

Zebra[®] 2



Compression • POE • ONVIF & GigE Vision • Trigger and strobe

- High-sensitive Sony CCD sensors
- HD-SDI (2.97 Gbs/s) and GigE Vision (1000Mb/s, PoE)
- 2.0 MP at 30 FPS and 5.0 MP at 15 FPS

This unique multi-interface camera makes it possible to simultaneously view low latency uncompressed video over HD-SDI and send compressed (or uncompressed) images through a Gigabit Ethernet interface while supporting real-time trigger and strobe. The Zebra2 retains the technical advances inherent to high-end machine vision cameras while providing the flexibility to be used in a wide variety of traffic and surveillance applications.



ZBR2-PGEHD-20S4C	Color	2.0 MP	<ul style="list-style-type: none"> ■ Sony ICX274 CCD, 1/1.8", 4.4 μm ■ Global Shutter ■ 1624 x 1224 at 30 FPS (HD-SDI 25 FPS)
ZBR2-PGEHD-28S4C	Color	2.8 MP	<ul style="list-style-type: none"> ■ Sony ICX687 CCD, 1/1.8", 3.69 μm ■ Global Shutter ■ 1928 x 1448 at 26 FPS (HD-SDI 25 FPS)
ZBR2-PGEHD-50S5C	Color	5.0 MP	<ul style="list-style-type: none"> ■ Sony ICX625 CCD, 2/3", 3.45 μm ■ Global Shutter ■ 2448 x 2048 at 15 FPS (HD-SDI 25 FPS)
ZBR2-PGEHD-51S5C	Color	5.0 MP	<ul style="list-style-type: none"> ■ Sony ICX655 CCD, 2/3", 3.45 μm ■ Global Shutter ■ 2448 x 2048 at 10 FPS (HD-SDI 25 FPS)
A/D Converter	14-bit, 12-bit (ZBR2-PGEHD-51S5)		
Image Data Output	8, 12, 16 and 24 bit digital data		
Image Data Formats	Raw8, Raw12, Raw16, RGB, YUV411, YUV422, MJPEG Image Compression		
Image Compression	MJPEG with multiple compression levels		
Partial Image Modes	HD-SDI supports standard SMPTE formats , RTSP/GVSP supports binned, reduced resolution for increased framerate		
Image Processing	Gamma, lookup table, hue, saturation, and sharpness		
Gain	Automatic/Manual/One-Push Gain modes 0 dB to 24 dB		
Gamma	0.50 to 4.00, programmable lookup table		
White Balance	Automatic/manual modes, programmable via software		
High Dynamic Range	Cycle 4 gain and exposure presets		
Color Processing	On-camera in YUV or RGB format, or on-PC in Raw format		
Digital Interface	Gigabit Ethernet 10/100/1000 BASE-T interface with screw locks for camera control and video (Power over Ethernet optional), HD-SDI up to 2.97 Gbit/s for video		
Transfer Rates	GigE 10/100/1000 Mbit/s; HD-SDI up to 2.97 Gbit/s		
Data Transport Protocols	GVSP, RTSP, HD-SDI		
GPIO	6-pin GPIO connector for trigger, strobe, and serial I/O; 1 opto-isolated input, 1 opto-isolated output		
External Trigger Modes	Trigger Modes 0, 1, 13, 14, and 15; external hardware or software trigger		
Synchronization	Via external trigger or software trigger		
Shutter	Global Shutter Automatic/manual/one-push extended shutter modes, programmable via software or synchronized to external trigger 0.03 ms to 2 seconds (extended shutter mode)		
Image Buffer	32 MB frame buffer		
Memory Channels	2 memory channels for custom camera settings		
Flash Memory	1 MB		
Dimensions	44 x 44 x 87.5 mm excluding lens holder and connectors (metal case)		
Mass	150 grams (without optics or tripod mounting bracket)		
Power Consumption	8-30 V, <6 W, via 4-pin power connector or GigE interface		
Camera Specification	GigE Vision™ v1.2, Onvif™ v1.01, http, rtsp, udp, SMPTE 292M, SMPTE 424M		
Camera Control	via FlyCap SDK, GigE Vision, Onvif, or RTSP		
Camera Updates	In-field firmware updates via desktop application or webpage		
Lens Control	Auto Iris		
Lens Mount	CS-mount with hand-adjustable back focal distance		
Temperature	Operating: 0° to 45°C; Storage: -30° to 60°C		
Emissions Compliance	CE, FCC, RoHS		
Operating System	Windows, Linux		
Warranty	Three years		

Zebra2 Specifications

Compressed/Uncompressed IP interface

Transmit compressed and uncompressed images over the 100/1000 BASE-T (1 Gb/s) POE interface for image storage and image analysis such as ALPR or vehicle counting.

Simultaneous Streaming HD-SDI and Ethernet

Stream images over low latency HD-SDI and over ethernet at the same time.

Programmable Trigger and Strobe

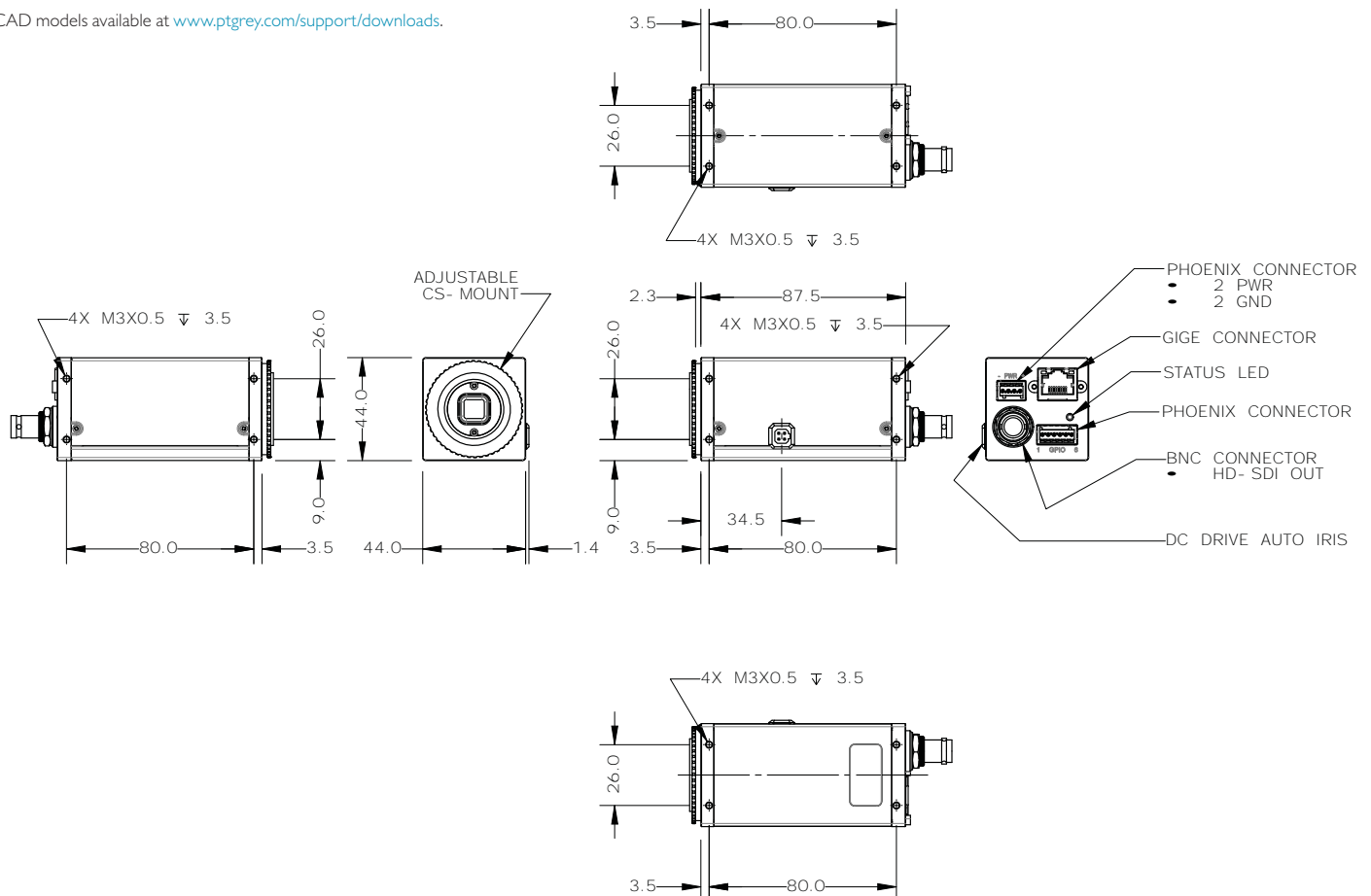
Use the GPIO to synchronize with multiple external devices simultaneously such as ground loops, strobe lights or light curtains. RS-485 compliant for additional external communications.

Life-Like Images

Point Grey's proprietary image pipeline provides accurate color reproduction, low light noise reduction, reduced smear and more.

Dimensional Drawings (in mm)

CAD models available at www.ptgrey.com/support/downloads.



Easy Installation

M3 and 1/4-20 mounting options on all four sides.

Sensitive Sensors

Multi-megapixel Sony CCD Global Shutter sensors provide distortion free, high resolution capture of fast moving objects.

Lens Tuning

Finely tune your C/CS lens spacing with the flange back adjustment ring.