

HB-8000-SB-U Series

HB-8000-SB-U

UltraViolet imaging capability

Back-illuminated pixel structure



UltraViolet imaging capable 8.1MP 25GigE camera with Sony Pregius S IMX487 CMOS sensor

HB-8000-SB-U features the UltraViolet (UV) Sony Pregius S IMX487 sensor. The Sony Pregius S technology features back-illuminated pixel structure that delivers distortion-free, high imaging performance, miniaturization and high level of UV sensitivity. At full resolution (2856 x 2848) you get 201 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
- » UV waveband sensor (200nm to 400nm)
- » 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

- » Semiconductor Manufacturing
- » Sorting Waste Plastics
- » High-Voltage Cables Inspection
- » Printing Inspection
- » High Resolution Microscopy
- » Luminescence Spectroscopy

Specifications

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|-----------------------|--|
| Sensor | Sony IMX487 |
| Resolution | 2856 x 2848 |
| Megapixels | 8.1 MP |
| Sensor Type | 2/3 CMOS |
| Max Frame Rate | 201 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 |
| 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

