emergent
vision technologies

25GIGE BOLT

HB-5000-SB Series

HB-5000-SB-M Monochrome
HB-5000-SB-C Color

- Back-illuminated pixel structure

GiGE VISION GEN<i>CAM Pregius S

HB-5000-SB: 25GigE camera with Sony Pregius S IMX537

HB-5000-SB features the Sony Pregius S IMX537 sensor. The Sony Pregius S technology features back-illuminated pixel structure that delivers distortion-free, high imaging performance and miniaturization. At full resolution (2472 x 2064) you get 269 frames per second. Its ultra high-speed 25GigE SFP28 interface offers many benefits including low-cost accessories, low CPU overhead, low latency, low jitter, and accurate multi-camera synchronization using IEEE1588. In addition, 25GigE SFP28 offers three supported cabling options for cable lengths from 1M to 10KM.

Benefits

- High-speed 25GigE SFP28
- Back-illuminated pixel structure
- 25x the speed of GigE
- Ultra high data/frame rates
- GigE Vision® and GenICam™ compliant
- Optional IP67 housing

Applications

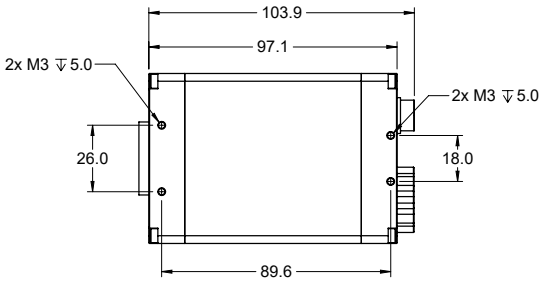
- Industrial Inspection
- Automation
- Intelligent Transportation Systems
- Logistics
- Virtual Reality
- Volumetric Capture
- Referee Assist

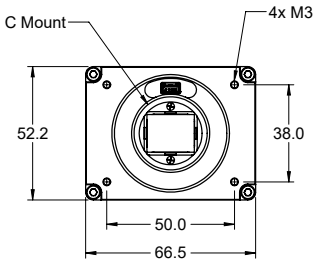
Specifications

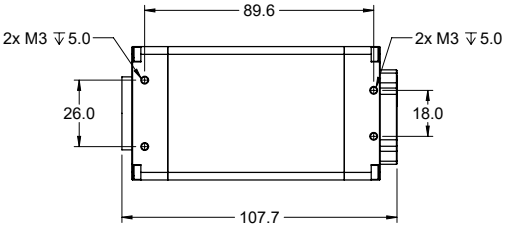
Sensor	IMX537
Resolution	2472 x 2064
Megapixels	5.1MP
Sensor Type	1/1.8” CMOS
Max Frame Rate	269fps
Cell Size	2.74x2.74µm
Standard Mount	C Mount
Shutter	Global
Bit Depth	8 & 12 bit
GPIO / Triggering	3 in, 3 out Software, External (Pulse or Edge)
Interface	25GigE SFP28
Exposure/Integration*	5µs-1s
Dynamic Range	74 dB
Monochrome Modes	Mono8, Mono12, Mono12Packed
Color Modes	RGB8, BGR8, YUV411, YUV422, YUV444
Raw Modes	BayerRG8, BayerRG12, BayerRG12Packed
Operating System	Win10 (64 bit), Linux (64 bit)
Compliance	CE, FCC, RoHS, WEEE, GigE Vision, GenICam
Power Requirements	9W, 12V
Operating Temperature	0C - 45C
Storage Temperature	-30C to +60C
Dimensions & Weight	97 x 66 x 52 - 500g
Warranty	2 Years

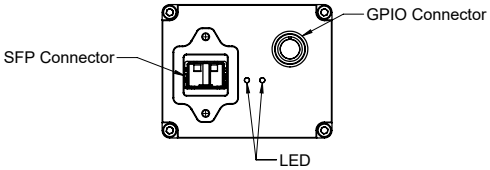
*all minimum exposure specs can vary from what is listed based on the limitations of each sensor as per notice from the manufacturer.

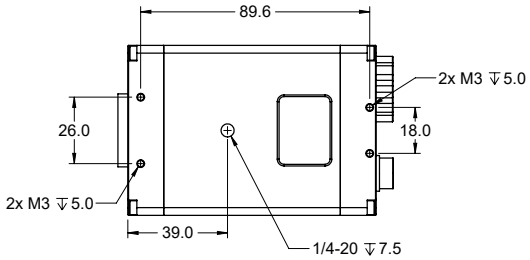
Mechanical drawings











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