

Bobcat 320 Series

Areascan SWIR Camera

- SWIR cooled camera with 320 x 256 resolution
- In-house developed InGaAs sensor

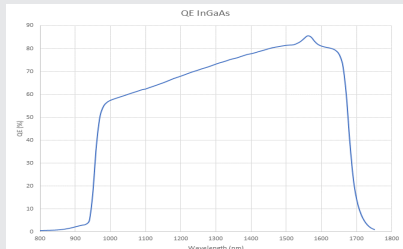


Small, high performance InGaAs camera

The Bobcat 320 series is based on an in-house developed, temperature stabilized InGaAs detector with a 320 x 256 pixel resolution.

The Bobcat 320 cameras are offered with frame rates of either 100 Hz or 400 Hz.

The camera comes with a CameraLink or GigE Vision interface and features low weight and power.

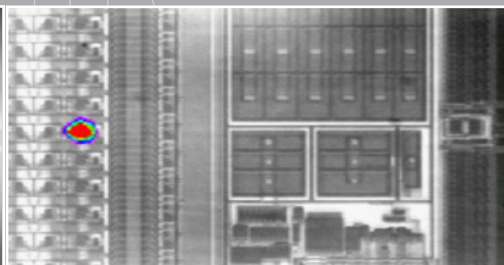


Designed for use in

- Machine Vision
- Safety & Security
- Scientific & Advanced research
- Process Monitoring

Advantages

- Flexible and easy-to-use
- CameraLink or GigE Vision interfacing options
- Low dark current
- Small SWIR areascan camera



• Semiconductor inspection

• Semiconductor inspection

• Art inspection

► Camera Specifications

Camera Specifications	Bobcat 320 CL 100	Bobcat 320 CL 400	Bobcat 320 GigE 100	Bobcat 320 GigE 400
Mechanical specifications				
Approximate dimensions - excluding lens [width x height x length] [mm]	55 x 55 x 72	55 x 55 x 72	55 x 55 x 82	55 x 55 x 82
Weight [gr] - excluding lens	285	285	334	334
Optical interface	C-mount or M42			
Connector GigE	-	-	RJ-45	RJ-45
Connector CameraLink	Standard SDR	Standard SDR	-	-
Connector power	Hirose HR10-7R-SA[73]			
Connector trigger	SMA			
Environmental & power specifications				
Operating case temperature [°C]	From -40 to +70			
Storage temperature [°C]	From -45 to +85			
Power consumption [W]	2.8 [no TE cooler]	2.8 [no TE cooler]	4 [no TE cooler]	4 [no TE cooler]
Power supply voltage	DC 12 V			
Shock	IEC60068-2-27 Ed4.0; half-sine; terminal saw tooth; 50 g [11 ms]			
Vibration	Random: IEC60068-2-64 Ed2.0; 4,3 g [20 - 1000 Hz]. Sine: IEC60068-2-6 Ed7.0; 1 g [10 - 2000 Hz]			
IP rating	IP40			
Regulatory compliance	CE, RoHS			
Electro-optical specifications				
Image format [pixels]	320 x 256			
Pixel pitch [µm]	20			
Detector type	InGaAs photodiode array with CTIA ROIC			
Sensor temperature stabilization	TE cooler			
Integration type	Snapshot - global shutter			
Active area and diagonal [mm]	6.4 x 5.12 [diagonal 8.2]			
Optical fill factor	100%			
Spectral range [nm]	900 - 1700			
Quantum efficiency	~80% [typical peak value]			
Gain modes	Single Gain			
Full well capacities [electrons]	70k			
Read noise [electrons]	110			
Dark current [electrons/second]	<100k [at 288K sensor temp and 150 mV reverse bias]			
Read out mode	ITR			
Pixel operability	>99%			
Preconfigured exposure time range [ms]	0.5 to 10	0.01 to 40	0.5 to 10	0.01 to 40
Max frame rate [Hz] [full frame]	100	400	100	400
Region of interest	No	Yes	No	Yes
Min region size [pixels]	-	32 x 4 [step 4 x 1]	-	32 x 4 [step 4 x 1]
Max frame rate [Hz] [min region size]	-	>10000	-	>10000
Analog-to-Digital [ADC] [bits]	14			
Command and control	CameraLink	CameraLink	GigE Vision	GigE Vision
Digital output format	CameraLink [16 bit]	CameraLink [16 bit]	GigE Vision [16 bit]	GigE Vision [16 bit]
Trigger	In or out via SMA or in via CL-CC1 [Configurable]	In or out via SMA or in via CL-CC1 [Configurable]	In or out via SMA [Configurable]	In or out via SMA [Configurable]
Product selector guide				
Part number	XEN-000584	XEN-000526	XEN-000583	XEN-000524

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