MV-DL2025-04H-H

Line Laser 3D Camera

Introduction

With built-in image process algorithm of wide dynamic range and high-accuracy measurement algorithm, MV-DL2025-04H-H line laser 3D camera can output accurate results of volume measurement in real-time without occupying PC resources. It adopts high-power laser module and image process technology to achieve accurate measurement and high efficiency. It is applicable to volume measurement and positioning applications in logistics and warehouse.

Key Feature

- Adopts wide dynamic range algorithm to accurately measure materials of high-absorbance or high-reflection.
- 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 and laser.
- Supports outputting data type of length/width/height, integral volume, point cloud data, and location coordinates.

Available Model

MV-DL2025-04H-H

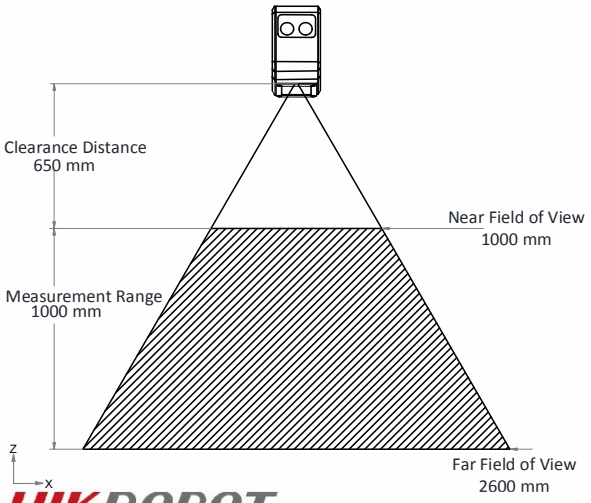
Applicable Industry

Logistics, warehouse, mechanical arm positioning and guidance, etc.

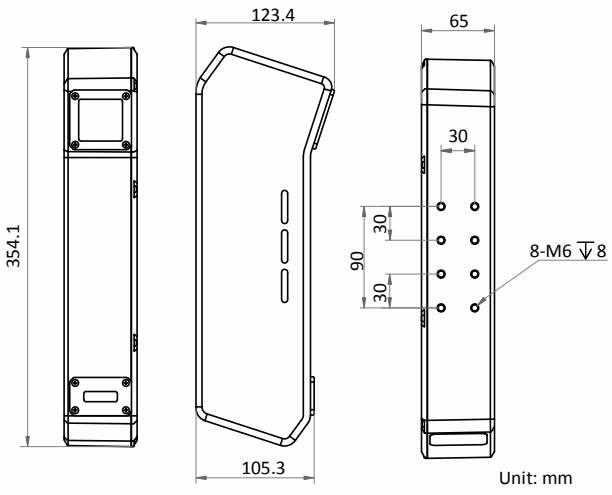
Specification

Model	MV-DL2025-04H-H
Performance	
Near field of view	1000 mm
Far field of view	2600 mm
Clearance distance (CD)	650 mm
Measurement range (MR)	1000 mm
Detection accuracy	± 5 mm (standard object)
Detection speed	3 m/s @±5 mm
Scan frame rate	600 fps @1 m^3 measurement range
Data type	Point cloud data, length/width/height, integral volume, top coordinates
Trigger mode	External trigger, encoder trigger (max. 15 KHz trigger signal supported)
Laser safety class	Class 3B
Electrical feature	
Data interface	Gigabit Ethernet
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
Power consumption	Typ. < 10.0 W@12VDC
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 % to 85 % RH, non-condensing
General	
Client software	3DMVS, CodePlatform
Operating system	32/64-bit Windows 7/10
Certification	CE, FCC

Measurement Range Diagram



Dimension



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