

MV-DB1300A V2.0

Multiple DOE Speckle Structured Light Stereo Camera



RoHS

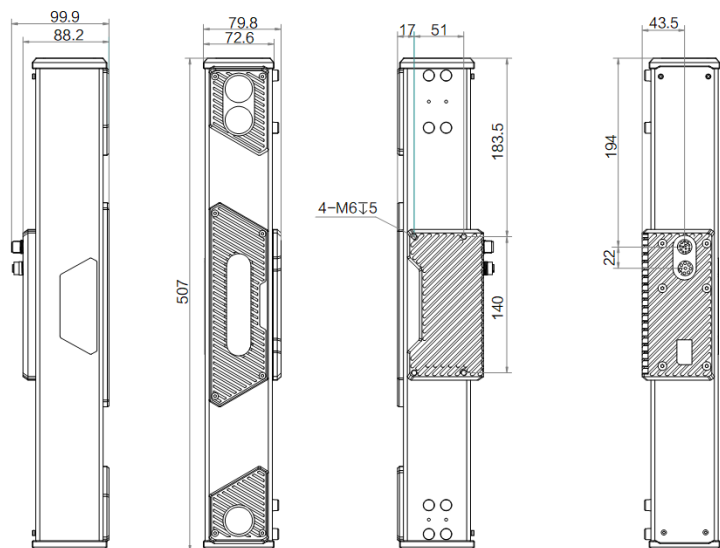
Introduction

MV-DB1300A V2.0 multiple DOE speckle structured light stereo camera adopts active binocular 3D imaging technology, and color camera to output RGB-D images. It has built-in high-precision deep fusion algorithm and WDR image process algorithm, and is applicable to unstacking and palletizing or volume measurement of large items.

Applicable Industry

Unstacking and palletizing, volume measurement of large items, etc.

Dimension



Unit: mm

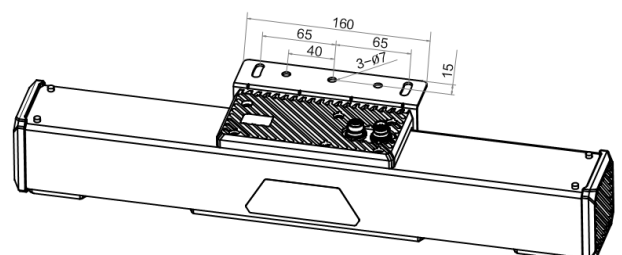
Available Model

MV-DB1300A V2.0

Key Feature

- Customized optical system with built-in high-precision deep fusion algorithm for higher image quality.
- Supports multiple exposure modes and adopts narrow-band filters for stronger environment adaptability.
- Supports synchronized output of RGB images and depth images for secondary development.
- Adopts high-strength carbon fiber design with IP65 rating, ensuring stability.
- Supports large field of view for applications such as unstacking and palletizing or volume measurement of large items.

Installation Axonometric Drawing



Unit:mm

Model	MV-DB1300A V2.0
Performance	
Near field of view	870 mm × 860 mm @ 1100 mm
Typical field of view	2000 mm × 1600 mm @ 2100 mm
Far field of view	3340 mm × 2500 mm @ 3200 mm
Clearance distance (CD)	1100 mm
Measurement range (MR)	2100 mm
Repeatability (Z-axis)	1.5 mm @ 2100 mm
Resolution	RGB: 3072 × 2048 Depth: 1536 × 1024
Data type	Original image (mono and color images), depth image, RGB-D image
Image output delay	1.2 s to 1.5 s
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. 10 W @ 24 VDC
Mechanical	
Dimension	507 mm × 79.8 mm × 99.9 mm (20.0" × 3.1" × 3.9")
Weight	Approx. 1.59 kg (3.5 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 3R
Wavelength	850 nm
General	
Client software	HiViewer, RobotPilot
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11
Certification	RoHS

Measurement Range Diagram

