

HB-5000-SB Series

HB-5000-SB-M Monochrome
HB-5000-SB-C Color

| Back-illuminated pixel structure



Back-illuminated 5.1MP 25GigE camera with Sony Pregius S IMX537 CMOS sensor

HB-5000-SB features the Sony Pregius S IMX537 sensor. The Sony Pregius S technology features back-illuminated pixel structure that delivers distortion-free, high imaging performance and miniaturization. At full resolution (2472 x 2064) you get 269 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
- » Back-illuminated pixel structure
- » 25x the speed of GigE
- » Ultra high data/frame rates
- » Simplified solution to CoaXPress
- » GigE Vision® and Genicam™ compliant
- » Optional IP67 housing

Applications

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

Specifications

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|-----------------------|--|
| Sensor | Sony IMX537 |
| Resolution | 2472 x 2064 |
| Megapixels | 5.1 MP |
| Sensor Type | 1/1.8 CMOS |
| Max Frame Rate | 269 fps |
| 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 | SFP28- 25GigE |
| 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

