

HB-100-SBL

25GigE-SFP28 camera with Sony IMX937



Product Description

The BOLT 25GigE HB-100-SBL features the back-illuminated Sony IMX937 CMOS sensor. At full resolution (104.9 MP, 10240 × 10240), it achieves up to 29 frames per second.

Its 25GigE SFP28 interface offers many benefits including low-cost accessories, low CPU overhead, low latency, low jitter, and accurate multi-camera synchronization using IEEE1588. Emergent supports standard SFP28 cabling options, including lengths from 1 meter to 10 kilometers.

If you like the Sony IMX937 sensor, but require higher framerates, look at the [ZENITH 100GigE HZ-100-SB](#), which contains the IMX927 sensor.

Key Benefits

- » High-speed 25GigE SFP28
- » RoCEv2, RDMA, GigEVision® 3.0 firmware available. GenICam™ compliant.
- » Back-illuminated pixel structure
- » 25x the speed of GigE
- » Available in monochrome (HB-100-SBL-M), and color (HB-100-SBL-C)
- » Optional IP67 housing

Applications

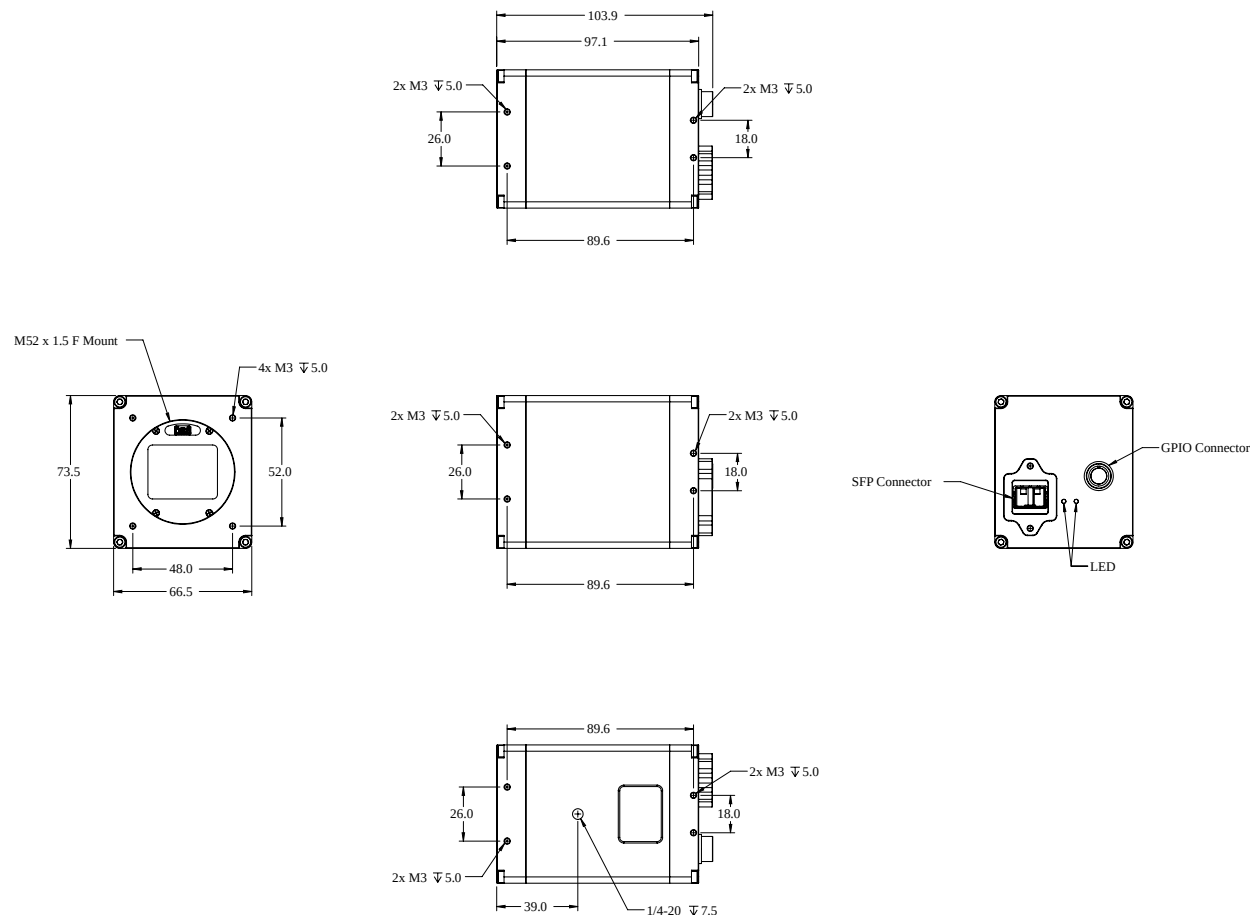
- » Industrial Inspection
- » Automation
- » Intelligent Transportation Systems
- » Logistics
- » Virtual Reality

** All minimum exposure specs can vary from what is listed based on the limitations of each sensor as per notice from the manufacturer.*

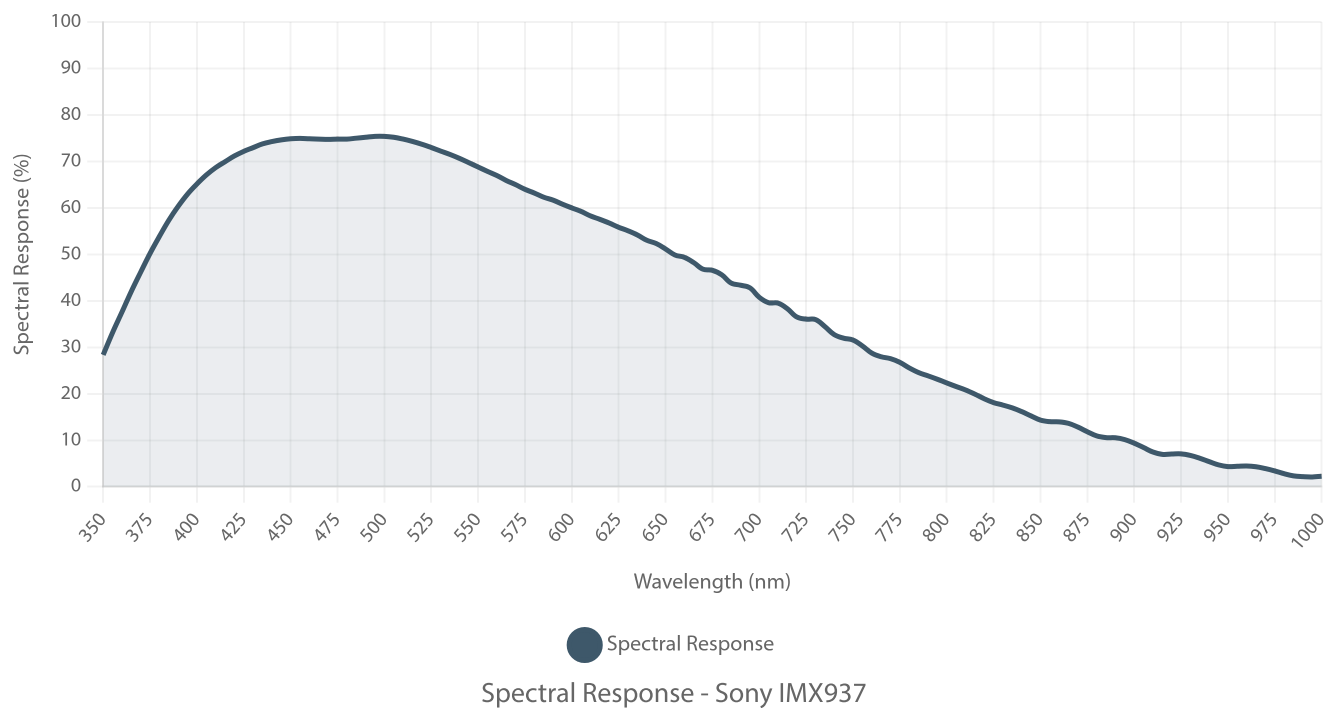
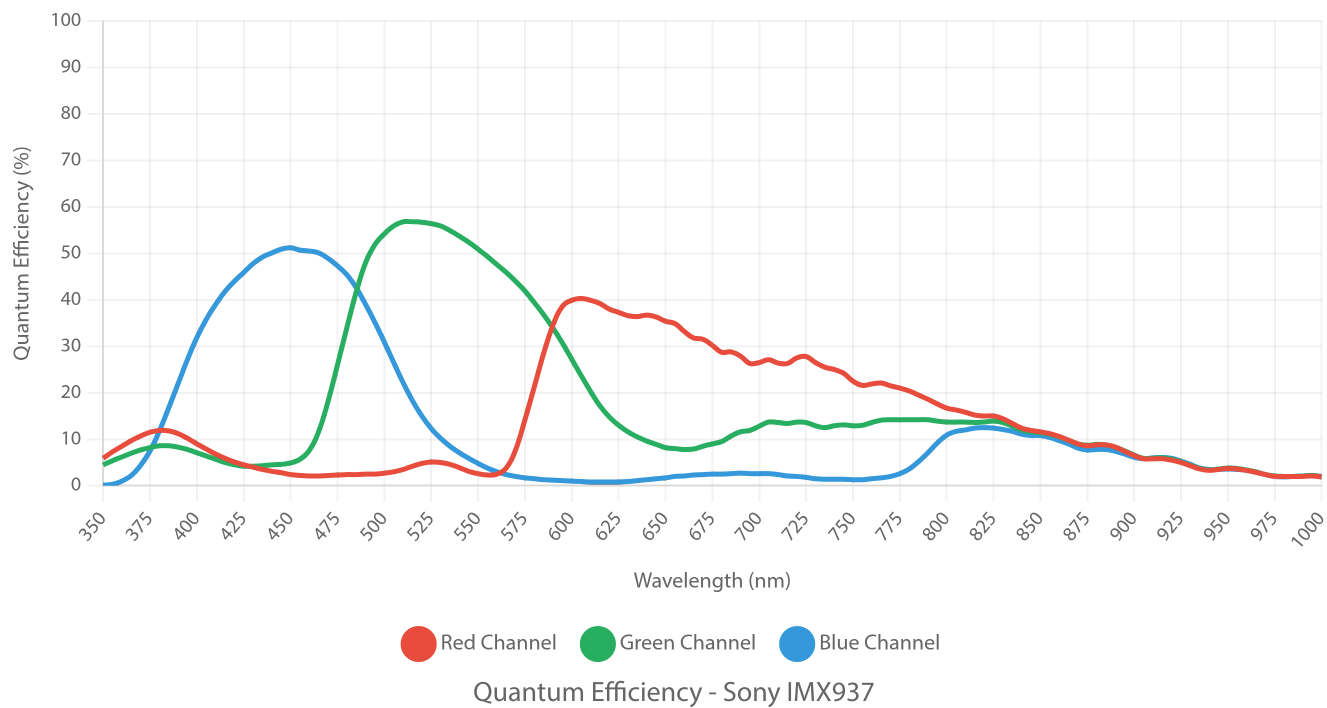
Specifications

Sensor	Sony IMX937
Resolution	10240 x 10240
Megapixels	104.9MP
Sensor Type	39.7mm CMOS (2.5)
Max Frame Rate	29fps (8-bit) 19fps (10-bit) 19fps (12-bit)
Cell Size	2.74 x 2.74µm
Standard Mount	M60 Mount, RF Mount, EF/F Mount
Shutter	Global
Bit Depth	8, 10, 12-bit
GPIO / Triggering	3 in, 3 out, Software, External (Pulse or Edge)
Interface	25GigE-SFP28
Exposure/Integration *	1µs - 1s
Dynamic Range	60 dB
Monochrome Modes	Mono8, Mono10, Mono10Packed, Mono12, Mono12Packed
Raw Modes	BayerRG8, BayerRG10, BayerRG10Packed, BayerRG12, BayerRG12Packed
Operating System	Windows (64-bit), Linux (64-bit)
Vision Standards	GigE Vision 3.0, RDMA, RoCEv2, GenICam
Regulatory	CE, FCC, RoHS, WEEE
Power Requirements	12W (12V)
Operating Temperature	-20°C to 50°C
Storage Temperature	-30°C to 60°C
Dimensions & Weight	97 x 66 x 73mm – 750g
Warranty	3 Years

Mechanical Drawing



Technical Details



Contact Us

Any Questions? Get in touch with us today and our team of imaging professionals will be pleased to assist you.

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