MV-DLS600P-12

Galvanometer Laser 3D Camera

RoHS CE

Introduction

MV-DLS600P-12 galvanometer laser 3D camera adopts laser and high-precision galvanometer technology, combined with high-resolution color imaging system and built-in 3D image processing algorithm with high robustness to obtain the RGB-D image with sub-millimeter measurement accuracy.

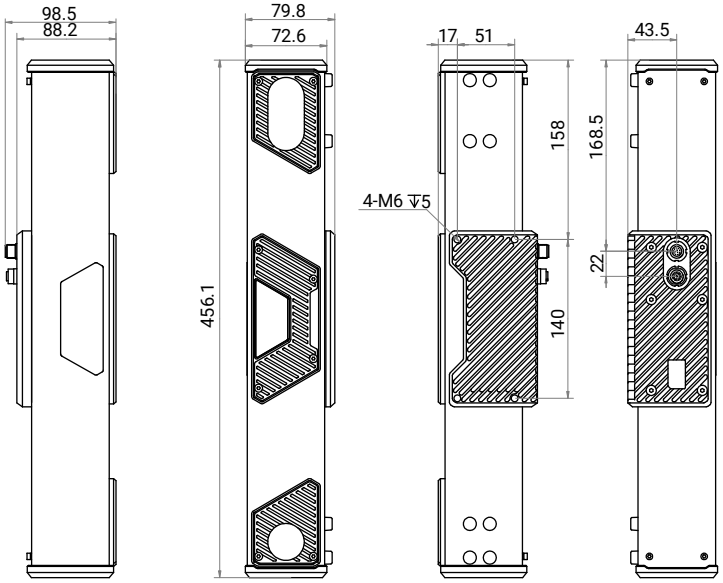
Available Model

MV-DLS600P-12

Applicable Industry

Workpiece loading and unloading, random bin picking, assembly guidance.

Dimension

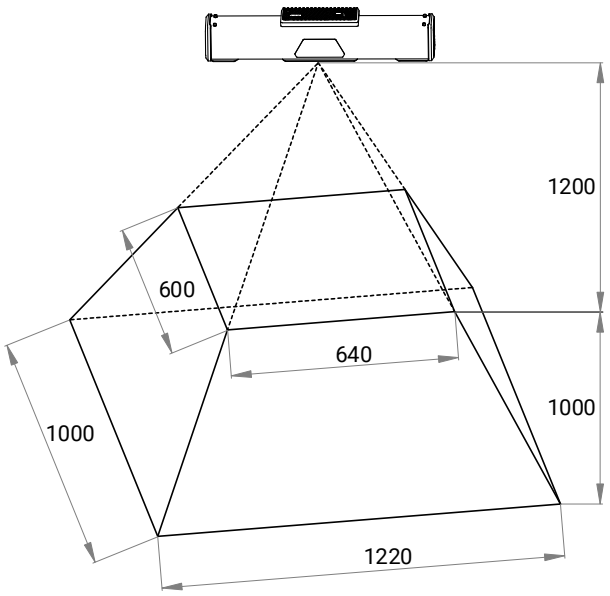


Unit: mm

Key Feature

- Customized optical system provides high-quality image.
- Supports high-uniformity laser module to provide a more detailed point cloud.
- Supports multi-core parallel processing with high precision and high image acquisition rate.
- Supports alignment between depth images and RGB images, convenient for secondary development.
- Adopts high-strength carbon fiber design with high stability.

Measurement Range Diagram



Unit: mm

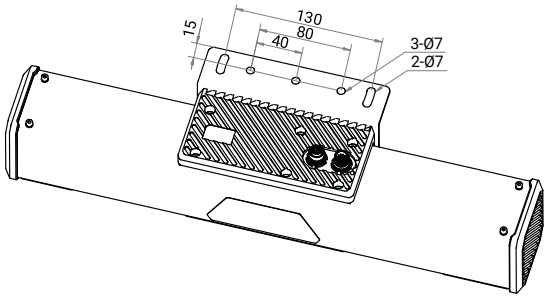
Specification

Model	MV-DLS600P-12
Performance	
Near field of view	640 mm × 600 mm @ 1200 mm
Typical field of view	1100 mm × 900 mm @ 1800 mm
Far field of view	1220 mm × 1000 mm @ 2200 mm
Clearance distance (CD)	1200 mm
Measurement range (MR)	1000 mm
Repeatability (Z-axis)*1	0.08 mm @ 1800 mm
VDI/VDE accuracy*2	0.15 mm @ 1800 mm
Resolution	RGB: 3200 × 1944 Depth: 1632 × 1264
Data acquisition time	0.4 s to 0.9 s
Image output delay	0.8 s to 1.5 s
Data type	Original image (mono and color images), depth image, RGB-D image
Electrical feature	
Data interface	Gigabit Ethernet (1000 Mbit/s)
Digital I/O	12-pin M12 interface provides power and I/O, including opto-isolated input × 3 (Line 0/3/6), opto-isolated output × 3 (Line 1/4/7)
Power supply	24 VDC
Power consumption	Typ. 15 W @ 24 VDC
Mechanical	
Dimension	456.1 mm × 79.8 mm × 98.5 mm (18.0" × 3.1" × 3.9")
Weight	Approx. 1.5 kg (3.3 lb.)
Ingress protection	IP65
Temperature	Working temperature: 0 °C to 45 °C (32 °F to 113 °F) Storage temperature: –30 °C to 80 °C (–22 °F to 176 °F)
Humidity	20% RH to 85% RH (no condensation)
Laser	
Laser safety class	Class 2
Wavelength	638 nm
General	
Client software	RobotPilot, HiViewer
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11
Certification	RoHS, CE

**1: This value is the standard deviation of 100 depth value measurements. The measurement target is a ceramic plate.*

**2: The measurement targets are double ceramic balls with a diameter of 30 mm and a ball spacing of 100 mm.*

Installation Axonometric Drawing



Unit: mm

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