Xenics
Infrared Solutions

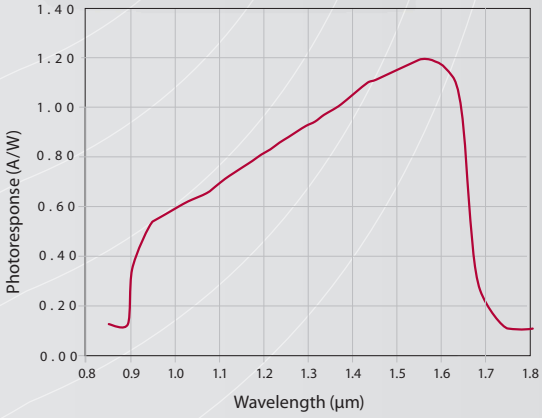
Imagine the invisible

Industrial

Bobcat-1.7-320

Uncooled smart InGaAs camera

Smart and sharp imaging for reliable quality control



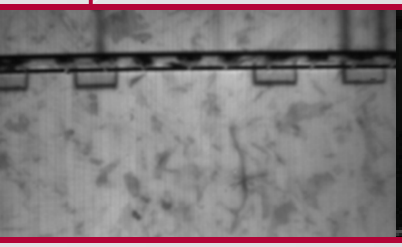
With superior image quality the Bobcat-1.7-320 is available as a complete digital infrared camera system with an embedded Digital Signal Processor (DSP) for intelligent real-time image processing reducing the overall cost. The very compact housing also allows for easy system integration.

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

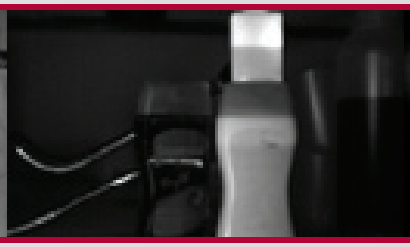
The camera interfaces to a PC via standard Ethernet or CameraLink connection.

With the Bobcat-1.7-320 NIR 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

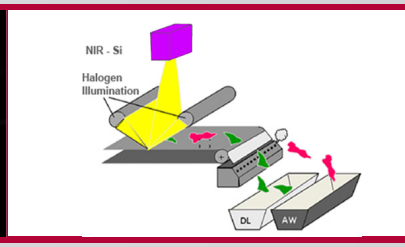


Solar cell inspection



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)

Benefits & Features

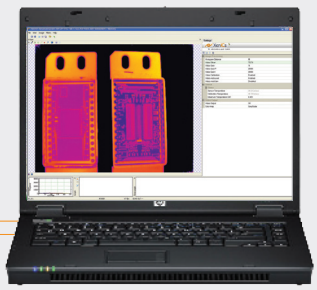
- High sensitivity
- Flexible and easy-to-use
- Ethernet standard interfaces
- Fast time to market with easy integration
- Flexible programming in an open architecture

Broad range of accessories available to simplify your inspection

Lens & filter options

Inputs

Software



Ethernet (TCP/IP)

CameraLink

Analog video

Outputs

- Xeneth basic
- Xeneth advanced (optional)
- Xeneth SDK (optional)
- Intelligent Quadrox Recording (optional)

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: 10fF 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
Integration type	Snapshot
Exposure time range	7 µs - 70 ms (low gain)
S/N ratio	High gain: 62 dB Low gain: 69 dB
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
Trigger	Trigger in; LVCMOS
Power requirements	
Power consumption	< 4.5 W at room temperature
Power supply	12 V
Physical characteristics	
Camera cooling	Passive cooling
Ambient operating temperature	0°C to 50°C
Humidity	Non-condensing

Product selector guide

Part number	Digital	Frame rate	Analog
BO03C500	✔	60	PAL
BO03C500N	✔	60	NTSC

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Xenics
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ISO 9001:2008 certified