M4 Series 3D Camera

V2.0 2026-4-16

MRDVS



MRDVS M4 Series, including the M4 and M4 Mega, comprises compact, high-performance, and cost-effective industrial-grade RGB-D cameras. Featuring an integrated Sony Continuous-Wave iToF camera, the series delivers RGB images and high-quality depth data over a range of 0.2 m to 5 m. The cameras perform internal spatial and temporal alignment between RGB and depth images, ensuring synchronized and aligned RGB-D data. In addition, they support the output of structured pallet recognition data via CAN.

Key Features

- Based on Sony Continuous-Wave **iToF** technology, delivering excellent point cloud flatness.
- Millimeter-level accuracy enables precise object detection and positioning.
- Excellent stability and industrial-grade performance (M4 Mega: IP67).
- Resistant to ambient light interference, operating reliably in complete darkness and under intense outdoor illumination of up to 100 Klux.

CE ISO CLASS 1 Laser product FC

Application examples

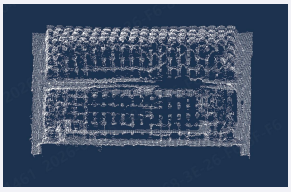


Pallet and Cage Docking

The ToF camera precisely locates pallets and material cages, while AI-based docking algorithms guide robots for accurate docking and stacking.

Application testing





400-025-6680 No. 7-902, China Artificial Intelligence Town, Hangzhou City Website: https://mrdvs.com/ More information: https://hub.mrdvs.cn/

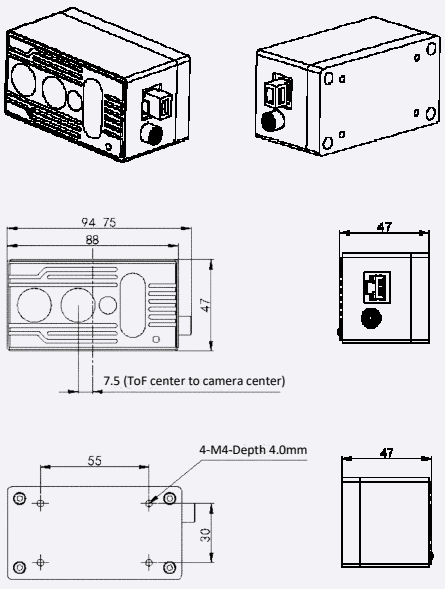
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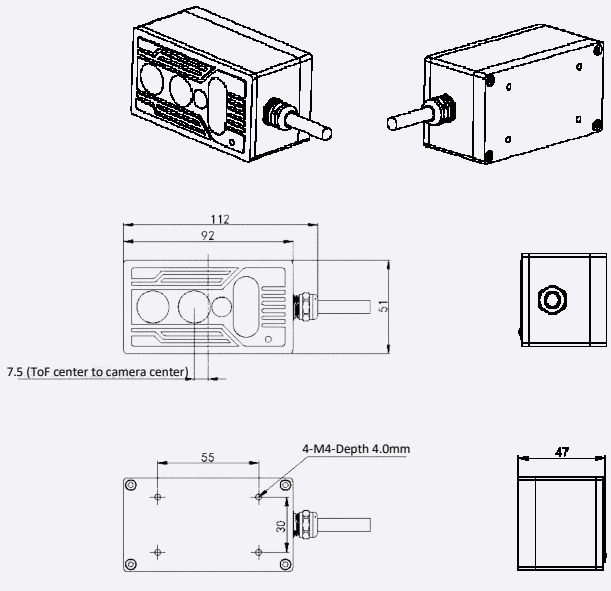
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Product Specifications

Model	M4	M4Mega
Laser Wavelength	940nm VCSEL	940nm VCSEL
Output	Depth & RGB & Amplitude Map	Depth & RGB & Amplitude Map
TOF Resolution/Frame Rate	640×480px @ Max. 15fps, typical 12fps	640×480px @ Max. 25fps, typical 15fps
TOF Field of View (H×V)	81° × 61°±3°	81° × 61° ± 3°
RGB Resolution/Frame Rate	1920×1080px @ Max. 15fps, typical 12fps	1280 × 960px @ Max. 25fps, typical 15fps
RGB Field of View (H×V)	88° × 56°±3°	86° × 55° ± 3°
Shutter mode	Rolling shutter	Global shutter
Detection Range	0.3~5m	0.2~5m
Measurement Accuracy	±4mm+0.25%*depth	±3mm+0.25%*depth
Average Power Consumption	6.2W @ 24VDC	6.8W @ 24VDC
Size	88mm×47mm×47mm	92mm×47mm×51mm
Weight	333g	449g
Power Supply	24 VDC / 2A	24 VDC / 2A
Communication Interfaces	Gigabit Ethernet/CAN	Gigabit Ethernet/CAN/4 port I/O
IP Rating	IP42	IP67
Operating Temperature	-20°C~60°C	-20°C~60°C
Storage Temperature	-40°C~85°C	-40°C~85°C
Software Support	C/C++/ROS SDK	C / C++ / ROS SDK
Supported Platforms	Windows7/8/10/11, Linux, Arm Linux	Windows7/8/10/11, Linux, Arm Linux
Operating Environment	Indoor/outdoor	Indoor/outdoor



M4



M4 Mega