



B1410



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
 1360 x 1024 (std.), 1392 x 1040 (max.)

ICX-285 EXview HAD CCD

8.98 mm (H) x 6.71mm (V) 11mm diagonal,
 2/3" optical format

6.45 μ m

40 MHz / 23 fps

54 MHz / 30 fps

187 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 μ s/step, 1/250,000 to 1/23 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

0.5 Lux, F/1.4

C-Mount

Auto, programmable

Manual, user programmable

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

CLB 2.8 W, GEV 4.3W, PoE 5.3W, CXP TBD

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

CLB 46.8mm (L), GEV 64.7mm (L), PoE 78.3mm (L),

CXP 54.5mm (L)

CLB 162g, GEV 200g, PoE 304g, CXP 192g

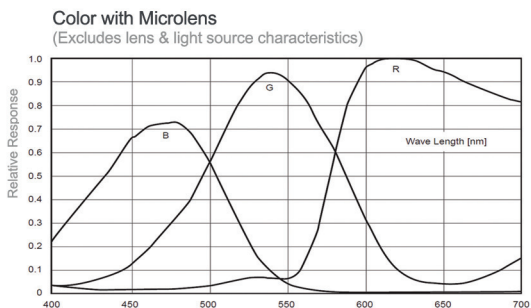
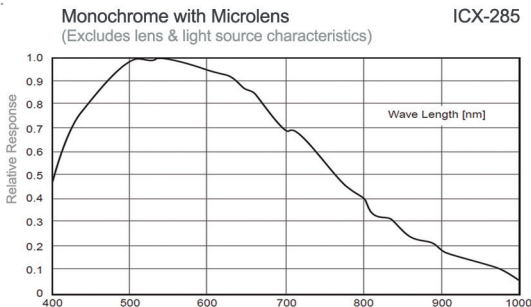
100g (20-200) HZ XYZ, 1000g

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

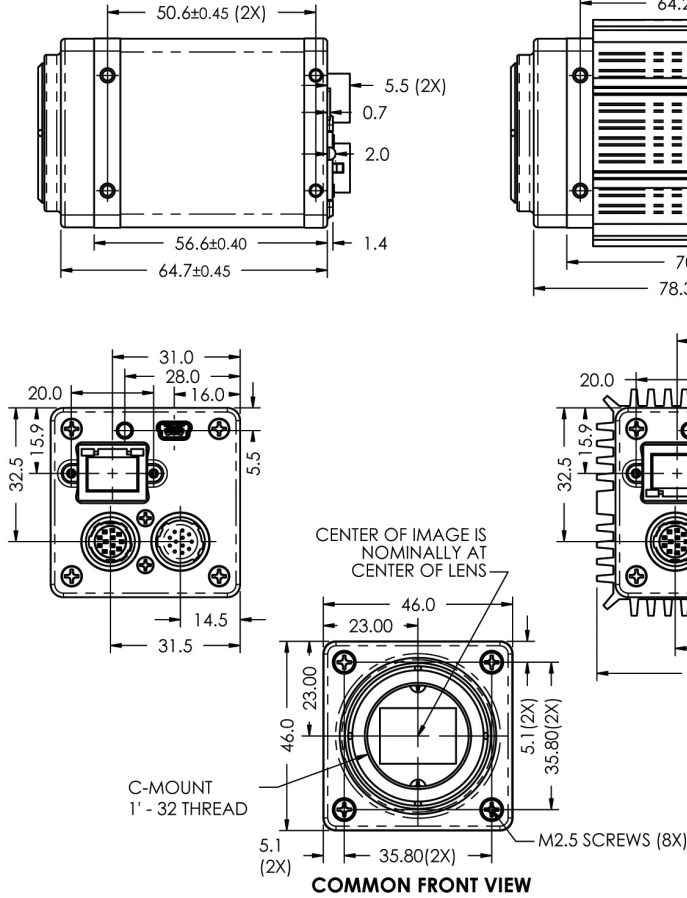
10% to 90% non-condensing

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

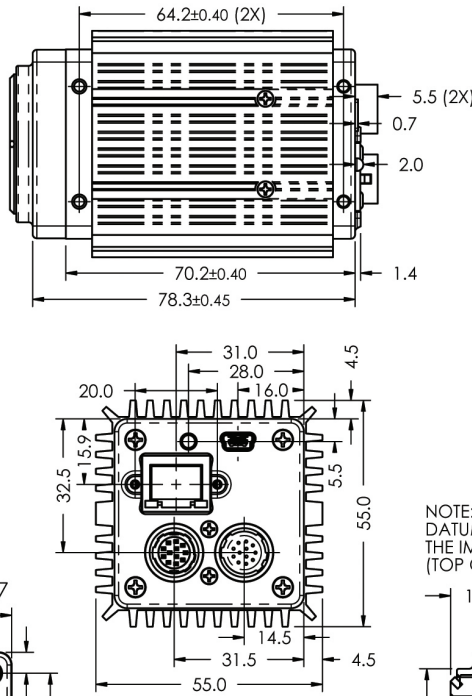
FCC 15 part A, CE, RoHS



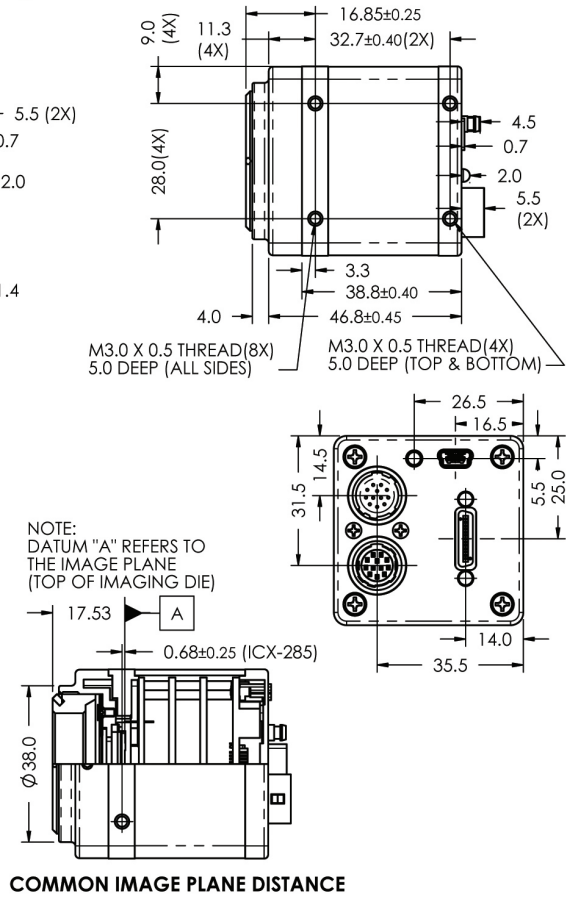
GigE Vision(Without PoE)



GigE Vision(With PoE)

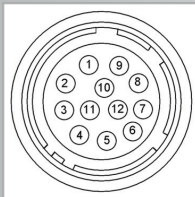


Camera Link



Hirose Connectors

Power and I/O Interface



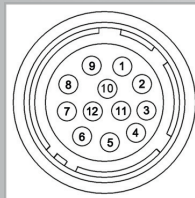
1	12V DC Return *	7	OUT1 Signal
2	+12V DC*	8	IN1 Signal
3	IRIS VCC	9	IN2 Signal
4	IRIS Video	10	IN1/2 Return
5	IRIS Return	11	Reserved
6	OUT1/2 Return	12	OUT2 Signal

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

*Not connected for CXP

Lens Control/RS232

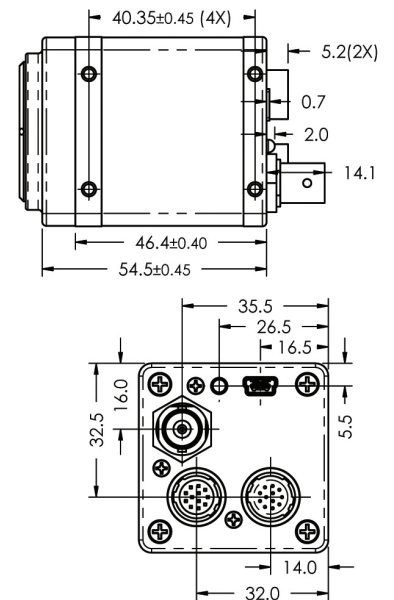
See manual for PIN information



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



B1410 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

WWW.IMPERX.COM

RoCI CoaxPress **GIGEVISION** **POE** POWER OVER ETHERNET

bobcat-B1410,Rev1