

Imagine the invisible

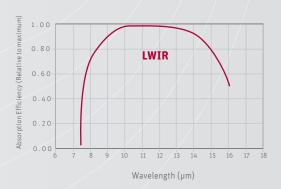
COD!

Industrial

Gobi-640-CL

High resolution uncooled thermal CameraLink camera

Smallest thermal CameraLink camera and easy-to-integrate



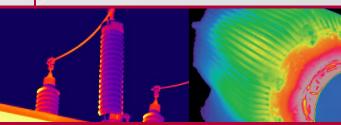
The Gobi-640-CL guarantees to be the most versatile industrial camera on the market with excellent image quality, high thermal resolution (0.05°C) and accurate thermal analysis capabilities. The advantages of a high quality infrared camera are now combined with the power of a CameraLink interface.

The Gobi-640-CL is perfectly suited for high speed imaging at full 640x480 resolution with high frame rates of 50 Hz. The camera comes with

an industry-standard CameraLink interface for data transfer at full frame rate. In windowing mode the frame rate can even be further increased.

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

Designed for use in







₽ Pipeline monitoring

Applications

- · 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
- Multiple lenses available
- Smallest complete LWIR CameraLink camera
- Compliant with all CameraLink framegrabbers
- Easy to export with frame rates of 50 Hz in full resolution

Broad range of accessories available to simplify your system



Specifications

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amera specifications	Gobi-640-CL		
.ens			
ocal length	Various lenses available		
Optical interface	Lens mount supporting multiple lenses		
maging performance			
Frame rate (full frame)	50 Hz		
Vindow of interest	Minimum size 160 x 120 (shuttered)		
ntegration time	1 - 80 µs		
emperature stabilization	No ThermoElectric Cooling required (TEC-less)		
ntegration type	Rolling shutter		
On-board image processing	NUC (Non-Uniformity Correction) Auto-offset and auto-gain with selectable region of interest XIE (Xenics Image Enhancement) Histogram equalization		
n-board functionality	Self-starting, trigger possibilities, BIST (Build-In Self-Test), lifetime and power-on counter, test-pattern		
to D conversion resolution	16 bit		
nterfaces			
amera control	CameraLink: XSP (Xenics Serial Protocol)		
mage acquisition	CameraLink		
Trigger	In or out (configurable)		
ower requirements			
Power consumption	< 2 W		
ower supply	12 V DC		
hysical characteristics			
hock	40 g, 11 ms according to MIL-STD810G		
ibration	5 g (20 Hz to 2000 Hz) according to MIL-STD883J		
mbient operating temperature	- 40 °C to 60 °C (industrial components)		
Storage temperature	- 45 °C to 85 °C (industrial components)		
Dimensions	49 W x 49 H x 61.35 L mm³ (lens not included)		
Weight camera head	208 g (lens not included)		

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Array specifications	Gobi-640-CL
Array type	Uncooled microbolometer (a-Si)
Spectral band	8 μm 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-000066	55	50	CameraLink

Thermography calibrations*

Temperature range
-20 °C to 120 °C
50 °C to 400 °C
300 °C to 1200 °C
1000 °C to 2000 °C

^{*}Thermography accuracy +/- 2 °C or +/- 2 % (whichever is the highest) $T_{detecor}$ of 25 °C to 50 °C.

