

Imagine the invisible

Industrial



Bobcat-1.7-320

Uncooled smart InGaAs camera

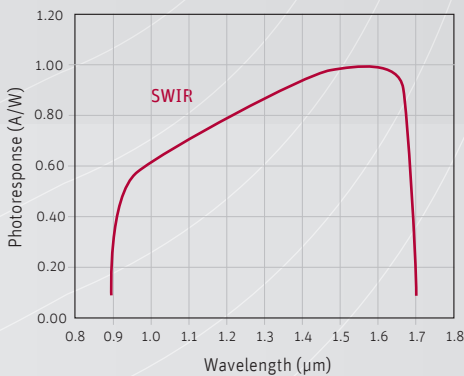
Smart and sharp imaging for reliable quality control

With superior image quality the Bobcat-1.7-320 is available as a complete digital infrared camera system with an embedded Digital Signal Processor (DSP) for intelligent real-time image processing reducing the overall cost. The very compact housing also allows for easy system integration.

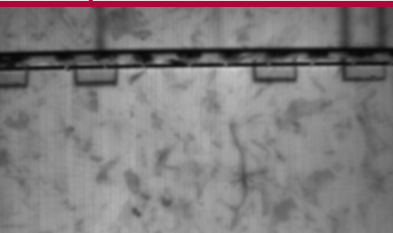
In addition the Bobcat-1.7-320 comes with an analog and digital interface.

The camera interfaces to a PC via standard Ethernet or CameraLink connection.

With the Bobcat-1.7-320 SWIR camera you can look through glass, so standard available C-Mount lenses and protective camera housings can be used. Again making this camera affordable for a wide variety of industrial applications.



Designed for use in



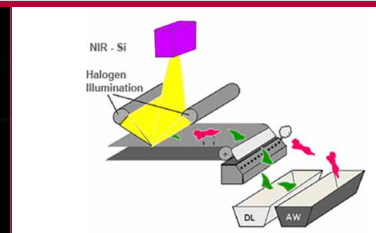
⌘ Solar cell inspection



⌘ Fluid level monitoring



⌘ Stress analysis



⌘ Waste sorting

Applications

- Waste sorting
- Food inspection
- On-line quality control
- Thermal imaging of hot objects (300°C to 800°C range)
- Semiconductor inspection

Benefits & Features

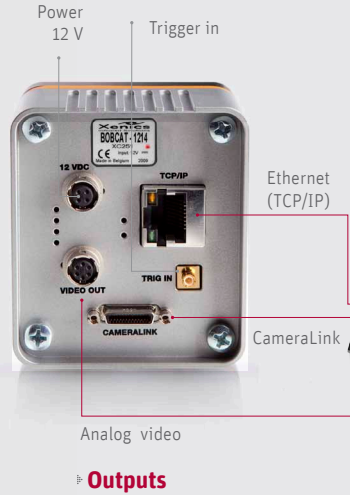
- High sensitivity
- Flexible and easy-to-use
- Ethernet standard interfaces
- Fast time to market with easy integration
- Flexible programming in an open architecture

Broad range of accessories available to simplify your inspection

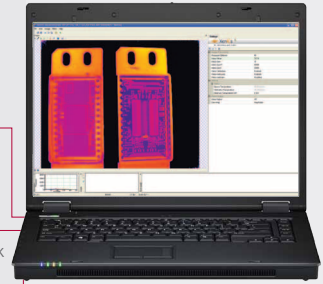
▶ Lens & filter options



▶ Inputs



▶ Software



- Xeneth basic
- Xeneth advanced (optional)
- Xeneth SDK (optional)

▶ Outputs

Specifications

Array specifications	Bobcat-1.7-320
Array Type	InGaAs
Spectral band	0.9 μm to 1.7 μm
# Pixels	320 x 256
Pixel Pitch	20 μm
Array Cooling	Uncooled
Gain setting	High gain: 10 fF Low gain: 90 fF
Pixel operability	> 99%
Camera Specifications	Bobcat-1.7-320
Lens (included)	
Focal length	16 mm f/1.4
Optical interface	C-mount (Broad selection of lenses available)
Imaging performance	
Frame rate	60 Hz in 8 bit mode 30 Hz in 16 bit mode
Window of interest	Minimum size 32 x 4
Integration type	Snapshot
Exposure time range	7 μs - 70 ms (low gain)
S/N ratio	Low gain: 66 dB High gain: 60 dB
A to D conversion resolution	14 bit
On-board image processing	Configurable single NUC Auto level and span control Clahe for contrast improvement
Interfaces	
Camera control	Ethernet (TCP/IP): Xeneth API/SDK CameraLink: XSP (Xeneth Serial Protocol)
Digital output	Ethernet (TCP/IP): 16 bit or 8 bit CameraLink: 16 bit base
Analog output	PAL or NTSC
Trigger	Trigger in; LVCMOS
Power requirements	
Power consumption	< 4.5 W at room temperature
Power supply	12 V
Physical characteristics	
Ambient operating temperature	0°C to 50°C
Dimensions	62 W x 72 H x 58 L mm ³
Weight camera head	380 g (lens not included)

Product selector guide

Part number	Digital	Frame rate	Analog
XEN-000167	Yes	60	PAL
XEN-000229	Yes	60	NTSC

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