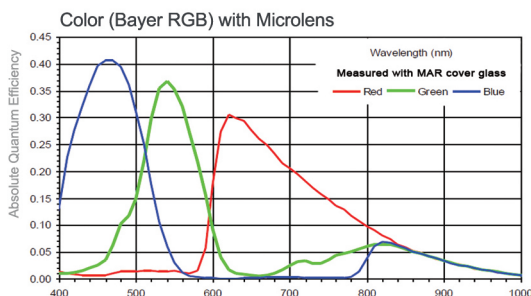
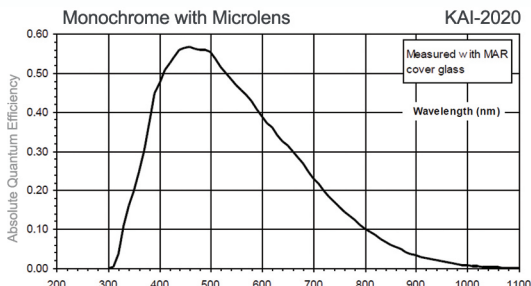


B1620



IMPERX: Technically superior products, full tech support, rapid-response customer care. "Bobcat 2.0" adds many new features, lens control, more memory and enhanced image quality. Each easy to use Bobcat is supported by IMPERX professionals.



INTERFACES AVAILABLE:

Resolution

Sensor

Sensor Format

Pixel Size

Frame Rate Standard Clock

Frame Rate Overclocked

Maximum Frame Rate

Minimum S/N Ratio

Output Format

Analog Gain Control

Black Level Control

Digital Gain and Offset

RGB Gain and Offset

White Balance

Shutter Speed

Exposure Control

Long Integration

Regions of Interest (ROI)

Binning H/V

Trigger Inputs

Trigger Options

Trigger Modes

Double Trigger (PIV) Interframe

External Inputs/Outputs

Strobe Output

RS232 Interface

Pulse Generator

Image Overlay

Image Enhancement

Internal DDR Memory

On Board FIFO (GEV & PoE)

Gamma Correction

Data Corrections

Minimum Illumination

Lens Mount

Video Iris Control

Iris, Zoom Focus Control

Supply Input Range

Power Consumption

Size – Width/Height

Size – Length

Weight

Vibration, Shock

Environmental

Humidity

MTBF

Regulatory

Camera Link® Base (PoCL), GigE Vision, PoE, CoaXPress

1600 x 1200 (std.), 1608 x 1208 (max.)

KAI-2020, CCD

11.89mm (H) x 8.94 mm (V) 14.8mm diagonal

1.0" optical format

7.40 μm

40 MHz / 35 fps

50 MHz / 44 fps

298 fps

60dB

Mono CCD: 8, 10, 12, 14-bit (Single only)

Color CCD: 8, 10, 12, RGB 24

Manual, Auto: 0 - 36dB 1024 steps

Manual, 1024 steps

Manual

Manual

Manual, auto, off

1 μs /step, 1/100,000 to 1/35 sec (nom)

Manual, auto, external

Up to 16 seconds

7 ROIs, any line to any line, any pixel to any pixel

1x, 2x, 3x, 4x, 8x (Independent for H & V)

External (TTL via IN1/IN2), pulse generator,

software, computer

Level, edge, pulse width, internal exposure,

up to 16 seconds trigger delay, debounce

Free-run, standard, double, fast, asynchronous,

frame accumulation

Time: 200 nanoseconds

2 IN, 2 OUT, user programmable

2 strobes, programmable position and duration

Yes, programmable

Yes, programmable

Optical center, programmable H & V lines

Threshold, contrast enhancement, knee correction,

horizontal flip, negative image, bit shift (+/- 7 places)

2Gb (256 MB)

1Gb (128 MB)

G=1.0, G=0.45, user upgradeable LUT

Defective/hot pixel correction (static, dynamic), FFC,

black level, vertical smear

1 Lux, F/1.4

C-Mount

Auto, programmable

Manual, user programmable

12VDC (10V - 15V), 1.5 A inrush

CLB 3.5 W, GEV 4.8W, PoE 5.9W, CXP TBD

46mm (W) x 46mm (H) – Applies to all interfaces

CLB 50.6mm (L), GEV 68.6mm (L), PoE 82.2mm (L),

CXP 58.25mm (L)

CLB 164g, GEV 219g, PoE 320g, CXP 210g

100g (20-200) HZ XYZ, 1000g

-40C to +85C Operating, -50C to +90C Storage

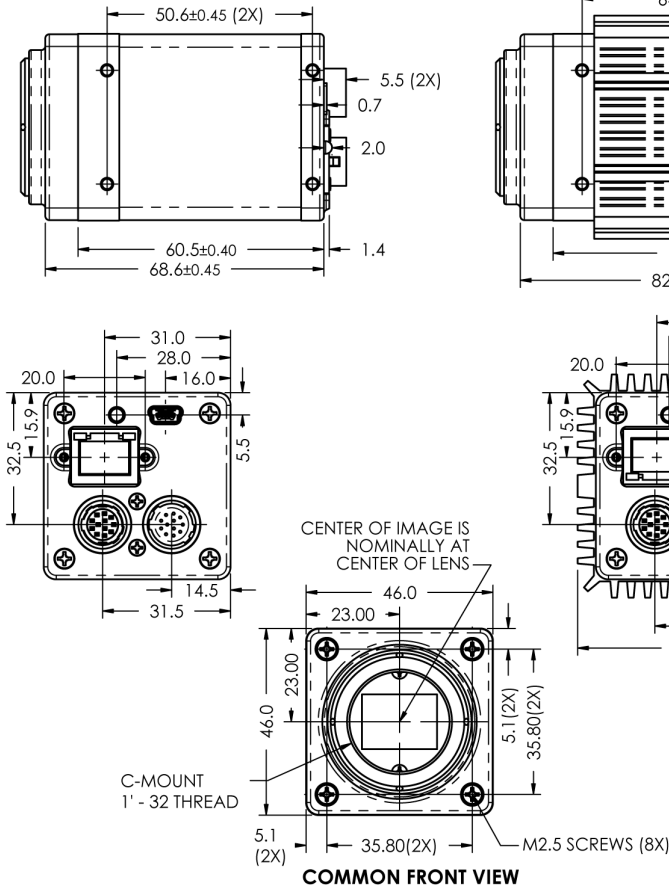
10% to 90% non-condensing

>660,000 hours @ 40°C (Telcordia SR-332)

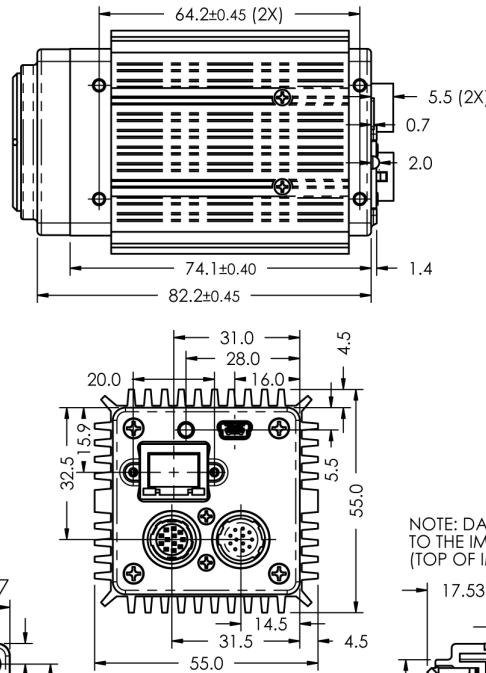
FCC 15 part A, CE, RoHS

BOBCAT 2.0 B1620 Specifications

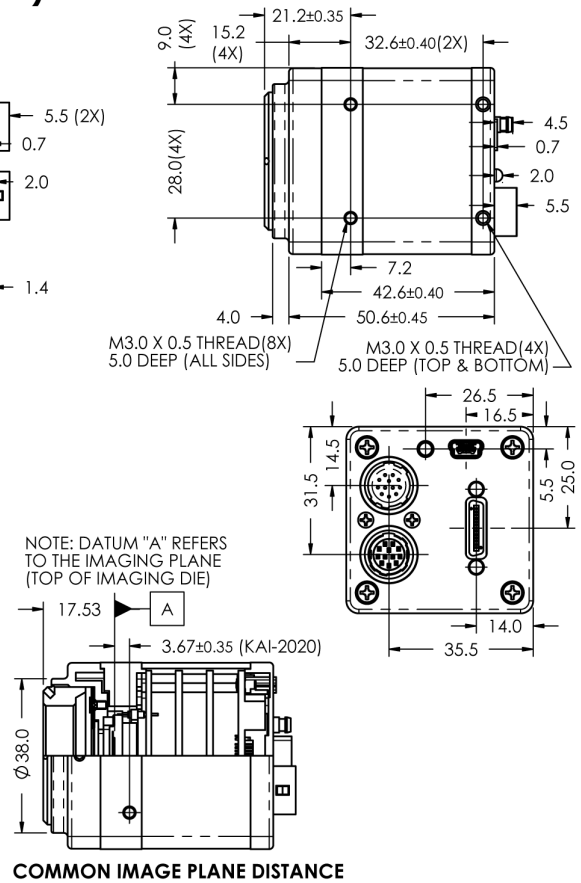
GigE Vision(Without PoE)



GigE Vision(With PoE)

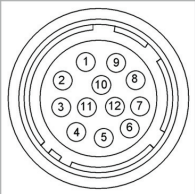


Camera Link



Hirose Connectors

Power and I/O Interface



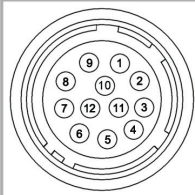
1 12V DC Return *	7 OUT1 Signal
2 +12V DC*	8 IN1 Signal
3 IRIS VCC	9 IN2 Signal
4 IRIS Video	10 IN1/2 Return
5 IRIS Return	11 Reserved
6 OUT1/2 Return	12 OUT2 Signal

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

*Not connected for CXP

Lens Control/RS232

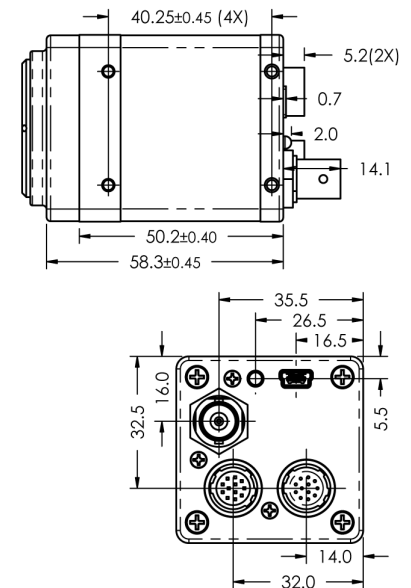
See manual for PIN information



1 IRIS Return	7 FOCUS +
2 IRIS VCC	8 ZOOM -
3 IRIS Video	9 ZOOM +
4 IRIS -	10 UART_COM
5 IRIS +	11 UART_RX
6 FOCUS -	12 UART_TX

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

CoaXPress



B1620 Ordering Information

Interfaces available

Camera Link® Base (CLB)
GigE Vision (GEV / PoE)
CoaXPress (CXP)

Sensor types available

Monochrome
Bayer Color

Accessories (Sold separately)

PS12v04-Power Supply w/ 1 input and 1 output
PS12v05-Power Supply (as above) and Video Iris

IMPERX

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bobcat-B1620_Rev1