

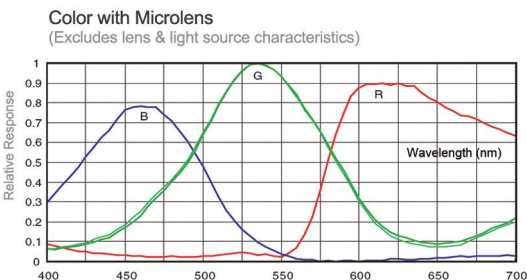
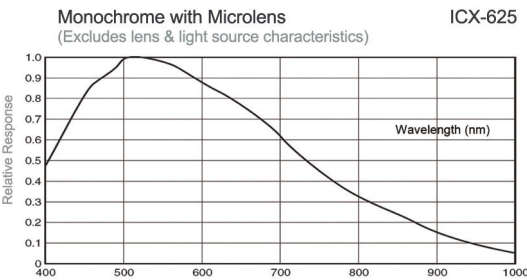
B2520



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.

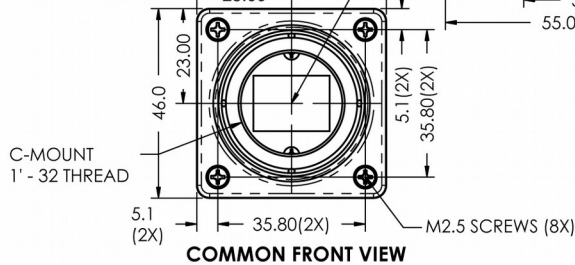
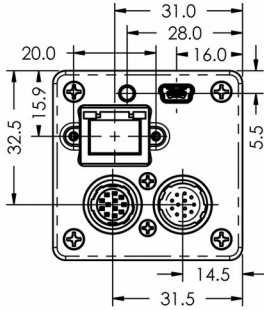
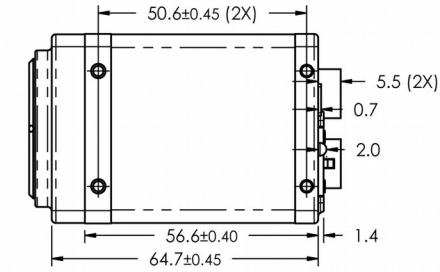
INTERFACES AVAILABLE:

- Resolution 2448 x 2050 (std.), 2456 x 2058 (max.)
- Sensor ICX-625, CCD
- Sensor Format 8.47mm (H) x 7.10mm (V), 11.016 diagonal
- Pixel Size 2/3" optical format
- Frame Rate Standard Clock 3.45 µm
- Frame Rate Overclocked 40 MHz / 11 fps
- Maximum Frame Rate 64 MHz / 16 fps
- Minimum S/N Ratio 50 fps
- Output Format 53dB
- Mono CCD: 8, 10, 12, 14-bit (Single only)
 - Color CCD: 8, 10, 12
- Analog Gain Control Manual, Auto: 0 - 36dB 1024 steps
- Black Level Control Manual, 1024 steps
- Digital Gain and Offset Manual
- RGB Gain and Offset Manual
- White Balance Manual, auto, off
- Shutter Speed 1us/step, 1/80,000 to 1/11 sec (nom)
- Exposure Control Manual, auto, external
- Long Integration Up to 16 seconds
- Regions of Interest (ROI) 7 ROIs, any line to any line, any pixel to any pixel
- Binning H/V 1x, 2x, 3x, 4x, 8x (Independent for H & V)
- Trigger Inputs External (TTL via IN1/IN2), pulse generator, software, computer
- Trigger Options Level, edge, pulse width, internal exposure, up to 16 seconds trigger delay, debounce
- Trigger Modes Free-run, standard, double, fast, asynchronous, frame accumulation
- Double Trigger (PIV) Interframe Time: 200 nanoseconds
- External Inputs/Outputs 2 IN, 2 OUT, user programmable
- Strobe Output 2 strobes, programmable position and duration
- RS232 Interface Yes, programmable
- Pulse Generator Yes, programmable
- Image Overlay Optical center, programmable H & V lines
- Image Enhancement Threshold, contrast enhancement, knee correction, horizontal flip, negative image, bit shift (+/- 7 places)
- Internal DDR Memory 2Gb (256 MB)
- On Board FIFO (GEV & PoE) 1Gb (128 MB)
- Gamma Correction G=1.0, G=0.45, user upgradeable LUT
- Data Corrections Defective/hot pixel correction (static, dynamic), black level, vertical smear
- Minimum Illumination 1 Lux, F/ 1.4
- Lens Mount C-Mount
- Video Iris Control Auto, programmable
- Iris, Zoom Focus Control Manual, user programmable
- Supply Input Range 12VDC (10V - 15V), 1.5 A inrush
- Power Consumption CLB 3.4 W, GEV 5.2W, PoE 6.3W, CXP TBD
- Size – Width/Height 46mm (W) x 46mm (H) – Applies to all interfaces
- Size – Length CLB 46.8mm (L), GEV 64.7mm (L), PoE 78.3mm (L), CXP 54.5mm (L)
- Weight CLB 159g, GEV 197g, PoE 298g, CXP 189g
- Vibration, Shock 100g (20-200) HZ XYZ, 1000g
- Environmental -40°C to +85°C Operating, -50°C to +90°C Storage
- Humidity 10% to 90% non-condensing
- MTBF >660,000 hours @ 40°C (Telcordia SR-332)
- Regulatory FCC 15 part A, CE, RoHS

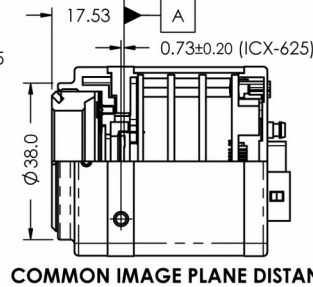
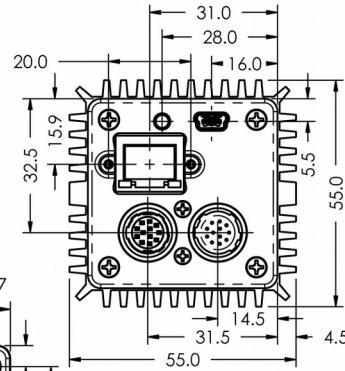
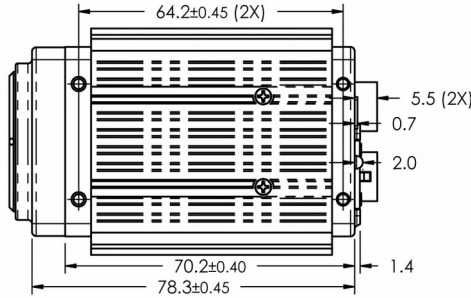


BOBCAT 2.0 B2520 Specifications

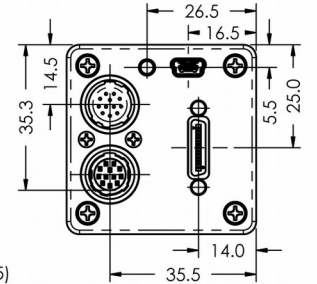
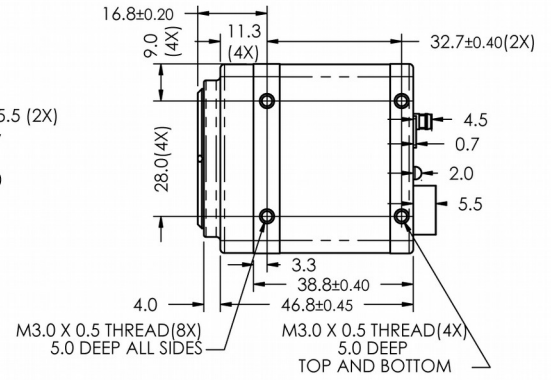
GigE Vision(Without PoE)



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 |

*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)

B2520 Ordering Information

Interfaces available

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

Sensor types available

- Monochrome
- Bayer Color

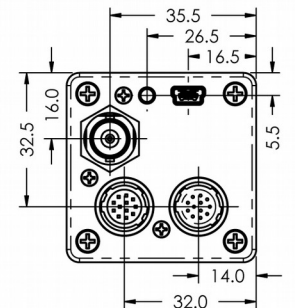
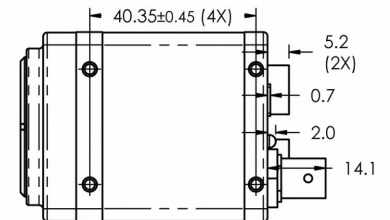
Accessories (Sold separately)

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



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CoaXPress



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)

