

OBJECT FINDER-HD

AB-CM-3D-OR-HD

ATOMBOTIX



Advanced Technical Principle



Active stereo technology for accurate imaging.

Excellent Illumination



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

Variable Frame Rates



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

Accurate Alignment



RGB - D Alignment for precise data combination.

Diverse Outputs



Depth, RGB, IR, and point cloud images.

Compact & Lightweight



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

Model	AB-CM-3D-OR-HD
Technical Principle	Active stereo
Illumination	1 x Infrared laser ($\lambda = 940 \text{ nm}$)
Latency of Image Acquisition ¹	126 ms
Frame Rate ² @ Resolution (Depth)	16 fps @ 1280 x 960 24 fps @ 640 x 480 24 fps @ 320 x 240
Frame Rate ² @ Resolution @ Image Format (RGB)	6fps@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
RGB - D Alignment	√

Output Data	Depth, RGB, IR, point cloud images
Dimension (excluding interfaces)	145 mm x 35 mm x 90 mm
Weight	620 g
Data Connector	M12 X-Code, 8-pin, female connector Gigabit Ethernet
Power & Trigger Connector	M12 A-Code, 8-pin, male connector See Power & Trigger Connector for its pinout.
Power Supply	DC 24V \pm 10%; PoE (IEEE802.3 af/at)
Hardware Trigger	2 trigger input/output; Input/Output 1: rising - edge trigger Input/Output 2: falling - edge trigger
Power Consumption	Idle mode: 5 W Continuous mode: 9 W
Housing Material	Aluminum alloy
Ingress Protection	IP65
Thermal Dissipation	Passive
Temperature	Operating: - 10 °C ~ 50 ° CStorage: - 20 °C ~ 55 °C

