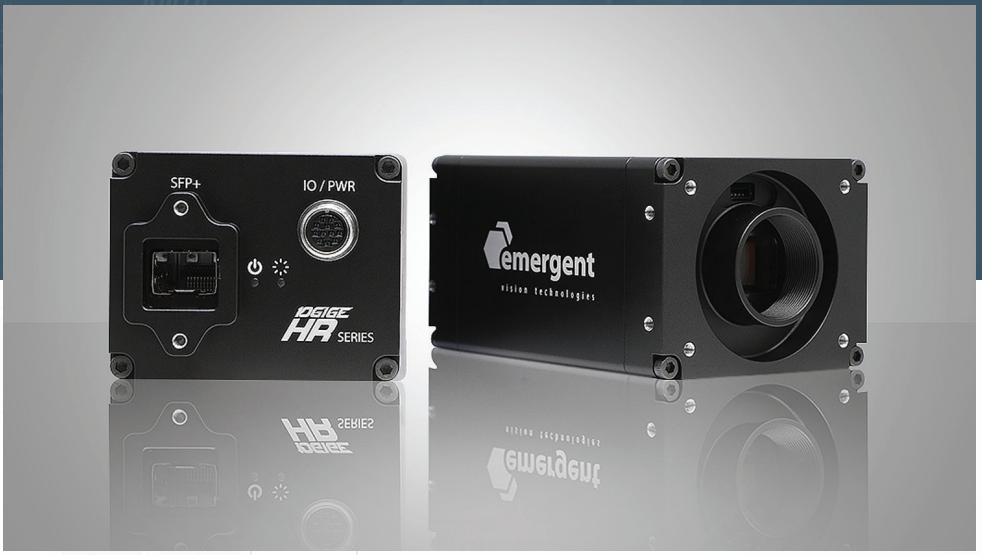
emergent
vision technologies

10GIGE HR SERIES

HR-7000-S Series

HR-7000-S-M Monochrome
HR-7000-S-C Color



GiGE VISION

GEN<i>CAM

7MP 10GigE camera with Sony Pregius IMX420 CMOS sensor

HR-7000-S features the Sony Pregius IMX420 sensor. Benefits include low noise, high picture quality, and high frame rates. At full resolution (3208 x 2200) you get up to 170 frames per second. Its ultra high-speed SFP+ 10GigE interface offers many benefits including low-cost accessories, low CPU overhead, low latency, low jitter, and accurate multi-camera synchronization using IEEE1588. In addition, SFP+ 10GigE offers three supported cabling options for cable lengths from 1M to 10KM.

Benefits

- High-speed SFP+ 10GigE interface
- 10x the speed of GigE
- Ultra high data/frame rates
- GigE Vision® and Genicam™ compliant
- Optional IP67 housing

Applications

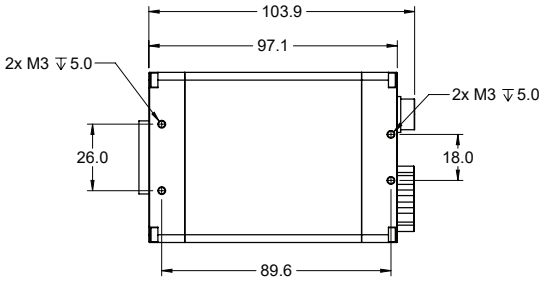
- Production lines
- Motion capture
- Food Sorting and Grading
- PCB Inspection
- Metrology
- Immersive 3D Content
- Finish Line Vision
- Referee Assist

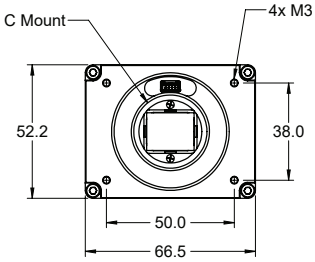
Specifications

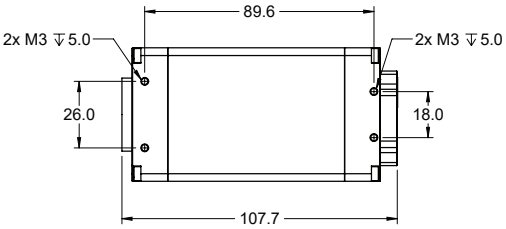
Sensor	Sony IMX420
Resolution	3208 x 2200
Megapixels	7.06 MP
Sensor Type	1.1”- 17.6mm CMOS
Max Frame Rate	170 fps @ 8-bit 110 fps @ 12-bit
Cell Size	4.5µm
Standard Mount	C Mount
Shutter	Global
Bit Depth	8 & 12 bit
GPIO / Triggering	3 in, 3 out Software, External (Pulse or Edge)
Interface	SFP+ 10GigE
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

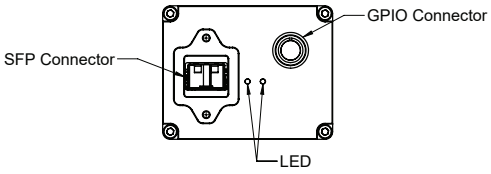
*all minimum exposure specs can vary from what is listed based on the limitations of each sensor as per notice from the manufacturer.

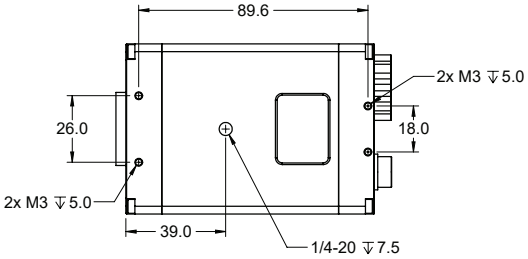
Mechanical drawings











Spectral Sensitivity