

Imagine the invisible

Scientific



Gobi-640

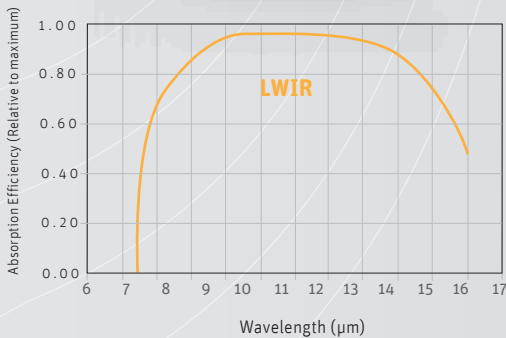
High resolution
uncooled thermal camera

Smart thermal Gobi-640 manages your processes

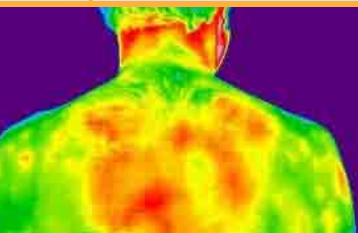
With its excellent image quality, allowing for detection of temperature differences as small as 0.05°C, the Gobi-640 is designed for use by researchers and engineers. Its easy plug-and-play infrared camera system and on-board image processing allows for real-time image correction and recognition.

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

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



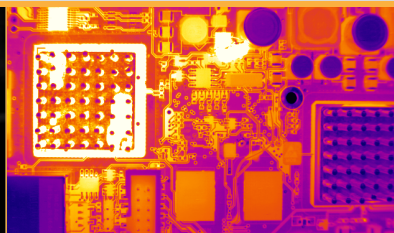
Designed for use in



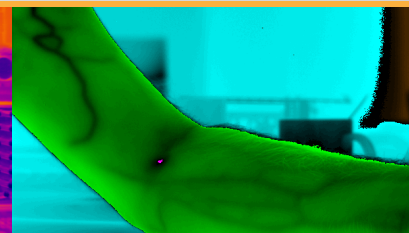
Medical: infection



Stress analysis



PCB inspection



Thermal imaging: veins

Applications

- Medical imaging
- Semiconductor inspection
- NDT: Lock-in thermography
- Accurate temperature measurement
- Quality control and quality assurance
- Real-time process control and monitoring

Benefits & Features

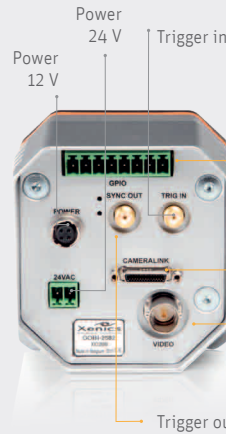
- High sensitivity
- High image resolution
- Complete infrared system
- High speed in smaller window
- Connects directly to a video monitor
- Interfaces to various standard frame grabbers

Broad range of accessories available to simplify your inspection

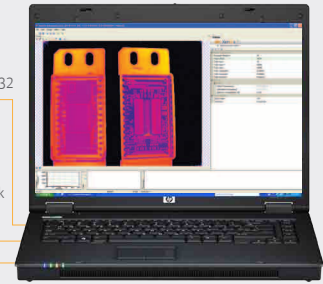
▶ Lens & filter options



▶ Inputs



▶ Software



- Xeneth radiometric
- Xeneth SDK (optional)
- Xeneth Advanced (optional)
- Thermography studio (optional)

▶ Outputs

Specifications

Camera Specifications	9 Hz	50 Hz
Lens (included)		
Focal length	18 mm f/1, HFOV 47.9°, standard manual focus	
Optical interface	Adaptation rings for various lenses	
Imaging performance		
Frame rate:	9 Hz	50 Hz
Window of interest	Minimum size 160 x 120	
Max. frame rate in smallest window	9 Hz	630 Hz
Temperature stabilization	No thermoelectric cooling required (TEC-less)	
Integration type	Rolling Shutter	
A to D conversion resolution	16 bit	
Interfaces		
Camera control	CameraLink: XSP (Xenics Serial Protocol) RS232: XSP (Xenics Serial Protocol)	
Digital output	CameraLink: 16 bit base	
Analog out	PAL or NTSC	
Trigger	Trigger in and out; LVCMOS	
Operating mode	Stand-alone or PC-controlled	
Power requirements		
Power consumption	3.3 W at room temperature	
Power supply	12 V and 24 V	
Physical characteristics		
Shock	70 G, 2 ms halfsine profile (without shutter)	
Vibration	4.5 G, (5Hz to 500 Hz)	
Ambient operating temperature	0°C to 50°C	
Dimensions	74 W x 70 H x 65 L mm ³ (without lens)	
Weight camera head	< 500 g (Lens not included)	

Array Specifications	9 Hz	50 Hz
Array type	Uncooled microbolometer (a-Si)	
Spectral band	8 μm to 14 μm	
# Pixels	640 x 480	
Pixel pitch	25 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)	Analog out
XEN-000030	50	9	PAL
XEN-000031			NTSC
XEN-000043	50	50	PAL
XEN-000029			NTSC



GLOBAL SECURITY SYSTEMS CO W.L.L
www.globalsecuritysys.com