

# BOBCAT

## INTELLIGENT CAMERA SERIES

### IGV-B1610

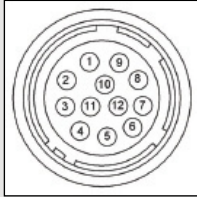


# BOBCAT IGV-B1610 Specifications

Maximum Resolution	1628 x 1236
Sensor Type	1/1.8" CCD ICX-274
Pixel Size	4.40 $\mu$ m
Frame Rate	17/25 fps (normal/overclock)
Max Frame Rate	212 FPS
Minimum S/N ratio	60 db
Video Output	RJ45 CAT5e, CAT6
Output Format	Mono or color 8, 10, 12, 16 or RGB 24 bit single output
Binning H & V	x1, x2, x3, x4, x8
Area of Interest	8 independent AOIs, 2 x 2 to 1628 x 1236
Shutter Speed	1/200,000 to 1/17 sec (nom)
Long Integration	Up to 16 sec
Gamma Correction	G=1.0, G= 0.45, user upgradable LUT
Video Gain	36 dB range, 1024 steps, 0.0351 dB per step
Exposure and AGC	Manual, Auto, Programmable
Iris Control	Auto, Programmable
Strobe Output	Programmable position and duration
Image Overlay	Yes, Programmable

Data Corrections	DPC, HPC, LUT
Hardware Trigger	LVTTTL or TTL via IN1/IN2, level, edge, pulse-width, programmable
Software Trigger	Software, internal, level, edge, pulse-width, programmable
Trigger Modes	Programmable, standard, double exposure, fast, frame accumulation, asynchronous
Min. Illumination	0.5 Lux, F/1.4
Supply Input Range	12 VDC, (10 V – 15 V)
Power Consumption	4.6 W, 350 mA steady (Typ), 1.5 A inrush
Size (W x H x L)	46 x 46 x 63mm
Weight	192g
Lens Mount	C-Mount
Vibration, Shock	10G (20 - 200)Hz XYZ, 70G
Environmental	Operation: (-40° to +85°)C Storage: (-40° to +90°)C
Humidity	10% to 90% non-condensing
MTBF	660,000 hours @ 40°C
Regulatory	FCC 15 part A, CE, RoHS

## Power and I/O Interface:



1	12V DC Return	7	OUT1 Signal
2	+12V DC	8	IN1 Signal
3	IRIS VCC	9	IN2 Signal
4	IRIS Video	10	IN1/2 Return
5	IRIS Return	11	Reserved
6	OUT1/2 Return	12	OUT2 Signal

Connector: Hirose HR 10A-10R-12PB(71)

## Order Options:

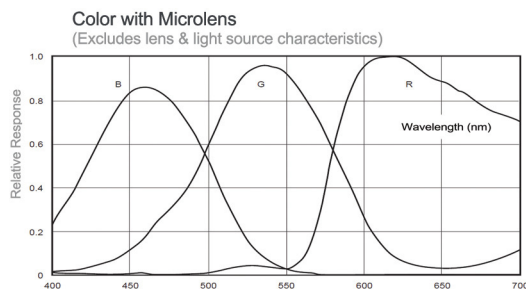
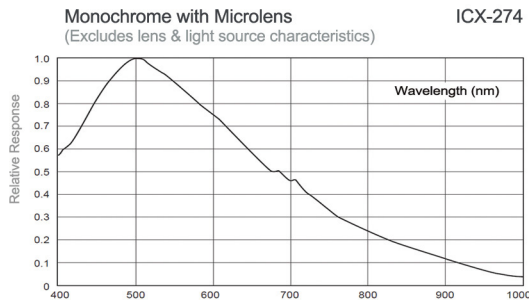
IGV-B1610M-SCO Monochrome GigE Vision Output  
IGV-B1610C-SCO Color GigE Vision Output

For specific details and ordering information, consult the camera user's manual or contact IMPERX at [sales@imperx.com](mailto:sales@imperx.com).

## Accessories:

PS12V04: Power Supply (sold separately)

## Spectral Response



## Software/Drivers/Interface

**GigE Vision Protocol:** 10/100/1000 Mb/s, 802.3, Ethernet V2.0, IPv4, IGMPv.2, UDP and ICMP, and GenI-Cam

**eBUS Drivers:** Windows XP 32b, XP 64b, Vista 32b, Vista 64b, 7 32b, 7 64b. Linux: SuSE v10, RedHat 5 (Kernel 2.6)

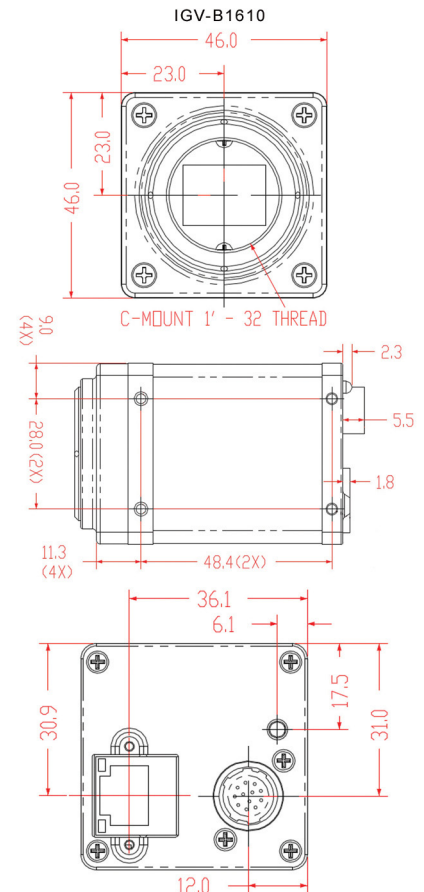
**Software:** Pleora GEVPlayer, IMPERX GEV Player (includes Cam-Config GUI), Bobcat GEV Download Utility, Net Command

**SDK:** PureGEV GigE Vision SDK for Windows (Microsoft Visual C++, COM, .NET, C#, VB.NET, Borland C++Builder), PureGEV, GigE Vision SDK for Linux

**Compatible with:** Labview, Halcon, MIL, Common Vision BLOX, StreamPix, ActiveGigE, and others

**Multicast capable**

## Mechanical Dimensions



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