Affairs. Since a part of Croatia is situated at the external frontier of the European Union, they have greater responsibility for more thorough border control.

“As an agile and innovative company, AVT looked for a partner with whom we could realize the project. Xenics agreed to be our partner in this project. Besides high quality detectors, Xenics also has extremely fast technical support. The answers to our questions sometimes arrived within an hour, which helped us with the development of this project. It was a challenge to produce a mobile system for border control in less than 6 months”, said CEO of AVT Ivica Mijić, “but with Xenics as a partner we could apply for this project.”



Figure 1: Dragon HR



Figure 2: Remote system

FLEXIBLE solutions
Powered from EUROPE
Advanced IN-HOUSE design
Dedicated SERVICE



Advanced OEM module portfolio	SWIR	MWIR	LWIR
Array type	Uncooled InGaAs	InSb, MCT, T2SL	Uncooled a-Si
Spectral band	0.9 μm to 1.7 μm optional VisNIR	Variations from 1 μm up to 5 μm	8 μm to 14 μm
# Pixels	640 x 512	640 x 512	640 x 480
Pixel pitch	20 μm	15 μm	17 μm
Frame rate	Up to 100 Hz full frame rate	120 Hz up to 300 Hz full frame rate	Up to 50 Hz full frame rate
Lenses	Broad range of lenses available		
Camera type	XSW-640	XCO-640	XTM-640

🔗 Xenics' reference case Audio-Video Trend

Xenics has proven once more that the XenicsCores OEM modules can be readily integrated into advanced imaging systems. In less than 6 months the company Audio-Video Trend (AVT) has developed the Dragon ATS, a stationary and mobile system for border control. The system allows for real-time monitoring for short-, medium- and long-range surveillance.

The DRAGON ATS system consists of a mobile thermal camera, a remote control system and a pan-tilt head tripod. When combined together, the user has the ability to set up the equipment in a blink of an eye in various environments. The control case offers a monitor, DVR, video and data link – wired or wireless connection with optional 3G. The handheld camera has a built-in thermal detector, optics, LRF, GPS, DCM and control logic board. “Among the most important features of the camera head is the image quality of the built-in XTM module. With this image quality we can proudly compare us with competitors in the world market”, says CEO of AVT Ivica Mijić. www.avt.hr

With XenicsCores, system integrators can develop systems much faster and provide innovative solutions for better public safety.

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