

Imagine the invisible

Industrial

# Gobi-384-CL

Uncooled thermal  
CameraLink camera



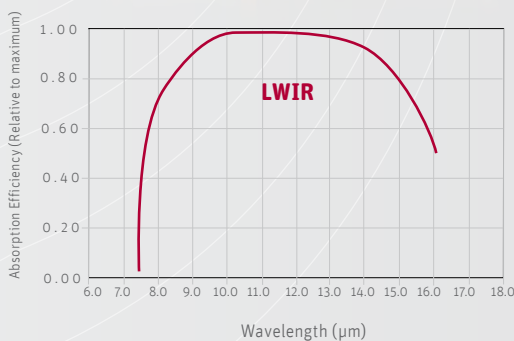
## Easy-to-integrate thermal CameraLink camera

The Gobi-384-CL guarantees to be the most versatile industrial camera on the market with excellent image quality. The advantages of a high quality infrared camera are now combined with the power of a CameraLink interface.

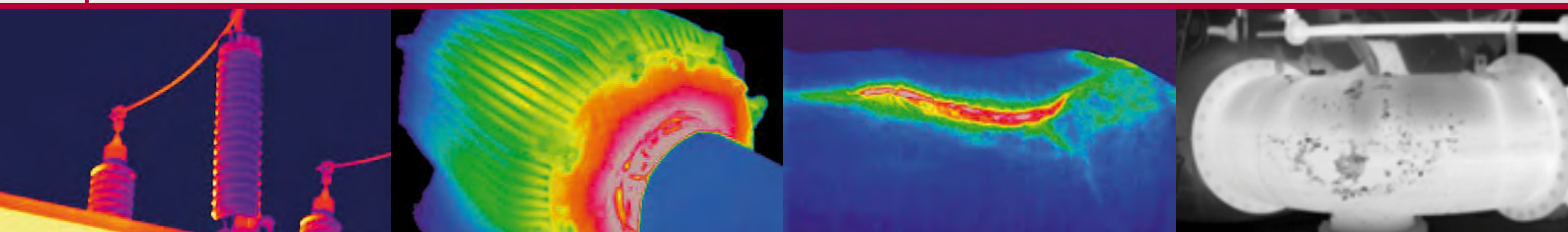
The Gobi-384-CL is perfectly suited for high speed imaging at full 384 x 288 resolution with high frame rates of 84 Hz. The camera comes with an industry-standard CameraLink interface for data transfer at full frame

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-384-CL will bring your measurements to the next level of accuracy!

Need for customization? A variety of industry standard accessories are available.



### Designed for use in



⌘ Maintenance

⌘ Monitoring of critical installations

⌘ Waste combustion

⌘ Pipeline monitoring

### Applications

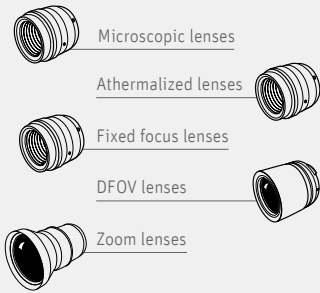
- Semiconductor Inspection
- NDT: Lock-in thermography
- Quality control and quality assurance
- Real-time process control and monitoring

### Benefits & Features

- High sensitivity
- Made in Europe
- Multiple lenses available
- Compliant with all CameraLink framegrabbers
- Smallest complete LWIR CameraLink camera

## Broad range of accessories available to simplify your research

### Lens & filter options



### Inputs



### Software



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

### Outputs

> Discover our Lens Selector Guide  
[www.xenics.com/LSG](http://www.xenics.com/LSG)

## Specifications

Camera Specifications	Gobi-384-CL
<b>Lens</b>	
Focal length	Various lenses available
Optical interface	Lens mount supporting multiple lenses
<b>Imaging performance</b>	
Frame rate (full frame)	84 Hz
Window of interest	Minimum size 160 x 80
Exposure time range	1 $\mu$ s - 70 $\mu$ s
Temperature stabilization	No thermoelectric cooling required (TEC-less)
Integration type	Rolling shutter
On-board image processing	Non-Uniformity Correction, Auto-Offset and Auto-Gain with selectable region of interest, Histogram equalization
On-board functionality	Self-starting, trigger possibilities, BIST (Build-In Self-Test), lifetime and power-on counter, test-pattern
A to D conversion resolution	16 bit
<b>Interfaces</b>	
Camera control	CameraLink
Video out	CameraLink or Xeneth API/SDK
Trigger	In or out (Configurable)
<b>Power requirements</b>	
Power consumption	< 2 W
Power supply	12 V
<b>Physical characteristics</b>	
Shock	40 g, 11 ms according to MIL-STD810G
Vibration	5 g, (20Hz to 2000 Hz) according to MIL-STD883J
Ambient operating temperature	- 40 °C to 60 °C
Storage temperature	- 45 °C to 85 °C
Dimensions	49 W x 49 H x 61.35 L mm <sup>3</sup> (lens not included)
Weight camera head	208 g (lens not included)

Array Specifications	Gobi-384-CL
Array type	Uncooled microbolometer (a-Si)
Spectral band	8 $\mu$ m to 14 $\mu$ m
# Pixels	384 x 288
Pixel pitch	25 $\mu$ m
NETD	< 60 mK @ 30°C with F/1 lens < 80 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-000472	60	84	CameraLink
XEN-000473		9	
XEN-000373	80	84	
XEN-000374		9	

## Thermography calibrations\*

Part number	Temperature range
MSC-000001	-20 °C to 120 °C
MSC-000004	50 °C to 400 °C
MSC-000002	300 °C to 1200 °C
MSC-000043	1000 °C to 2000 °C

\*Thermography accuracy +/- 2 °C or +/- 2 % (whichever is the highest)  
*T<sub>detector</sub>* of 25 °C to 50 °C.