HE-25000-G

10GigE camera with Gpixel GMAX0505



Product Description

HE-25000-G features the Gpixel GMAX0505 CMOS sensor. Its 2.5 µm charge-domain global shutter pixel delivers more than 65% peak quantum efficiency in a 1.1" optical format. At full resolution (5120 x 5120) you get up to 45 frames per second. Its high-speed 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, 10GigE offers three supported cabling options for cable lengths from 1M to 10KM.

Key Benefits

- High-speed 10GigE
- GVSP, RDMA / RoCEv2, GigEVision® 3.0 firmware available. GenICam™ compliant.
- 2.5 µm charge-domain global shutter pixel, over 65% peak QE
- 10x the speed of GigE
- High data/frame rates
- Optional IP67 housing

Applications

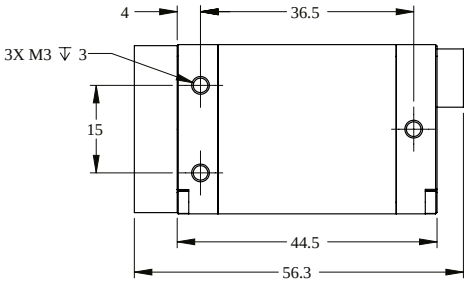
- Industrial Inspection
- Automation
- Semiconductor Manufacturing
- Logistics
- Virtual Reality

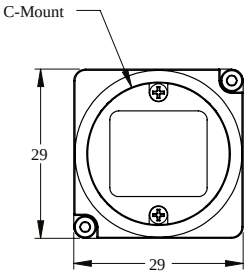
** All minimum exposure specs can vary from what is listed based on the limitations of each sensor as per notice from the manufacturer.*

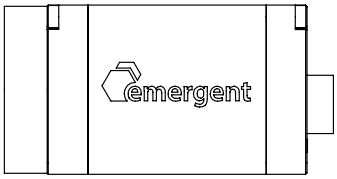
Specifications

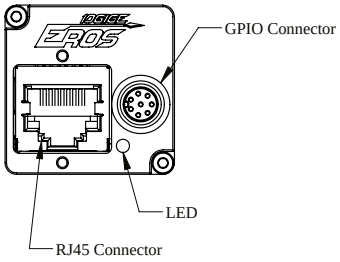
Sensor	Gpixel GMAX0505
Resolution	5120 x 5120
Megapixels	26.2MP
Sensor Type	18.1mm CMOS (1.1)
Max Frame Rate	45fps (8-bit) | 30fps (10-bit)
Cell Size	2.5 x 2.5µm
Lens Mount	C Mount, MFT Mount, RF Mount
Shutter	Global
Bit Depth	8, 10-bit
GPIO / Triggering	3 in, 2 out, Software, External (Pulse or Edge)
Interface	10GigE RJ45 10GigE LC FIBER SM (1310nm) / MM (850nm)
Exposure/Integration *	5µs - 1s
Dynamic Range	61.4 dB
Monochrome Modes	Mono8, Mono10, Mono10Packed
Raw Modes	BayerRG8, BayerRG10, BayerRG10Packed
Operating System	Windows (64-bit), Linux (64-bit)
Vision Standards	GigE Vision 3.0, GVSP, RDMA, RoCEv2, GenICam
Regulatory	CE, FCC, RoHS, WEEE
Power Requirements	4.8 W RJ45/PoE, 4 W at 12 V without PoE, 3 W fiber
Operating Temperature	-20°C to 50°C
Storage Temperature	-30°C to 60°C
Dimensions & Weight	44.5 x 29 x 29mm – 80g
Warranty	3 Years

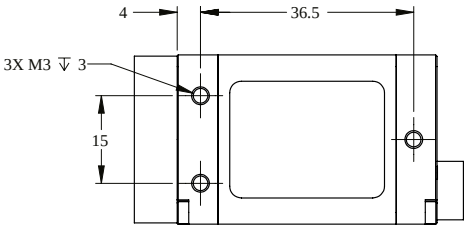
Mechanical Drawing



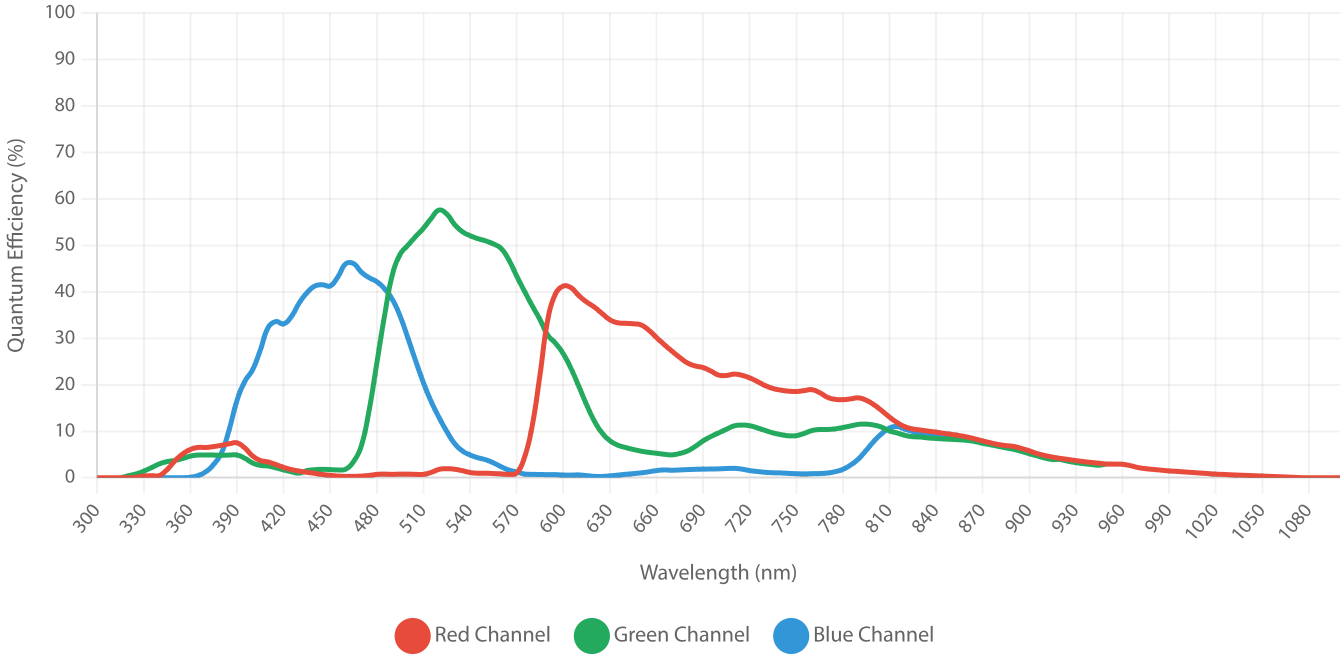




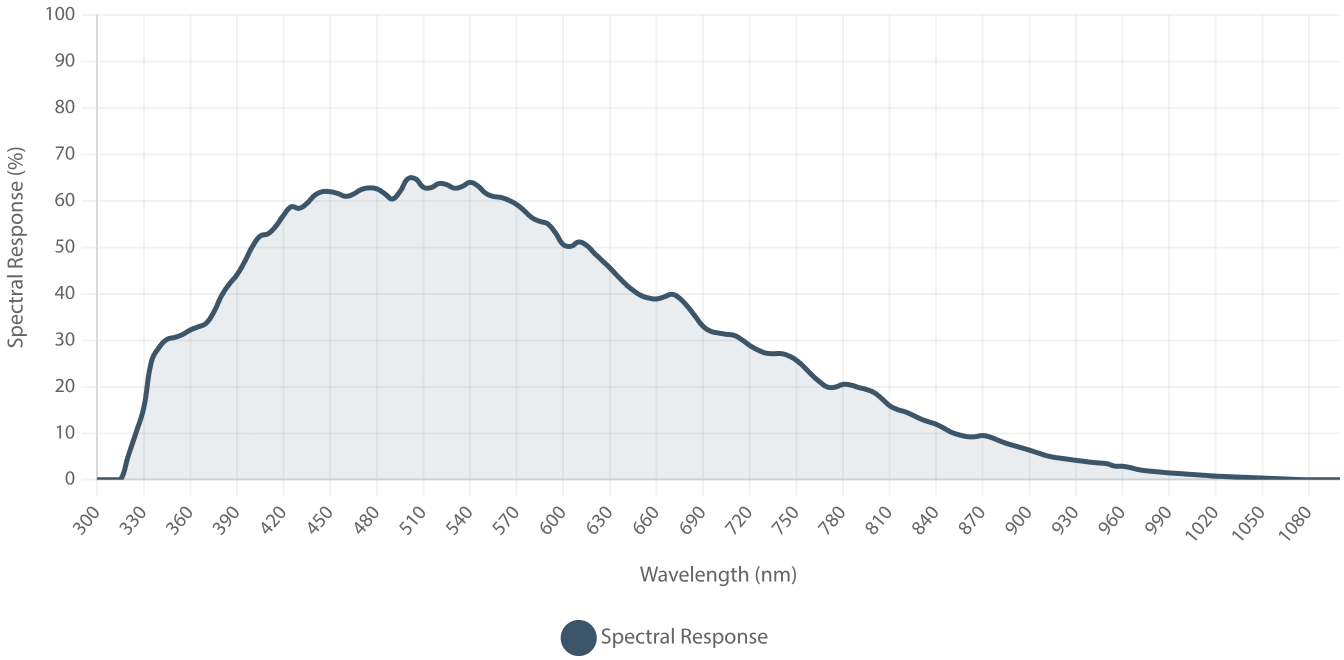




Technical Details



Quantum Efficiency - Gpixel GMAX0505



Spectral Response - Gpixel GMAX0505

Contact Us

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

Phone: 1-866-780-6082

Email: sales@emergentvisiontec.com