

Imagine the invisible

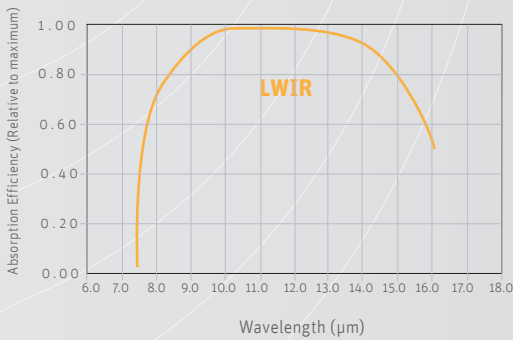
Scientific

Gobi-640-GigE

High resolution uncooled thermal camera



Fast transfer of high resolution images for accurate thermal analysis

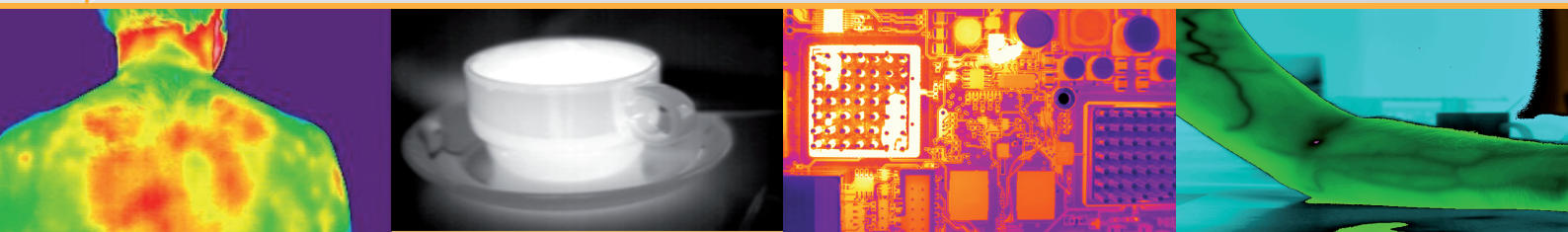


You will enter a new era of easy, fast, efficient and comfortable connectivity with the Gobi-640-GigE. The advantages of a high quality infrared camera are now combined with the power of a GigE interface and Power over Ethernet (PoE). Excellent image quality, high thermal resolution (0.05°C) and accurate thermal analysis capabilities guarantee the most versatile R&D tool on the market.

This combination makes it ideal for instant, accurate and cost-effective evaluation of your thermal imaging. Using the Gobi-640-GigE will bring your analysis to the next level of accuracy!

Need for customizing? A variety of industry standard accessories is available.

Designed for use in



Medical: infection detection

Stress analysis

PCB inspection

Thermal imaging: Veins

Applications

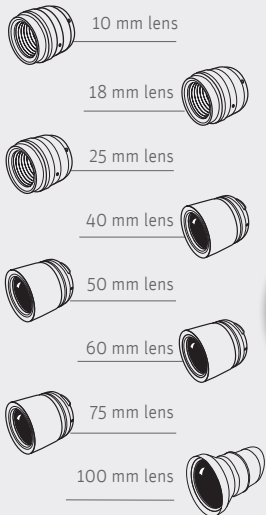
- Hot spot detection
- Bio medical imaging
- NDT: Lock-in thermography
- Accurate temperature measurement
- Quality control and quality assurance
- Real-time process control and monitoring

Benefits & Features

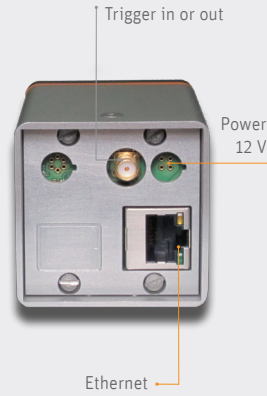
- High sensitivity
- High image resolution
- On-board thermography
- Multiple lenses available
- Power over Ethernet (PoE)
- GigE Vision for ease of integration
- Small GigE interface resulting in a ultra-compact scientific LWIR camera

Broad range of accessories available to simplify your research

▶ Lens & filter options



▶ Inputs



▶ Software



- Xeneth radiometric
- Xeneth advanced (optional)
- Xeneth SDK

▶ Outputs

Specifications

Camera Specifications	Gobi-640-GigE
Lens (included)	
Focal length	18 mm f/1, HFOV 33°, standard manual focus
Optical interface	Lens mount supporting multiple lenses
Imaging performance	
Frame rate	Max 50 Hz
Window of interest	Minimum size 160 x 120
Shutter	Yes
Temperature stabilization	No thermoelectric cooling required (TEC-less)
Integration type	Rolling shutter
A to D conversion resolution	16 bit
Interfaces	
Camera control	GigE Vision
Image acquisition	GigE Vision
Trigger	In or out (configurable)
Operating mode	Stand-alone or PC-controlled
Power requirements	
Power consumption	4.1 W (5 W for Power over Ethernet)
Power supply	12 V (Power over Ethernet V)
Physical characteristics	
Shock	70 G, 2 ms halfsine profile (without shutter)
Vibration	4.5 G, (5 Hz to 500 Hz)
Ambient operating temperature	- 40°C to 70°C
Dimensions	49 W x 49 H x 70 L mm ³ (without lens)
Weight camera head	220 g (Lens not included)
Thermography calibration	
Standard	-20°C to 120°C
Option 1	50°C to 400°C
Option 2	300°C to 1200°C
Option 3	- to 2000°C

Array Specifications	Gobi-640-GigE
Array Type	Uncooled microbolometer (a-Si)
Spectral band	8 μm to 14 μm
# Pixels	640 x 480
Pixel Pitch	17 μm
NETD	≈ 50 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-000065	50	50	GigE Vision