

OBJECT FINDER-HD

AB-CM-3D-OR-HD

ATOMBOTIX



Advanced Technical Principle



Active stereo technology for accurate imaging

Excellent Illumination



1 x Infrared laser ($\lambda = 940 \text{ nm}$)

Diverse Outputs



Depth, RGB, IR, and point cloud images

Variable Frame Rates



Multiple frame rate options available at different resolutions for both depth and RGB

Compact & Lightweight



Dimensions of 145 mm x 35 mm x 90 mm and weight of 620 g

Accurate Alignment



RGB - D Alignment for precise data combination

Model	AB-CM-3D-OR-HD
Performance Parameters	
Technical Principle	Active stereo
Illumination	1 x Infrared laser ($\lambda = 940 \text{ nm}$)
Latency of Image Acquisition	126 ms
Depth Sensor Resolution and Frame Rate	16 fps @ 1280 x 960 24 fps @ 640 x 480 24 fps @ 320 x 240
RGB Sensor Resolution and Frame Rate	6 fps @ 2560x1920 @ CSI BAYER12GBRG 4 fps @ 2560 x 1920 @ YUYV 7 fps @ 1920 x 1440 @ YUYV 16 fps @ 1280 x 960 @ YUYV 30 fps @ 640 x 480 @ YUYV

Essential Parameters

RGB - D Alignment	Support
Output Data	Depth, RGB, IR, point cloud images
Dimensions	145 mm x 35 mm x 90 mm
Net Weight	620 g
Data Connector	8-pin female connector
Power & Trigger Connector	M12 A-Code See Power & Trigger Connector for its pinout.
Hardware Trigger	2 trigger Input/Output; Input/Output 1: rising - edge trigger Input/Output 2: falling - edge trigger
Material	Aluminum alloy
IP Ratings	IP65
Thermal Dissipation	Passive

Electrical Parameters

Power Supply	DC 24V $\pm 10\%$;
Rated Power	Idle mode: 5 W Continuous mode: 9 W

Environmental Parameters

Working Temperature	- 10 °C - 50 °
Storage Temperature	- 20 °C - 55 °C

