

B1320



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

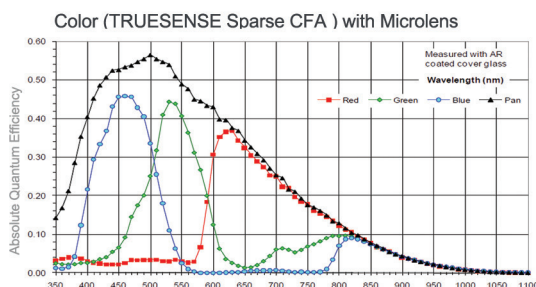
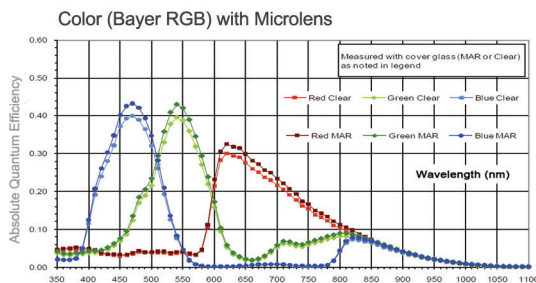
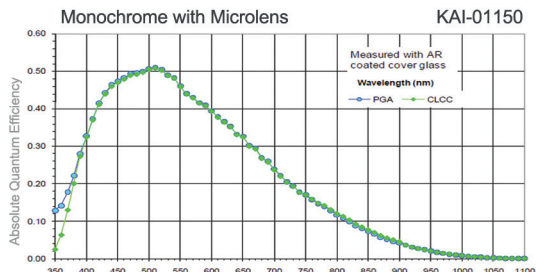
Double Trigger (PIV) Interframe
 External Inputs/Outputs
 Strobe Output
 RS232 Interface
 Pulse Generator
 Image Overlay
 Image Enhancement

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

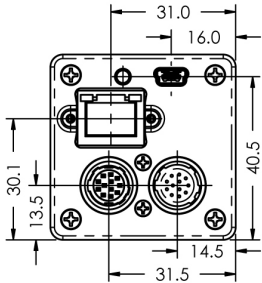
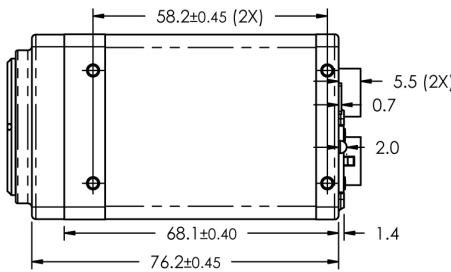
Weight
 Vibration, Shock
 Environmental
 Humidity
 MTBF
 Regulatory

Camera Link® Base (PoCL), GigE Vision, PoE, CoaXPress, HD-SDI
 1280 x 720 (std.), 1312 x 728 (max.)
 KAI-01150, CCD
 7.22mm (H) x 4.00mm (V) 8.08mm diagonal, 1/2" optical format
 5.50 μ m
 40 MHz / 68 fps
 50 MHz / 85 fps
 471 fps
 60dB
 Mono CCD: 8, 10, 12, 14-bit (Single only)
 Color CCD: 8, 10, 12
 TRUESENSE Sparse CFA
 Manual, Auto: 0 - 36dB 1024 steps
 Manual, 1024 steps
 Manual
 Manual
 Manual, auto, off
 1 μ s/step, 1/250,000 to 1/68 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), black level, vertical smear
 1 Lux, F/1.4
 C-Mount (Default), CS
 Auto, programmable
 Manual, user programmable
 12VDC (10V - 15V), 1.5 A inrush
 CLB 3.3 W, GEV 4.7W, PoE 5.9W, CXP TBD 46mm (W) x 46mm (H) – Applies to all interfaces CLB 58.3mm (L), GEV 76.2mm (L), PoE 89.8mm (L), CXP 65.8mm (L)
 CLB 165g, GEV 284g, PoE 394g, CXP 274g
 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

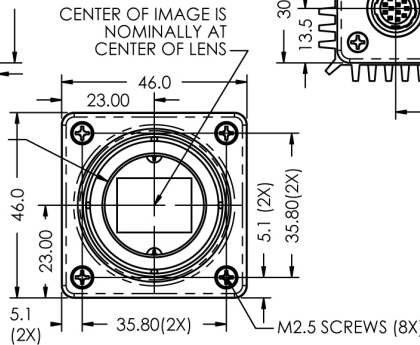


BOBCAT 2.0 B1320 Specifications

GigE Vision(Without PoE)

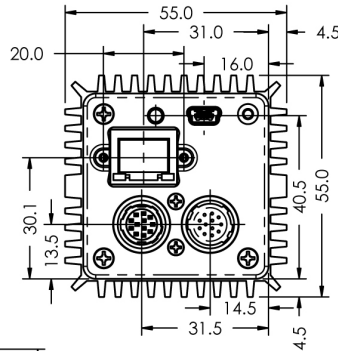
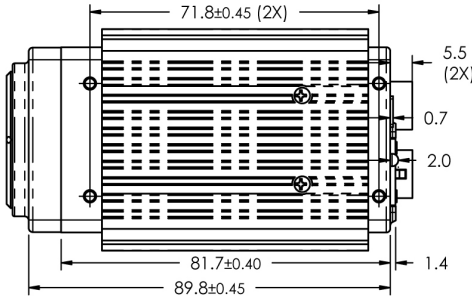


C-MOUNT
1" - 32 THREAD

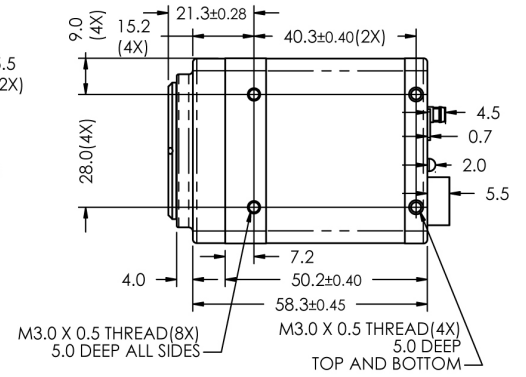


COMMON FRONT VIEW

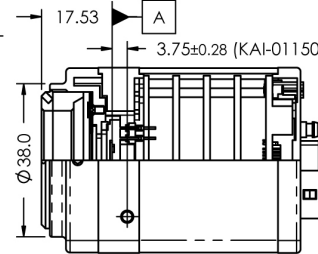
GigE Vision(With PoE)



Camera Link

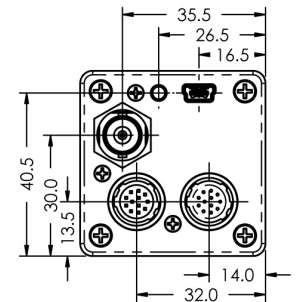
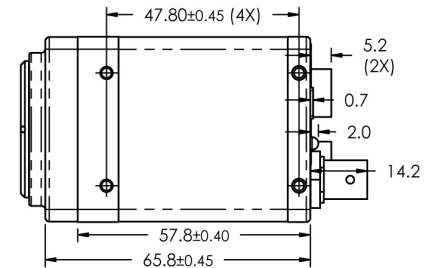


NOTE: DATUM "A" REFERS TO THE IMAGING PLANE (TOP OF IMAGING DIE)



COMMON IMAGE PLANE DISTANCE

CoaXPRESS



Hirose Connectors

Power and I/O Interface

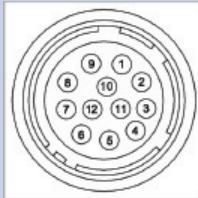


- | | |
|-------------------|-----------------|
| 1 12V DC Return * | 7 OUT1 Signal |
| 2 +12V DC* | 8 IN1 Signal |
| 3 IRIS VCC | 9 IN2 Signal |
| 4 IRIS Video | 10 IN1/2 Return |
| 5 IRIS Return | 11 Reserved |
| 6 OUT1/2 Return | 12 OUT2 Signal |

*Not connected for CXP
Connector: Hirose HR 10A- 10R- 12PB(71)

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)

B1320 Ordering Information

Interfaces available

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

Sensor types available

- Monochrome
- Bayer Color
- TRUESENSE

Accessories (Sold separately)

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

IMPERX

WWW.IMPERX.COM

Quality Management System ISO 9001:2008 Registered
Environmental Management System ISO 14001:2004 Registered
DDTC Registered (Directorate of Defense Trade Controls, US Department of State)



bobcat-B1320, Rev1