

HR-20000-SB Series

HR-20000-SB-M Monochrome
HR-20000-SB-C Color

Back-illuminated pixel structure



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

HR-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. Its ultra high-speed SFP+ 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, SFP+ 10GigE offers three supported cabling options for cable lengths from 1M to 10KM.

Benefits

- » High-speed SFP+ 10GigE interface
- » Back-illuminated pixel structure
- » 10x the speed of GigE
- » Ultra high data/frame rates
- » GigE Vision® and Genicam™ compliant
- » Optional IP67 housing

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	SFP+ 10GigE
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	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.

Mechanical drawings

