



# HB-9000-G Series

# HB-9000-G-M Monochrome HB-9000-G-C Color





GEN**<i>**CAM



# HB-9000-G: 25GigE camera with Gpixel GMAX2509

HB-9000-G features the Gpixel GMAX2509 sensor. Benefits include low noise, high dynamic range, and high frame rates. At full resolution (4200 x 2160) you get 290 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
- » 25x the speed of GigE
- » Ultra high data/frame rates
- » GigE Vision<sup>®</sup> and GenICam<sup>™</sup> compliant
- » Optional IP67 housing

# **Applications**

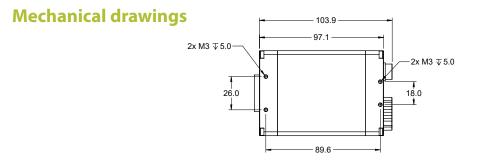
- » Immersive 3D Content
- » Finish Line Vision
- » Referee Assist

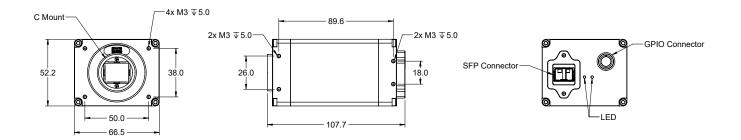
### **Specifications**

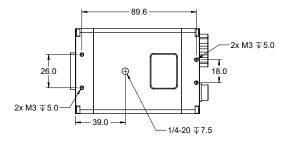
SensorGMAX2509Resolution4200 x 2160Magapixels9.07MPSensor Type2/3" CMOSMax Frame Rate90fpsCell Size2.5x2.5µmStandard MountC MountShutterGlobalBit Depth8.4 10 bitGPIO / TriggeringSing SP28Pinerface5.5x2.5µmMax Frame Rate9.5x2.5µmGroup / TriggeringSing Surger Starger		
NeteringMegapixels9.07MPSensor Type2/3" CMOSMax Frame Rate290fpsCell Size2.5x2.5µmStandard MountC MountShutterGlobalBit Depth8 & 10 bitGPIO / Triggering3in, 3 out software, External Pulse or Edge)Interface25GigE SFP28Konochrome ModesMono8, Mono10, Mono10PackedOperating SystemKaler GB8, BGR8, YUV411, YUV422, YUV444Raw ModesGayerGB8, BayerGB10, BayerGB10PackedOperating SystemSU, 12VPower Requirements9W, 12VOperating Temperature-3CC to +6OCStorage Temperature-3CC to +GOCDimensions & Weight-3C to +6OC	Sensor	GMAX2509
No. 1Sensor Type2/3" CMOSMax Frame Rate290fpsCell Size2.5x2.5µmStandard MountC MountShutterGlobalBit Depth8 & 10 bitGPIO / Triggering3in, 3 out software, External Pulse or Edge)Interface25GigE SFP28Exposure/Integration*5HotBall (Strigger)Monochrome ModesMonos, Mono10, Mono10PackedColor ModesRG88, BGR8, YUV411, YUV422, YUV444Raw ModesBayerGB8, BayerGB10, BayerGB10PackedOperating SystemGL, FCC, RoHS, WEEE, GigE Vision, cenCamPower Requirements9W, 12VOperating Temperature3Ct ot +60CStorage Temperature67 × 65 × 25 × 500g	Resolution	4200 x 2160
Nax Frame Rate290fpsMax Frame Rate290fpsCell Size2.5x2.5µmStandard MountC MountShutterGlobalBit Depth8 & 10 bitBit Depth8 & 10 bitGPIO / TriggeringSin, 3 out software, External (Pulse or Edge)Interface25GigE SFP28Exposure/Integration*5HotBell OthMonochrome ModesMono8, Mono10, Mono10PackedRaw ModesBayerGB8, BayerGB10, BayerGB10PackedOperating SystemGL, FCC, RoHS, WEEE, GigE Vision, cenlCamPower Requirements9W, 12VOperating Temperature30C to +60CStorage Temperature30Z to +60CDimensions & Weight97 x 66 x 25 - 500g	Megapixels	9.07MP
Cell SizeJ. Sx2.5μmStandard MountC MountShutterGlobalBit Depth8 & 10 bitGPl0 / TriggeringJin 3 out software, External (Pulse or Edge)Interface25GigE SFP28Exposure/Integration*Jine3 (Mono10 Mono10 Packed)Monochrome ModesMono8, Mono10, Mono10Packed)Raw ModesBayerGB8, BayerGB10, BayerGB10, Packed)Operating SystemVin10 (G4 bit), Linux (G4 bit)Power RequirementsSic FC2, RoHS, WEEE, GigE Vision, cen/CamNorage TemperatureJoc 145CStorage Temperature30C to +60CDimensions & WeightTo Kee Storage	Sensor Type	2/3" CMOS
Standard MountC MountShutterGlobalBit Depth8 & 10 bitBit Depth8 & 10 bitGPIO / TriggeringJin, 3 out software, External (Pulse or Edge)Interface25GigE SFP28Exposure/Integration*5µ-1sDynamic Range60dB @ 10bitMonochrome ModesMono8, Mono10, Mono10PackedRaw ModesBayerGB8, BayerGB10, BayerGB10PackedOperating SystemCE, FCC, RoHS, WEEE, GigE Vision, ceniCamPower Requirements9W, 12VOperating Temperature-30C to +60CStorage Temperature97 x 66 x 52 - 500g	Max Frame Rate	290fps
ShutterGlobalBit Depth8 & 10 bitBit Depth8 & 10 bitGPIO / TriggeringJin 3 out software, External pulse or Edge)Interface5GigE SFP28Exposure/Integration*Jus-1sOynamic Range>60dB @ 10bitMonochrome ModesMonos, Mono10, Mono10PackedRaw ModesBayerGB8, BQR8, YUV411, YUV422, YUV444Operating SystemWin10 (64 bit), Linux (64 bit)Power Requirements9W, 12VPower RequirementsOyn 12VStorage Temperature3OC to +6OCDimensions & WeingenDy 2 S S S S S S S S S S S S S S S S S S	Cell Size	2.5x2.5µm
Bit Depth8 & 10 bitBit Depth8 & 10 bitGPIO / TriggeringJin 3 out software, External (Pulse or Edge)Interface25GigE SFP28Exposure/Integration*5µs-1sDynamic Range60dB @ 10bitMonochrome ModesMono8, Mono10, Mono10PackedColor ModesRG88, BGR8, YUV411, YUV422, YUV444Raw ModesBayerGB8, BayerGB10, BayerGB10PackedOperating SystemVin10 (64 bit), Linux (64 bit)Power Requirements9%, 12VStorage Temperature-30C to +60CDimensions & Weight97 x 66 x 52 - 500g	Standard Mount	C Mount
GPIO / TriggeringJin, 3 out software, External (Pulse or Edge)Interface25GigE SFP28Exposure/Integration*5µs-1sDynamic Range>60dB @ 10bitMonochrome ModesMono8, Mono10, Mono10PackedColor ModesRGB8, BGR8, YUV411, YUV422, YUV444Raw ModesBayerGB8, BayerGB10, BayerGB10PackedOperating SystemCE, FCC, RoHS, WEEE, GigE Vision, ceniCamPower Requirements9W, 12VOperating Temperature-30C to +60CStorage Temperature97 x 66 x 52 - 500g	Shutter	Global
Software, External (Pulse or Edge)Interface25GigE SFP28Exposure/Integration*5µs-1sDynamic Range>60dB @ 10bitMonochrome ModesMono8, Mono10, Mono10PackedColor ModesRGB8, BGR8, YUV411, YUV422, YUV444Raw ModesBayerGB8, BayerGB10, BayerGB10PackedOperating SystemVin10 (64 bit), Linux (64 bit)ComplianceSU, FCC, RoHS, WEEE, GigE Vision, GenICamPower Requirements9W, 12VOperating Temperature-30C to +60CStorage Temperature97 x 66 x 52 - 500g	Bit Depth	8 & 10 bit
Exposure/Integration*5µs-1sDynamic Range>60dB @ 10bitMonochrome ModesMono8, Mono10, Mono10PackedColor ModesRGB8, BGR8, YUV411, YUV422, YUV444Raw ModesBayerGB8, BayerGB10, BayerGB10PackedOperating SystemWin10 (64 bit), Linux (64 bit)ComplianceCE, FCC, RoHS, WEEE, GigE Vision, GenICamPower Requirements9W, 12VOperating Temperature-30C to +60CDimensions & Weight97 x 66 x 52 - 500g	GPIO / Triggering	Software, External
Dynamic Range>60dB @ 10bitMonochrome ModesMono8, Mono10, Mono10PackedColor ModesRGB8, BGR8, YUV411, YUV422, YUV444Raw ModesBayerGB8, BayerGB10, BayerGB10PackedOperating SystemWin10 (64 bit), Linux (64 bit)ComplianceCE, FCC, RoHS, WEEE, GigE Vision, GenICamPower Requirements9W, 12VOperating Temperature-30C to +60CStorage Temperature97 x 66 x 52 - 500g	Interface	25GigE SFP28
Nonochrome ModesMono8, Mono10, Mono10PackedColor ModesRGB8, BGR8, YUV411, YUV422, YUV444Raw ModesBayerGB8, BayerGB10, BayerGB10PackedOperating SystemWin10 (64 bit), Linux (64 bit)ComplianceCE, FCC, RoHS, WEEE, GigE Vision, GenICamPower Requirements9W, 12VOperating Temperature-30C to +60CStorage Temperature97 x 66 x 52 - 500g	Exposure/Integration*	5µs-1s
Ranker and a matrix intersection intersec	Dynamic Range	>60dB @ 10bit
Raw ModesBayerGB8, BayerGB10, BayerGB10PackedOperating SystemWin10 (64 bit), Linux (64 bit)ComplianceCE, FCC, RoHS, WEEE, GigE Vision, GenICamPower Requirements9W, 12VOperating TemperatureOC - 45CStorage Temperature-30C to +60CDimensions & Weight97 x 66 x 52 - 500g	Monochrome Modes	Mono8, Mono10, Mono10Packed
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
GenlCamPower 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.

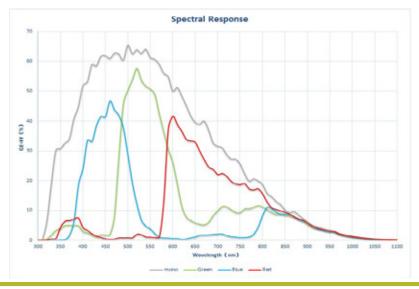








# **Spectral Sensitivity**





🔀 argo@argocorp.com

新大阪第5ドイビル 7 F **\$** 06-6151-9283