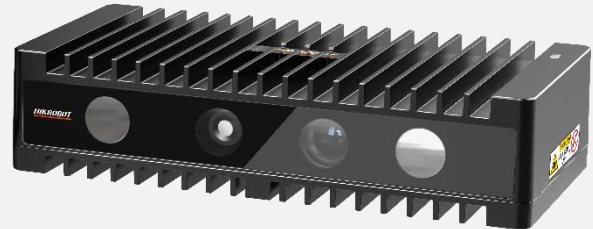
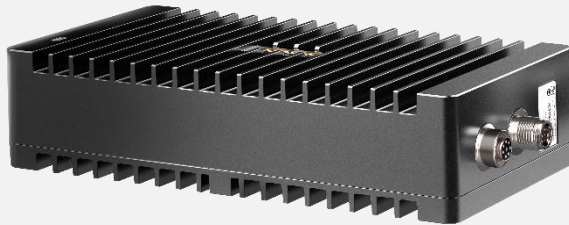


MV-DB500S-S

RGB-D Smart Camera



Introduction

MV-DB500S-S RGB-D smart camera adopts active binocular 3D imaging technology, and color camera to output high frame rate RGB-D images. It has built-in deep learning algorithm and 3D image process algorithm, and is applicable to automate the singulation of difficult-to-handle items.

Key Feature

- Adopts built-in deep learning algorithm to provide accurate instance segmentation and positioning results.
- High-efficient laser module and accurate exposure synchronization provide stable performance and wider dynamic range.
- Supports synchronized output of RGB images and depth images for secondary development.
- Adopts narrow band filters to have stronger anti-interference ability.
- Support one-click system calibration of single camera or multiple cameras.
- Ingress Protection (IP) 65.

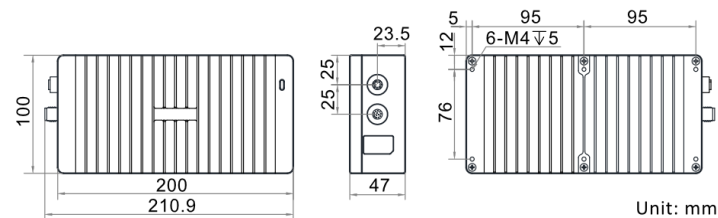
Available Model

MV-DB500S-S

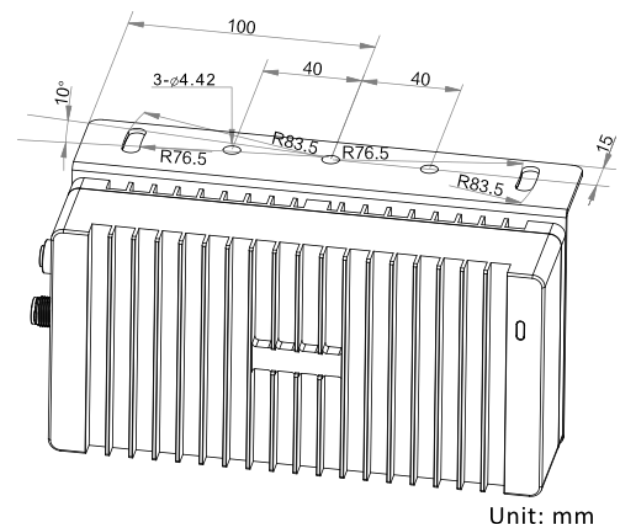
Applicable Industry

Singulation of items, etc.

Dimension



Installation Axonometric Drawing



Model	MV-DB500S-S
Performance	
Near field of view	580 mm × 470 mm
Far field of view	2500 mm × 1800 mm
Clearance distance (CD)	500 mm
Measurement range (MR)	1500 mm
Object detection range	50 mm × 50 mm × 10 mm to 1000 mm × 1000 mm × 1000 mm
Depth image detection accuracy	X, Y: 5 mm@ 1 m; 10 mm@ 2 m Z: 5 mm@ 1 m; 10 mm@ 2 m
Color image detection accuracy	X, Y: 2.6 mm@ 1 m; 5.5 mm@ 2 m
Scan frame rate	25 fps@ singulation mode
Data type	Original image (mono and color images), depth image, object posture information
Laser safety class	Class 1
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)
Power supply	12 VDC to 24 VDC
Power consumption	Avg. 5.5 W@24 VDC
Mechanical	
Dimension	200 mm × 47 mm × 100 mm (7.9" × 1.9" × 3.9")
Weight	Approx. 1 kg (2.2 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, non-condensing
General	
Client software	robotic parcel-feeding system, HiViewer
Operating system	32/64-bit Windows 7/10
Certification	KC

Measurement Range Diagram

