

Sphyrna Bivision

6000 IPBC Camera



The Sphyrna Bivision Series is a professional deep-sea stereo vision camera series developed for underwater observation, target measurement, visual inspection, and 3D perception in demanding subsea environments.

Deep-sea Stereo Vision Camera

Inspired by the distinctive vision and agility of the hammerhead shark, the Sphyrna Bivision Series integrates dual-camera stereo imaging, high-definition video capture, embedded motion sensing, and underwater measurement capability into a compact titanium-alloy housing. It is designed for ROVs, AUVs, HOVs, subsea engineering platforms, marine research systems, and deep-sea inspection applications.

- Full HD1920×1080@25fps
- 6000 Meters

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Product Performance	
Effective Measurement Distance	0.6–5 m
Measurement Accuracy	1 mm
Measurement Error	≤ 5 mm
Measurement Result	Measurement result images are automatically stored
Stereo Point Cloud Data Output	Supported
SLAM3 Visual Navigation Data Interface	Supported
Electrical Specifications	
Operating Voltage	24 VDC (12–32 VDC)
Power Consumption	< 30 W
Local Video Storage	Default 256 GB; automatic recording; storage capacity exceeds 40 hours in FHD mode
Real-Time Video Retrieval	Supported
Video Output Format	TCP/IP by default, available across the full series
Image Capture	Supported, 2-megapixel images
Optical Specifications	
Field of View	90°, left camera
Video Resolution	Full HD 1920 × 1080 @ 25 fps, left camera
Illumination	0.1 Lux, color
Mechanical Specifications	
Dimensions	Approx. 210 mm L × 100 mm Dia.
Weight	In air: approx. 4.2 kg; in water: approx. 2.5 kg
Housing Material	Titanium alloy
Connector	Micro 8-pin male underwater connector, MCBH8M
Operating Environment	
Operating Depth	≤ 6000 m

