

blaze-102

The blaze-102 Basler 3D camera is equipped with a Sony DepthSense IMX556 sensor.



Specifications

General Specifications

	blaze-102
Sensor Type	Sony IMX556 Area Scan CMOS (Time-of-Flight)
Measuring Method	Time-of-Flight
Resolution (H x V Pixels)	640 x 480 (full resolution)
Resolution	VGA



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Field of View (H x V)	67° x 51° To calculate the field of view in millimeters, see the Scan3dFocalLength topic.
Range	Short: 0.3–1.5 m Long: 0.3–10 m
Accuracy (typical)	±5 mm (0.5–5.5 m) (For more information, see Accuracy Test Conditions.)
Temporal Noise (typical)	<1.0 mm (up to 5.5 m) (For more information, see Accuracy Test Conditions.)
Frame Rate	20 fps (Default) 30 fps (FastMode)
Latency	<85 ms
Synchronization	Free run, PTP IEEE 1588, software trigger, hardware trigger
Illumination	VCSEL, 850 nm
Ambient Light Robustness	Ambient light: max. irradiance 12.8 W/m ² @ 920–970 nm (For more information, see Ambient Light Robustness Test Conditions.)
Multi-Camera Operation	Yes; via Multi-Camera Channel or PTP



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Communication Interface	Gigabit Ethernet (1000 Mbit/s)
Pixel Formats	Depth Map: Coord3D_C16, Mono16, Coord3D_ABC32f Intensity Image: Mono16 Confidence Map: Mono16, Confidence16 Point Cloud: Coord3D_ABC32f
Exposure Time Control	Programmable via the camera API
Camera Power Requirements	24 VDC ($\pm 10\%$) supplied via the camera's power connector <15 W mean @ 24 VDC <55 W peak @ 24 VDC
Rated Power According to UL 62368-1	max. 15 W
Rated Current According to UL 62368-1	max. 0.63 A @ 24 VDC
Cooling	Passive, no fan
Enclosure Rating	IP67 (EN60529)
Size (W x H x L)	99.6 x 80.6 x 63.1 mm
Weight	<690 g

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Conformity

Emission & Immunity: CE (includes RoHS), EAC, FCC, KC, EN61000-6-4, EN55022, EN61000-6-2

Shock & Vibration: EN60068-2-27, EN60068-2-6, EN60068-2-64

Laser Safety: Laser Class 1 (EN60825-1:2014)

Standards: GigE Vision, GenICam, GenTL

Certificates for your camera model

For more information, see the Compliance section of the Basler website.

Software

pylon Software Suite (version 6.2 or higher)

pylon Supplementary Package for blaze

Operating System

Windows 10

Windows 11

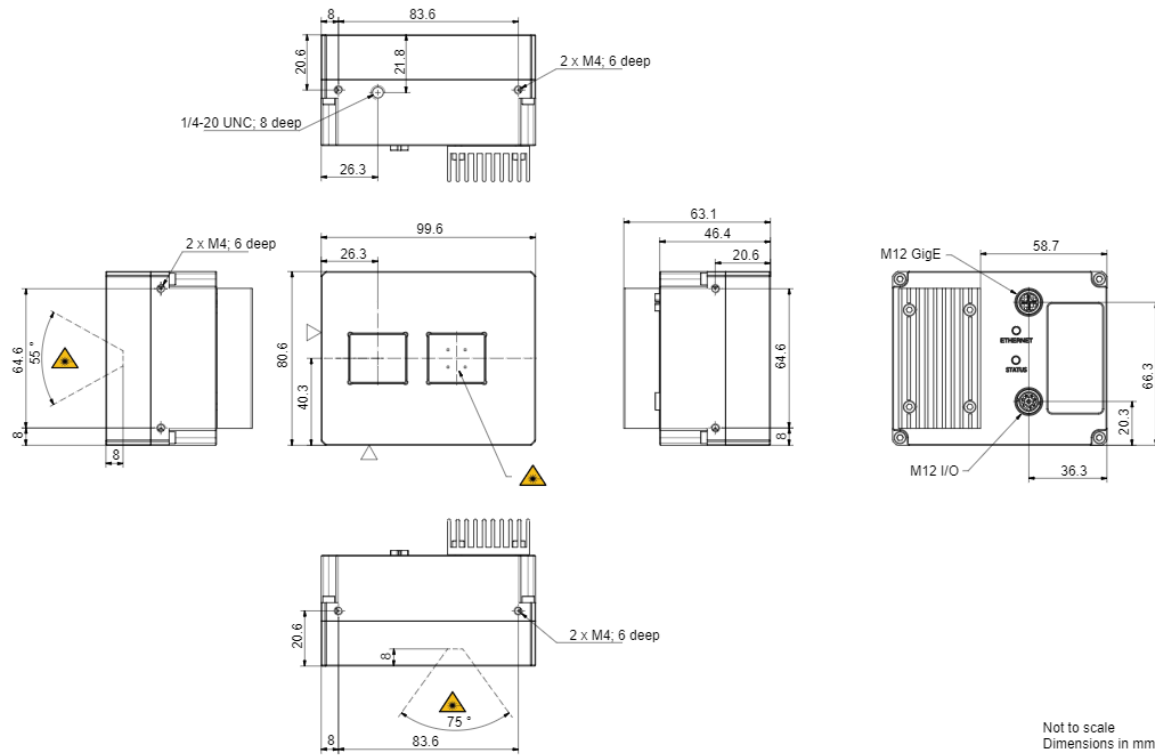
Linux x86_64 (tested under Ubuntu 18.04, 20.04, and 22.04)

Linux ARM

Programming
Languages

C++, Visual Basic, C#, Python

Drawing –



Please contact OEM Automatic for technical assistance.

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