



MARS UW

Underwater Motion Capture Cameras

AUV

ROV

USV



Applications

Marine Robotics

Vessel Design

Fishing Industry

Objects

AUV

Autonomous
Underwater Robots

ROV

Underwater Remotely
Operated Vehicles

USV

Unmanned
Surface Vessels



Bionic Robots

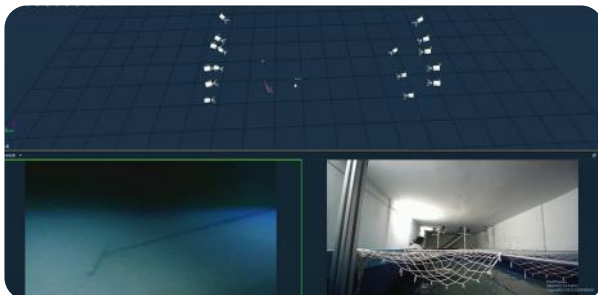
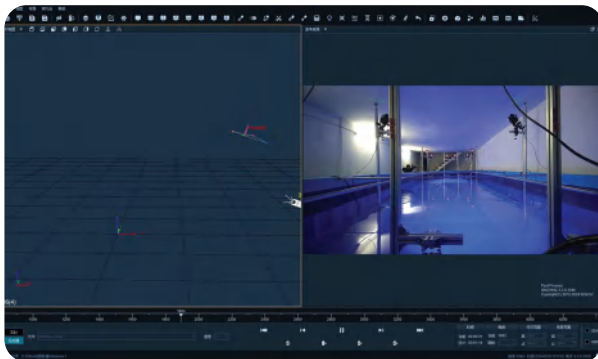


Flexible Objects



Submarines & Ships

Integrated Above & Underwater Capture



1 All-Encompassing Precision Positioning and Capture

Through space fusion technology, it provides precise positioning and target capture across all scenarios, enabling efficient collaboration across multiple environments above and below water. It allows simultaneous capture of underwater targets, surface objects, and above-water objects.

2 Flexible Above & Underwater Camera Integration

Our under water cameras function seamlessly both above and underwater. The Mars series supports mixed use across all models to meet diverse needs.


3 Seamless Cross-Medium Data Transfer

Seamless integration algorithms and position calibration technology ensure high cross-medium adaptability, guaranteeing the continuity and consistency of data transmission.

System Characteristics

 Real-time & high-speed underwater motion capture

 12DVC ultra-low voltage for better safety

 Compact body suitable in tight spaces

 Pressure tested to 50 m / 100 m

 Corrosion-resistant & waterproof housing



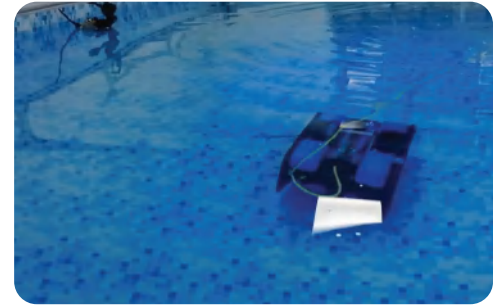
Case Studies



Tianjin Research Institute for Water
Transport Engineering.M.O.T.
Shipbuilding Engineering



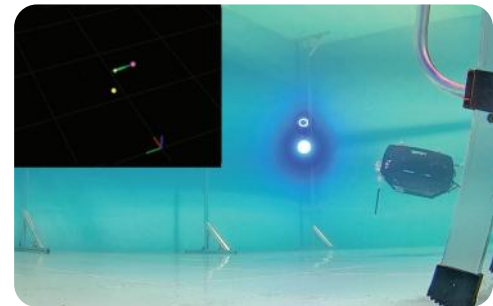
Shenzhen University
Bionic Fish Positioning
Weijie Gong



Harbin Institute of Technology, Shenzhen
AUV Positioning, Wenjie Lu



Dalian Maritime University
AUV Positioning
Yudong Luo




Dalian Maritime University
ROV Positioning
Minyi Xu

Underwater Cameras


Model	P/N	Pixels	Resolution	FPS	Latency	Accuracy	Capture Dist.	FOV	Depth
MARS 1.3HW UW	Mars1.3HW UW	1.3MP	1280×1024	240	4.0ms	±0.3mm	6m	95°×74°	100m
MARS 4H UW	Mars4H UW-50	4MP	2048×2048	180	5.2ms	±0.15mm	17m	52°×52°	50m
MARS 4HW UW	Mars4HW UW-6-50	4MP	2048×2048	180	5.2ms	±0.30mm	8m	90°×90°	50m
	Mars4HW UW-8-50	4MP	2048×2048	180	5.2ms	±0.25mm	10m	74°×74°	50m
MARS 18HW UW	Mars18HW UW-8-50	18MP	4508×4096	139	5.0ms	±0.15mm	10m	73°×67°	50m
MARS 26HW UW	Mars26HW UW-8-50	26MP	5120×5120	150	4.0ms	±0.1mm	8m	83°×83°	50m

* If you need customized cameras, please contact us.


Enhanced Data Transfer




SDK




VRPN




C++




Python




Matlab




Simulink




LabView




Raspberry Pi




ROS




Linux




Windows




Mac



Android



Kylin



PX4

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- 📍 WuHan Branch #B3-601,Wuda Airlines Phase 2,Donghu High-tech Economic Development, Wuhan,Hubei
- 📍 Shenzhen Branch A2102,Cloud Technology Building, Nanshan District, Shenzhen