HX-21000-G Series

HX-21000-G-M Monochrome
HX-21000-G-C Color

21MP 50GigE camera with Gpixel Gsprint4521 CMOS sensor

HX-21000-G features the Gpixel Gsprint4521 CMOS sensor. At full resolution (5120 x 4096), you get 600 frames per second in 8-bit mode. Its ultra high-speed QSFP28 - 50GigE interface offers many benefits including low-cost accessories, low CPU overhead, low latency, low jitter, and accurate multi-camera synchronization using IEEE1588. In addition, QSFP28 - 50GigE offers three supported cabling options for cable lengths from 1M to 10KM.

HX-21000-G will be available Q1-2021.

Benefits

- » High-speed QSFP28 - 50GigE interface
- » 50x the speed of GigE
- » Ultra high data/frame rates
- » GigE Vision® and Genicam™ compliant
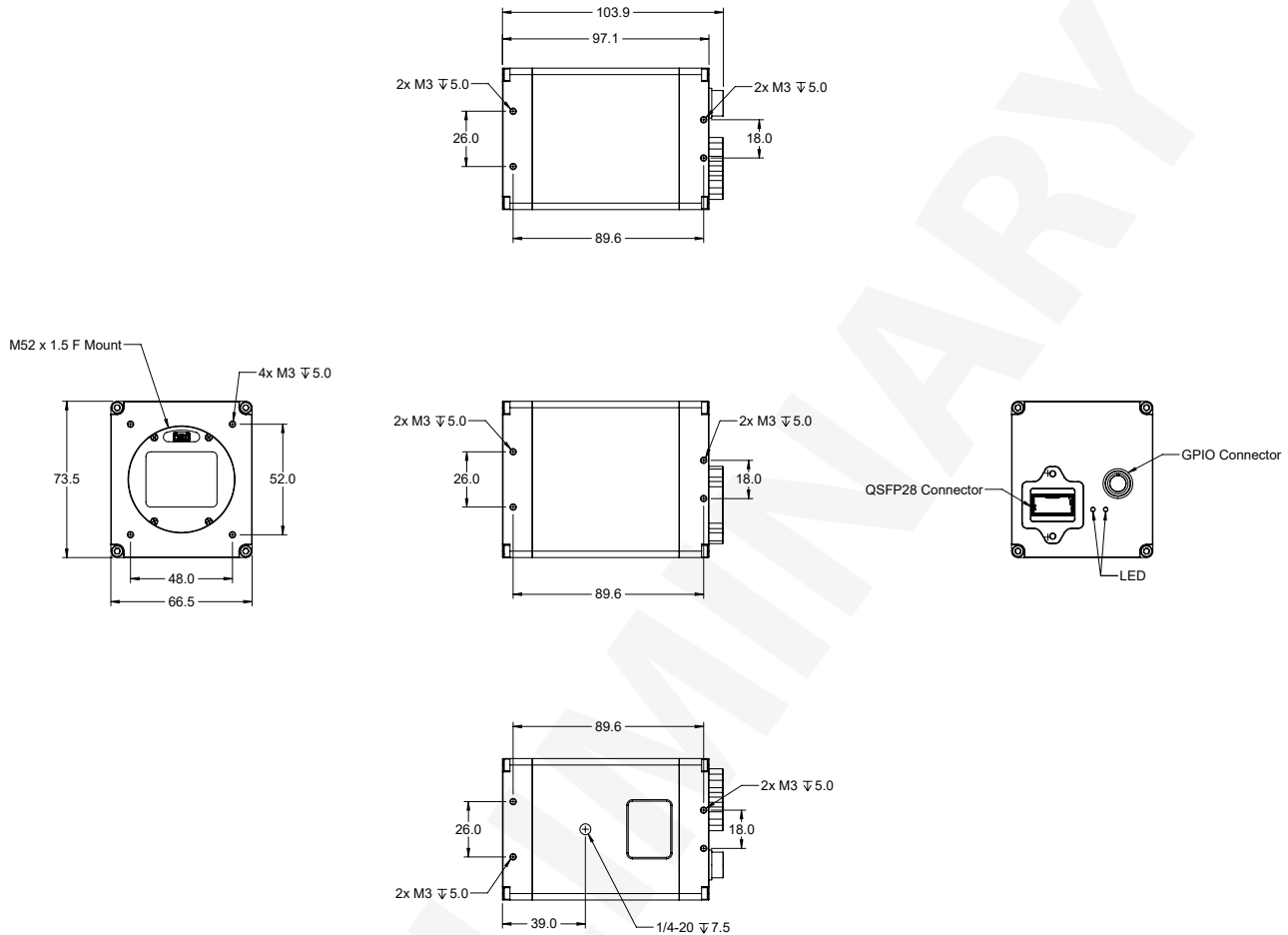- » Optional IP67 housing

Applications

- » Virtual reality
- » Goal Line technology
- » Volumetric capture
- » Motion capture
- » Immersive 3D Content
- » Finish Line Vision
- » Referee Assist
- » Flat Panel Inspection
- » Machine Vision

Specifications

Sensor	Gsprint4521
Resolution	5120 x 4096
Megapixels	21 MP
Sensor Type	29.5mm CMOS
Max Frame Rate	300fps @ 8bit 200fps @ 10bit
Cell Size	4.5μm x 4.5μm
Standard Mount	M52 Mount
Shutter	Global
Bit Depth	8 & 10 Bit
GPIO / Triggering	3 in, 3 out Software, External (Pulse or Edge)
Interface	QSFP28- 50GigE
Exposure/Integration*	5μs- 1s
Dynamic Range	>66db
Monochrome Modes	Mono8, Mono10, Mono10Packed
Color Modes	RGB8, BGR8, YUV411, YUV422, YUV444
Raw Modes	BayerGB8, BayerGB10, BayerGB10Packed
Operating System	Win10 (64 bit), Linux (64 bit)
Compliance	CE, FCC, RoHS, WEEE, GigE Vision, GenICam
Power Requirements	10W, 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

103.9
97.1
2x M3 ⤓ 5.0
2x M3 ⤓ 5.0
26.0
18.0
89.6

M52 x 1.5 F Mount
4x M3 ⤓ 5.0
73.5
52.0
48.0
66.5

2x M3 ⤓ 5.0
2x M3 ⤓ 5.0
26.0
18.0
89.6

QSFP28 Connector
GPIO Connector
LED

89.6
2x M3 ⤓ 5.0
26.0
18.0
2x M3 ⤓ 5.0
39.0
1/4-20 ⤓ 7.5

Any Questions?

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