Xenics
Infrared Solutions

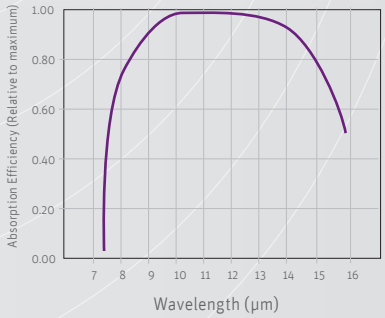
Imagine the invisible

Modules & Components

XTM-640-GigE

High resolution uncooled thermal OEM module

Ready-to-integrate thermal OEM module consuming ultra-low-power



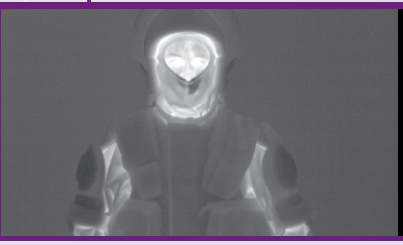
Xenics' XTM-640-GigE is an extremely compact and versatile thermal camera module with unique image quality and stability for a broad range of OEM applications. These applications include security, night vision, firefighting, airborne and land-based reconnaissance and surveillance.

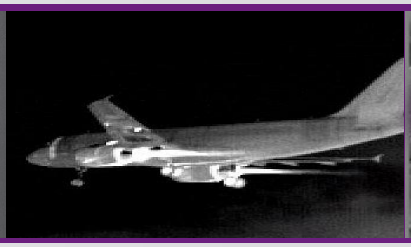
We guarantee you a high operating temperature range and unparalleled uniform and crisp thermal images thanks to on-board image processing and full shutter control.

The advantages of a high quality infrared module are now combined with the power of a GigE interface and Power over Ethernet (PoE).

The 640 x 480 image resolution with small pixel pitch of 17 µm allows for longer Detection, Recognition and Identification (DRI) values in critical security applications.

Designed for use in


Thermal security


Vision enhancement


Police surveillance


Border security

Key features

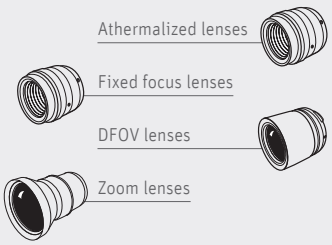
- Low power
- High resolution
- Easy connectivity
- Small size, 17 µm pixel pitch
- 50 Hz frame rate worldwide

OEM applications

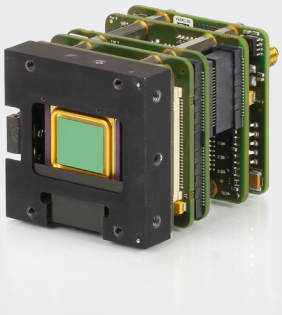
- UAV / UGV
- Gimbal
- Night vision
- Thermal sights
- Border security
- Fire fighting
- Driver assistance
- Police surveillance
- Search & Rescue (SAR)
- Electro optical payloads

Ready-to-integrate

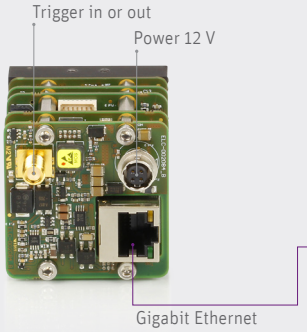
Lens & filter options



> Discover our Lens Selector Guide
www.xenics.com/LSG



Inputs



Outputs

Software

- Xeneth Advanced
- Xeneth Radiometric (optional)
- Xeneth SDK (optional)

Specifications

Module specifications	XTM-640-GigE
Lens	
Optical interface	Fixation holes for multiple lens mount
Imaging performance	
Frame rate (full frame)	50 Hz
Window of Interest	Minimum size 160 x 120
Integration time	1 µs - 80 µs
Shutter	Full control by GigE Vision
Temperature stabilization	No ThermoElectric Cooling required (TEC-less)
Integration type	Rolling shutter
On-board image processing	NUC (Non-Uniformity Correction) Auto-offset & Auto-gain
A to D conversion resolution	16 bit
Interfaces	
Digital output	GigE Vision
Analog output	-
Module control	GigE Vision: GigE standard
Trigger	In or out (via SMA)
Power requirements	
Power consumption	< 4.5 W
Power supply	12 V or Power over Ethernet (PoE)
Physical characteristics	
Shock	40 g, 11 ms according to MIL-STD810G
Vibration	5 g (20 Hz to 2000 Hz) according to MIL-STD883J
Ambient operating temperature	- 40 °C to 60 °C
Storage temperature	- 45 °C to 85 °C
Dimensions (W x H x L mm³)	45 x 45 x 62.2
Weight module	125 g

Array specifications	XTM-640-GigE
Array type	Uncooled microbolometer (a-Si)
Spectral band	8 to 14 µm
# pixels	640 x 480
Pixel pitch	17 µm
NETD	55 mK @ 30°C with F/1 lens
Array cooling	Uncooled
Pixel operability	> 99 %

Product selector guide

Part number	NETD (mK)	Frame rate (Hz)	Interface
XEN-000300	55	50	GigE Vision
XEN-000447		9	

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Xenics
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ISO 9001:2015 certified