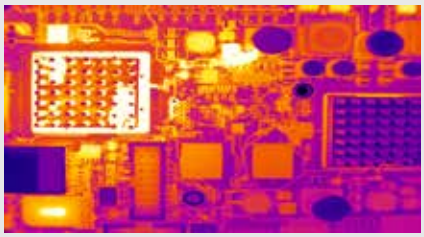
Xenics
Infrared Solutions

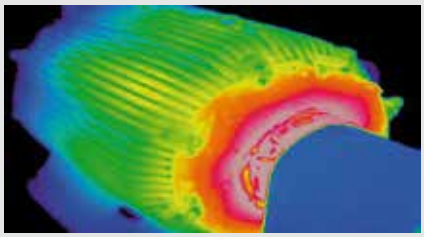
Gobi+ series

Gobi+ series

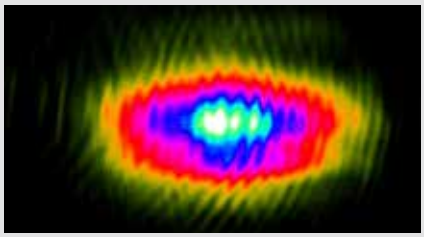
High performance thermal imaging



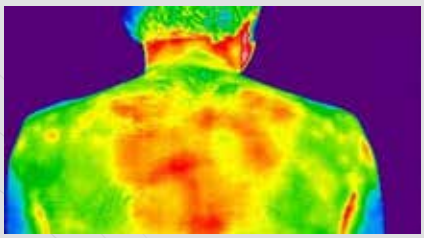
PCB inspection



Monitoring of critical installations



Laser beam analysis



Medical: infection detection

Improving on the performance capabilities yet retaining versatility and compact form factor of the Gobi, the Gobi+ thermal camera offers enhanced image quality and resolution.

Increased capabilities

Thermal imaging reaches new heights through the Gobi+ (plus) series.

Like the Gobi 640 cameras, the Gobi+ provides high resolution imaging at full 640 x 480. In order to fulfil ever higher requirements of demanding applications, the Gobi+ camera series comes with increased performance capabilities.

The Gobi+ brings enhanced image quality thanks to improved pixel operability as well as low detector noise of 50 mK NETD. High speed imaging is also provided with frame rates up to 60 Hz that can be further increased in windowing mode.

Integration of the Gobi+ is simple and hassle free, with a broad selection of industry standard accessories and extensive software customization tools.

Simply put, the Gobi+ improves upon the performance capabilities of the Gobi while keeping the best aspects intact.

Benefits & Features

Compact form factor

Small size and low weight, the Gobi+ is well suited for integration in control or vehicular systems

Higher performance

640 x 480 pixel resolution is provided with increased frame rates of 60 Hz, as well as low 50 mK NETD detector noise.

Industry standard compatibility

Our cameras are GigE Vision compliant. The CameraLink cameras and Xeneth software are fully compatible with National Instruments and Euresys frame grabbers

Windowing mode

Imaging in a reduced window of interest for increased frame rates

Advantages

- Increased performance
- High resolution
- Easy connectivity
- Small size, light-weight

Designed for use in

- Bio medical imaging
- Situational awareness
- Hot spot detection
- Real-time process control and monitoring

Connectivity & Interface

Software

- Xeneth
- Xeneth SDK (optional)
- Xeneth LabVIEW SDK (optional)

Camera Specifications	Gobi+ 640 GigE	Gobi+ 640 CL
Mechanical specifications		
Dimensions - excluding lens (width x height x length) [mm]	49 x 49 x 79	49 x 49 x 62
Weight - excluding lens [gr]	263	208
Optical interface	M42 or M34 x 0.75	
Connector GigE	RJ-45	NA
Connector CameraLink	NA	Standard SDR
Connector power	Hirose HR10-7R-SA(73)	
Connector trigger	SMA	
Environmental & power specifications		
Ambient operating temperature range [°C]	From -40 to +60	
Storage temperature [°C]	From -45 to +85	
Power consumption [W]	4.5	2
Power supply voltage	DC 12 V	
Shock	40 g, 11 ms, MIL-STD810G / MIL-STD883J	
Vibration	5 g (20 to 2000 Hz), MIL-STD810G / MIL-STD883J	
IP rating	IP40	
Electro-optical specifications		
Image format [pixels]	640x480	
Pixel pitch [µm]	17	
Detector type	a-Si microbolometer	
Integration type	Rolling shutter	
Active area and diagonal [mm]	10.88 x 8.16 (13.6 diagonal)	
Detector NETD (Noise Equivalent Temperature Difference) [mK]	<50 (at 30 Hz, 300 K, F/1)	
Spectral range [µm]	8 - 14	
Pixel operability	> 99.5%	
Max frame rate (full frame) [Hz]	60 (or 9)	60
Integration time range [µs]	1-80	
Region of interest	Yes	
Min region size [pixels]	160x120	
Analog-to-Digital (ADC) [bits]	16	
Command and control	GigE Vision	CameraLink
Digital output format	16 bit GigE Vision	16 bit base CameraLink
Trigger	in or out via SMA (configurable) (not for 9Hz)	in or out via SMA or CL-CC1 (configurable)

Broad selection of lenses available

We offer various long-wave infrared lenses that are compatible with the Gobi+ series.

Contact us or visit the product page for more info.

Product selector guide

Product	Part number	Detector NETD (mK)	Max frame rate (full frame)	Interface
Gobi+ 640 CL	XEN-000645	< 50 (at 30Hz, 300K, F/1)	60 Hz	CameraLink
Gobi+ 640 GigE	XEN-000646		60 Hz	GigE Vision
Gobi+ 640 GigE 9Hz	XEN-000647		9 Hz	

More information

Further information available at our product page:

- Access to technical documents, white papers;
- Information on lens compatibility;
- Contact form for pricing and general inquiries

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Xenics
Infrared Solutions

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