emergent vision technologies

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10GIGE HT SERIES

HT-20000-SB Series

HT-20000-SB-M Monochrome
HT-20000-SB-C Color

Back-illuminated pixel structure

GiGE VISION GEN<i>CAM Pregius S

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Back-illuminated 20.35MP 10GigE camera with Sony Pregius S IMX531 CMOS sensor

HT-20000-SB features the Sony Pregius S IMX531 sensor. The Sony Pregius S technology features back-illuminated pixel structure that delivers distortion-free, high imaging performance and miniaturization. At full resolution (4504 x 4504) you get up to 61 frames per second. With its 10GBaseT interface, sleek smaller case and CAT6A connection, this camera has the familiarity of GigE but with 10x the speed. Using CAT6A cabling, you can get cable lengths from 1 meter up to 100 meters. The HT-20000-SB offers multi-camera synchronization at <1µs, low CPU overhead, and excellent price-performance ratio.

Benefits

» High-speed RJ45 10GBaseT interface
» 10x the speed of GigE
» GigE Vision® and Genicam™ compliant
» Back-illuminated pixel structure

Applications

» Industrial inspection
» Automation
» Intelligent Transportation Systems
» Logistics
» Virtual reality
» Volumetric capture
» Referee Assist

Specifications

Sensor	Sony IMX531
Resolution	4504 x 4504
Megapixels	20.28 MP
Sensor Type	1.1 CMOS
Max Frame Rate	61 fps @ 8-bit 40 fps @ 12-bit
Cell Size	2.74µm x 2.74µm
Standard Mount	C Mount
Shutter	Global
Bit Depth	8 & 12 bit
GPIO / Triggering	3 in, 3 out Software, External (Pulse or Edge)
Interface	RJ45 10GBaseT
Exposure/Integration*	5µs-1s
Dynamic Range	74 dB
Monochrome Modes	Mono8, Mono12, Mono12Packed
Color Modes	RGB8, BGR8, YUV411, YUV422, YUV444
Raw Modes	BayerRG8, BayerRG12, BayerRG12Packed
Operating System	Win10 (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	88 x 58 x 39- 275g
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.

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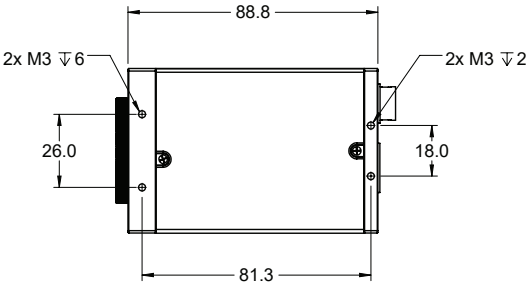
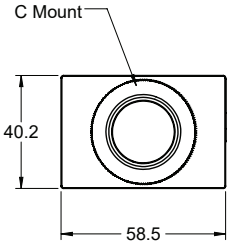
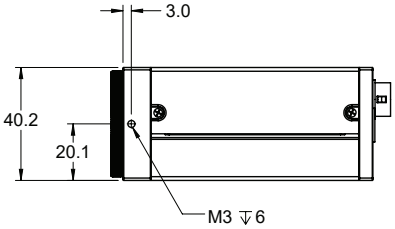
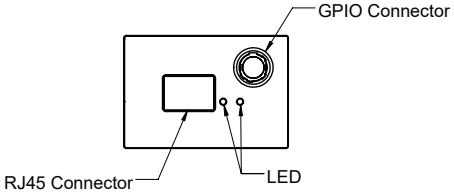
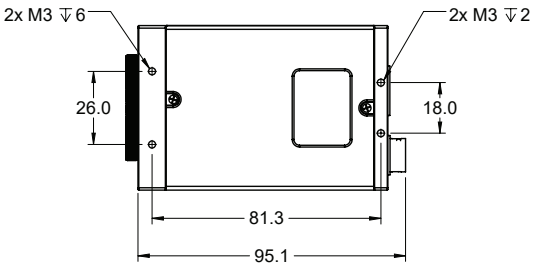
Mechanical drawings











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