



# HB-25000-G Series

# HB-25000-G-M Monochrome HB-25000-G-C Color





GEN**<i>**CAM



# 26.21MP 25GigE camera with Gpixel GMAX0505 CMOS sensor

HB-25000-G features the Gpixel GMAX0505 CMOS sensor. Benefits include low noise, high dynamic range, and high frame rates. At full resolution (5120 x 5120), you get 75 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, SFP28 offers three supported cabling options for cable lengths from 1M to 10KM.

#### **Benefits**

- » High-speed SFP28 25GigE interface
- » 25x the speed of GigE
- » Ultra high data/frame rates
- » Simplified solution to CoaXPress
- » GigE Vision<sup>®</sup> and Genicam<sup>™</sup> compliant
- » Optional IP67 housing

# **Applications**

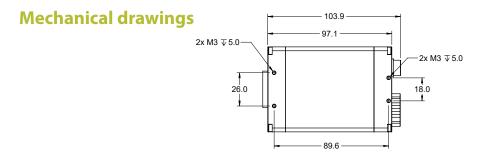
- » Virtual reality
- » Goal Line technology
- » 3D reconstruction
- » Volumetric capture
- » Motion capture
- » Immersive 3D Content
- » Finish Line Vision
- » Referee Assist

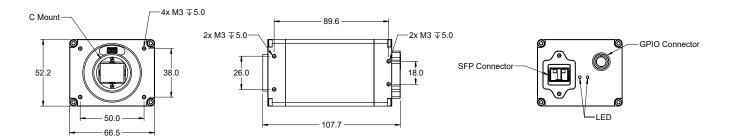
### **Specifications**

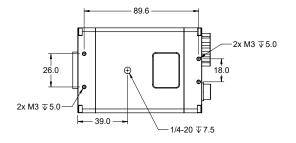
SensorGMAX0505Resolution5120 x 5120Megapixels6.21MPSensor Type1.1" CMOSMax Frame Rate5 fpsCell Size2.5µm x 2.5µmStandard MountGMountShutterGlobalBit Depth8 x 10 BitGPIO / Triggeringjin 3 out streams and streamsSproser AlgerSproser AlgerMonchrome ModesSP2 x 25GigEInterfaceSex 198Monchrome ModesSold Alger Alger AlgerMonchrome ModesSold Sanger Alger Alger AlgerAny ModesSay Sanger Alger Alger Alger Alger AlgerOperating SystemGiv101 (Linux (64 bit)Any ModesSystem Alger Alger Alger Alger Alger AlgerPower RequirementsSystem Alger Alge		
NameNameMegapixels26.21MPSensor Type1.1" CMOSMax Frame Rate75 fpsCell Size2.5µm x 2.5µmStandard MountC MountShutterGlobalBit Depth8 & 10 BitBfl OpthShy a sut software, External software, Ext	Sensor	GMAX0505
Sensor Type1.1" CMOSMax Frame Rate5 fpsCell Size2.5µm x 2.5µmStandard MountC MountShutterGlobalBit Depth8 & 10 BitGPIO / TriggeringJin, 3 out software, External pulse or Edge)InterfaceFP28-25GigEDynamic RangeSoldB (10bit)Konchrome ModesAlon8, Mono10, Mono10PackedGolor ModesSing Sager Gallo (11bit), Linux (64 bit)Raw ModesSinger Gallo (11bit), Linux (64 bit)Coperating SystemSystem Scheller, Singer Scheller, Sche	Resolution	5120 x 5120
No. ControlMax Frame Rate75 fpsCell Size2.5µm x 2.5µmStandard MountC MountShutterGlobalBit Depth8 & 10 BitBit DepthS & 10 BitGPIO / TriggeringSin, 3 out software, External (Pulse or Edge)InterfaceSFP28-25GigEExposure/Integration*540dB @ 10bitMonochrome ModesMono8, Mono10, Mono10PackedGolar ModesBayerGB8, BayerGB10, BayerGB10PackedQuerating SystemWin10 (64 bit), Linux (64 bit)Power Requirements9W, 12VPower RequirementsSOC to +60CStorage Temperature30C to +60CStorage Temperature57 x 66 x 52 500g	Megapixels	26.21MP
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Standard MountC MountShutterGlobalBit Depth8 & 10 BitBit Depth8 & 10 BitGPIO / Triggering3 in, 3 out software, External (Pulse or Edge)InterfaceSFP28-25GigEExposure/Integration*5µs- 1sDynamic Range60dB @ 10bitMonochrome ModesMono8, Mono10, Mono10PackedColor ModesBayerGB8, BayerGB10, BayerGB10PackedQperating SystemCE, FCC, RoHS, WEEE, GigE Vision, cenlCamPower Requirements9W, 12VOperating Temperature-30C to +60CStorage Temperature97 x 66 x 52- 500g	Max Frame Rate	75 fps
And Bit DepthGlobalBit Depth8 & 10 BitBit Depth8 & 10 BitGPIO / TriggeringSin 3 out software, External Pulse or EdgeInterfaceSFP28-25GigEExposure/Integration*5µS-15Dynamic Range>60dB @ 10bitMonochrome ModesMono8, Mono10, Mono10PackedRaw ModesBayerGB8, BayerGB10, BayerGB10PackedOperating SystemWin10 (64 bit), Linux (64 bit)Power Requirements9K, 12VStorage Temperature-3C to +6OCStorage Temperature-3C to +6OCDimensions & WeightStorage Temperature	Cell Size	2.5μm x 2.5μm
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Image: A seriesExposure/Integration*5µs-1sDynamic Range>60dB @ 10bitMonochrome ModesMono8, Mono10, Mono10PackedColor ModesRGB8, BGR8, YUV411, YUV422, YUV444Raw ModesBayerGB8, BayerGB10, BayerGB10PackedOperating SystemWin10 (64 bit), Linux (64 bit)ComplianceE, FCC, RoHS, WEEE, GigE Vision, GenICamPower Requirements9W, 12VOperating Temperature-30C to +60CStorage Temperature97 x 66 x 52- 500g	GPIO / Triggering	Software, External
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RadiationReferenceColor ModesRGB8, BGR8, YUV411, YUV422, YUV444Raw ModesBayerGB8, BayerGB10, BayerGB10PackedOperating SystemWin10 (64 bit), Linux (64 bit)ComplianceCE, FCC, RoHS, WEEE, GigE Vision, GenICamPower Requirements9W, 12VOperating TemperatureC- 45CStorage Temperature-30C to +60CDimensions & Weight97 x 66 x 52- 500g	Dynamic Range	>60dB @ 10bit
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Operating SystemWin10 (64 bit), Linux (64 bit)ComplianceCE, FCC, RoHS, WEEE, GigE Vision, GenICamPower Requirements9W, 12VOperating Temperature0C- 45CStorage Temperature-30C to +60CDimensions & Weight97 x 66 x 52- 500g	Color Modes	RGB8, BGR8, YUV411, YUV422, YUV444
ComplianceCE, FCC, RoHS, WEEE, GigE Vision, GenICamPower Requirements9W, 12VOperating Temperature0C- 45CStorage Temperature-30C to +60CDimensions & Weight97 x 66 x 52- 500g	Raw Modes	BayerGB8, BayerGB10, BayerGB10Packed
GenICamPower Requirements9W, 12VOperating Temperature0C- 45CStorage Temperature-30C to +60CDimensions & Weight97 x 66 x 52- 500g	Operating System	Win10 (64 bit), Linux (64 bit)
Operating TemperatureOC- 45CStorage Temperature-30C to +60CDimensions & Weight97 x 66 x 52- 500g	Compliance	
Storage Temperature-30C to +60CDimensions & Weight97 x 66 x 52- 500g	Power Requirements	9W, 12V
Dimensions & Weight 97 x 66 x 52- 500g	Operating Temperature	0C- 45C
	Storage Temperature	-30C to +60C
Warranty 2 Years	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.

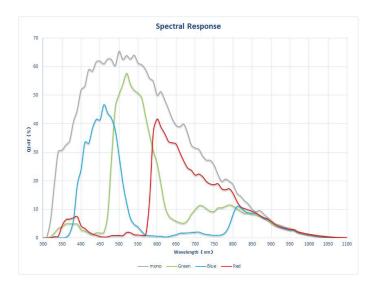








# **Spectral Sensitivity**





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