emergent vision technologies

HongKe 虹科

10GIGE HR SERIES

HR-50000 Series

HR-50000-M Monochrome
HR-50000-C Color

GiGE VISION

GEN<i>CAM

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50MP 10GigE Camera with CMV50000 CMOS Sensor

HR-50000 features the 35mm full frame optical format CMV50000 sensor by AMS. At full resolution (7920x6004), you get 23 frames per second at full resolution. Other benefits include low noise and high sensitivity. The HR-50000 series offers multi-camera synchronization at <1µs, low CPU overhead, excellent price-performance ratio, and fiber cable lengths from 1M to 10KM without the need of fiber converters or repeaters.

Benefits

- High-speed 10GigE SFP+ Interface
- 10x the speed of GigE
- GigE Vision® and Genicam™ compliant
- Optional IP67 housing

Applications

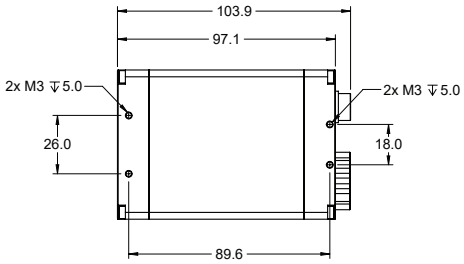
- Aerial surveillance
- 3D mapping
- 4D reconstruction
- Motion capture
- High-end Surveillance
- Transportation Logistics Imaging
- Immersive 3D Content
- Goal Line technology
- Finish Line Vision
- Referee Assist
- Sports, Broadcast, Entertainment
- Pharmaceutical Inspection

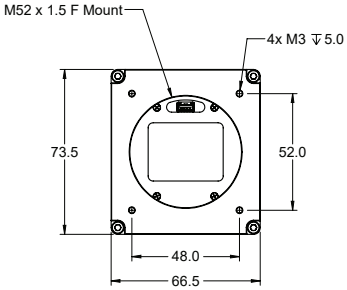
Specifications

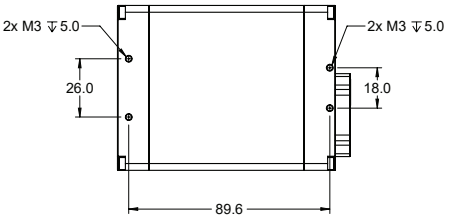
Sensor	CMV50000
Resolution	7920 x 6004
Megapixels	50 MP
Sensor Type	35mm CMOS
Max Frame Rate	23 fps
Cell Size	4.6µm square
Standard Mount	52mm, M52x1.5x12mm BFL, F-mount Available
Shutter	Global
Bit Depth	8 or 12 bits
GPIO / Triggering	3 in, 3 out Software, External (Pulse or Edge)
Interface	SFP+ 10GigE
Exposure/Integration*	100µs-1s
Dynamic Range	64 dB
Monochrome Modes	Mono8, Mono12, Mono12Packed
Color Modes	RGB8, BGR8, YUV411, YUV422, YUV444
Raw Modes	BayerBG8, BayerBG12, BayerBG12Packed
Operating System	Win7/8/10 (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 73- 600g
Warranty	2 Years

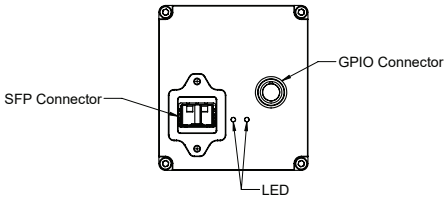
*all minimum exposure specs can vary from what is listed based on the limitations of each sensor as per notice from the manufacturer.

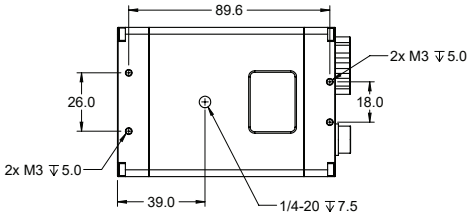
Mechanical drawings



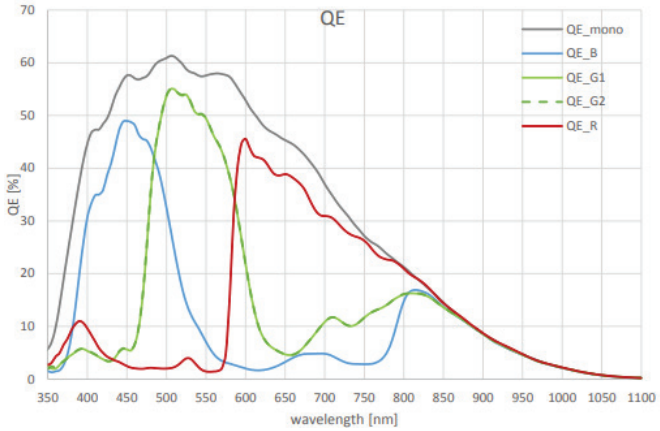








Spectral Sensitivity



如有疑问？

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