

MV-DL2125-04P-R

Line Laser 3D Camera



Introduction

With built-in image process algorithm of wide dynamic range and high-accuracy measurement algorithm, MV-DL2125-04P-R line laser 3D camera can output accurate results of volume measurement in real time in complex environment. It adopts high-power laser module and image process technology to achieve less resource occupation, accurate measurement, and high efficiency.

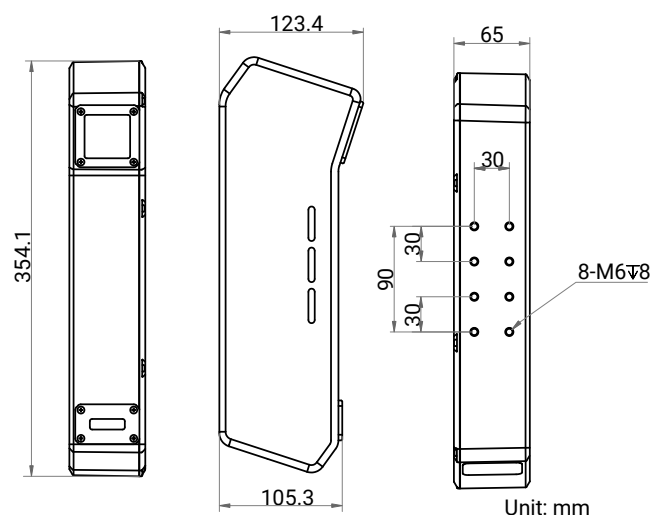
Available Model

MV-DL2125-04P-R

Applicable Industry

Volume measurement in logistics and warehouse, and positioning and guidance.

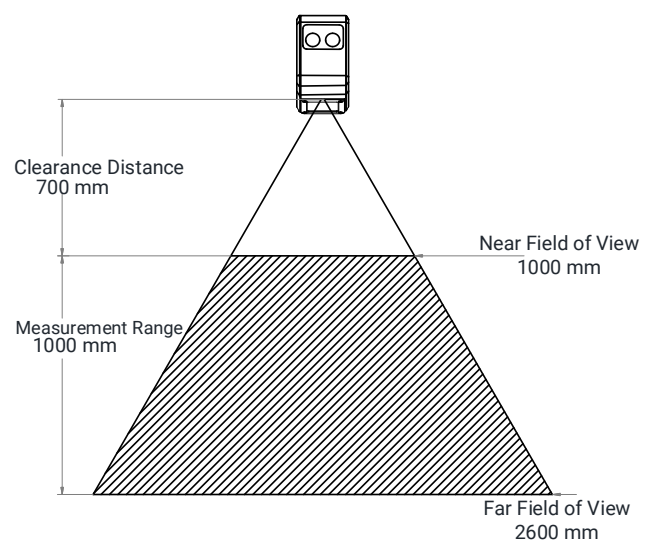
Dimension



Key Features

- Adopts wide dynamic range algorithm to accurately measure materials with high absorption or high reflectivity.
- Achieves detection speed up to 3 m/s and accuracy of ± 5 mm.
- Adopts high-power laser module with wide dynamic range.
- Adopts narrow band pass filter to suppress the interference.
- Stable performance with simultaneous exposure.
- Supports outputting data type of length/width/height, integral volume, point cloud data, and top coordinates.

Measurement Range Diagram



Specification

Model	MV-DL2125-04P-R
Performance	
Near field of view	1000 mm
Far field of view	2600 mm
Clearance distance (CD)	700 mm
Measurement range (MR)	1000 mm
Detection accuracy	± 5 mm (standard object)
Detection speed	3 m/s @ ± 5 mm detection accuracy
Scan frame rate	1140 fps @ 1 m depth measurement range
Data type	Point cloud data, length/width/height, integral volume, top coordinates, depth image, brightness image
Trigger mode	External trigger, encoder trigger (max. 15 kHz trigger signal supported)
Laser safety class	Class 3B
Electrical features	
Data interface	Gigabit Ethernet (1000 Mbit/s)
Digital I/O	12-pin M12 interface provides I/O, including opto-isolated input × 3 (Line 0/3/6), opto-isolated output × 3 (Line 1/4/7), RS-232 × 1.
Power supply	12 VDC to 24 VDC
Power consumption	Typ. 19.2 W @ 24 VDC
Mechanical	
Dimension	354.1 mm × 65 mm × 123.4 mm (13.9" × 2.6" × 4.9")
Weight	1.6 kg (3.5 lb.)
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)
General	
Client software	3DMVS, CodePlatform
Operating system	32/64-bit Windows 7/10
Certification	CE