

CHASING

CHASING X

Industrial-grade underwater ROV



Omnidirectional Anti-Current · Ultimate Control Precision

A Revolutionary Breakthrough in Marine Intelligent Equipment

World's First Smart Omnidirectional Current Resistance ROV



High Speed | Excellent Current-Resistance | Deep Submergence
Easy Control | Multiple add-ons

OctoDrive
Power Layout



Prime 4.5 Knots



Innovative
underwater e-PTZ



AI Host Platform



World's First AnchorX Smart
Omnidirectional Anti-Current System



Modular Design



SDK Open Platform



Industrial-grade underwater robot for an ultimate maneuverability

Smart Omnidirectional
Current Resistance

Precise control
in Turbulent Waters

Stable maneuvering
under Heavy Loads

Prime 4.5 Kts



4.5 knots forward speed

2 knots lateral speed

OctoDrive Power Layout

The newly innovative OctoDrive power system, featuring eight thrusters in a vector layout, provides high response speed and strong stability. This system allows for 360-degree full-range movement and rotation while maintaining a leading speed of 4.5 knots, making maneuvering precise and effortless.

The self-developed magnetic coupling thrusters are compact, powerful, and easy to maintain, preventing sanding and salt build-up, ensuring stable and reliable underwater operations in various environments.



World's First AnchorX Smart Omnidirectional Anti-Current System



Intelligently identify

Current direction and speed

Intelligently employ

Maximum anti-current direction

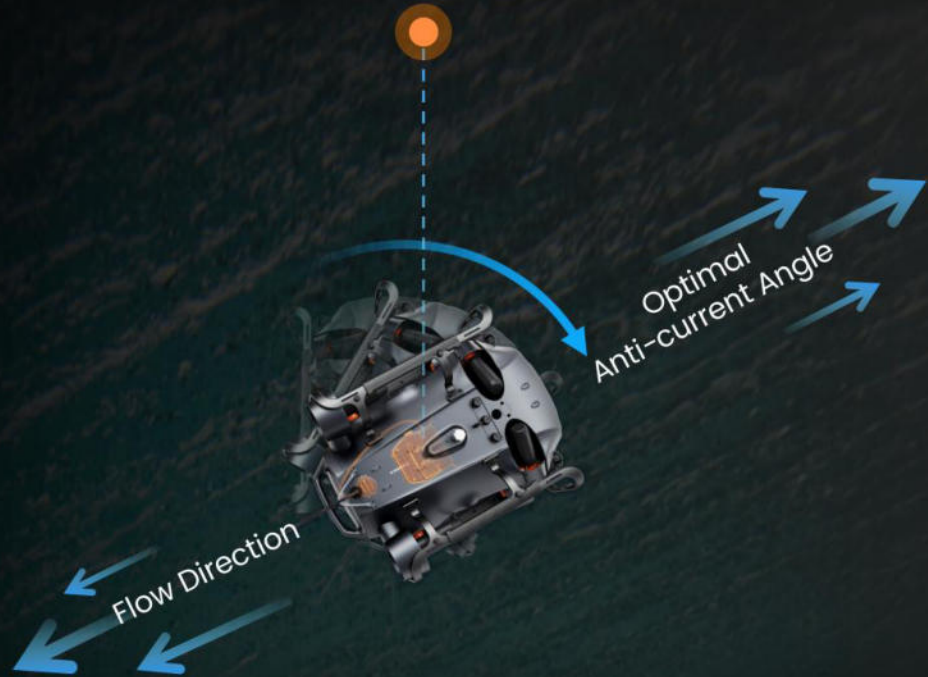
4.5 knots

Max currents resistance capability

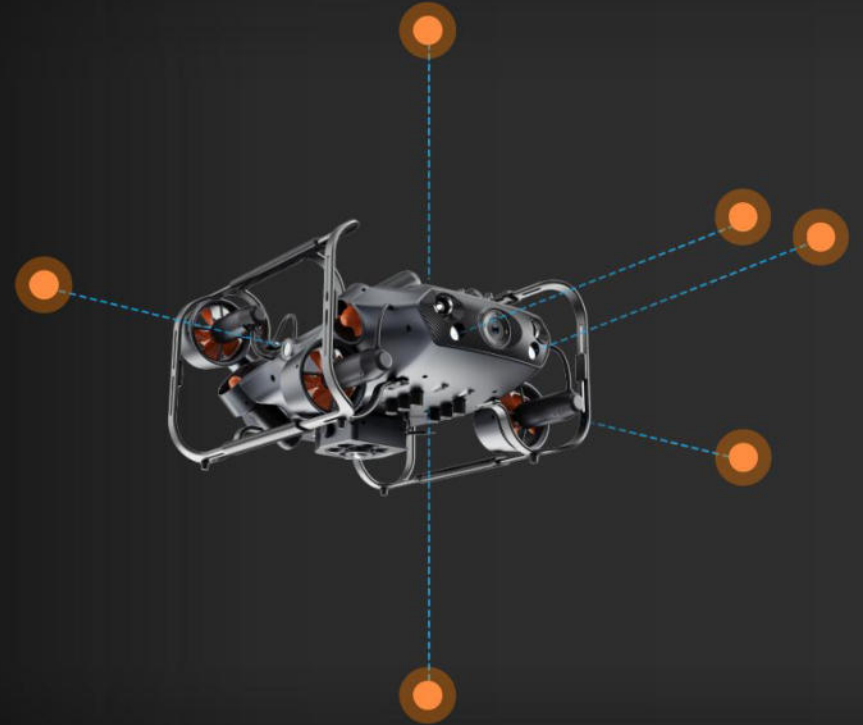
AnchorX

Smart Omnidirectional Anti-Current System

Target Observation



Fix Position Inspection



Fixed-distance Inspection

Innovative underwater e-PTZ for Stable Panoramic Shooting

Self-developed

Underwater electronic pan-tilt camera

180°

Hemispherical lens view

100°

Draggable framing screen

360°

One-click flipping 360° underwater filming

4K

HD image quality

Stable

Stable Vision Despite Position Changes

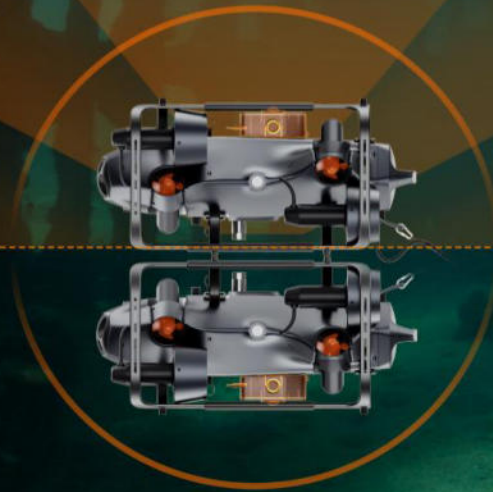
Combining the e-PTZ with the AnchorX Smart Omnidirectional Anti-Current System, When the CHASING X changes its posture, the e-PTZ camera automatically corrects its level, ensuring the target remains in focus and the image stable.



Comprehensive

**360° all-around shooting with one-click flipping;
180° hemispherical view, the framing screen is adjustable.**

Through CHASING WSRC, users can manually adjust the framing screen during shooting. The stored panoramic data supports dragging the image to view details of other positions in the scene.



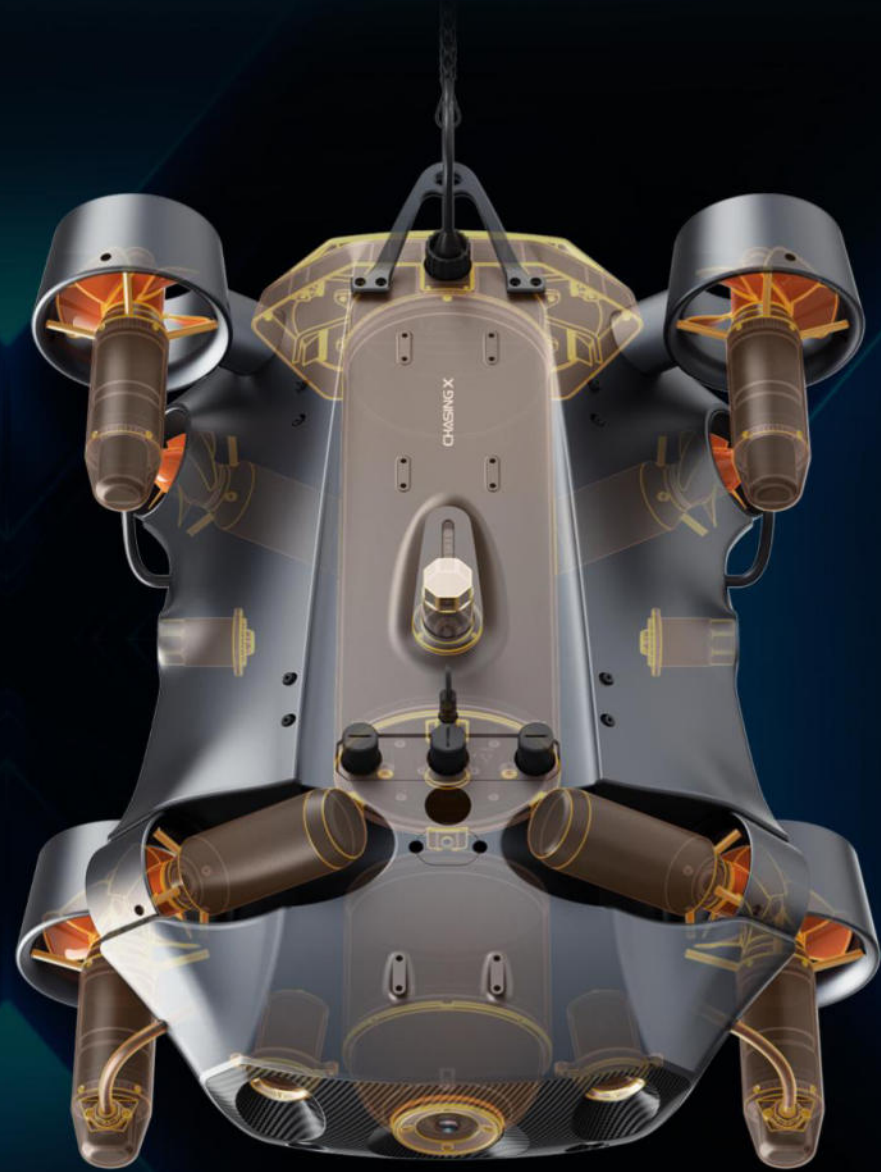
* e-PTZ camera is optional.

* In smart omnidirectional anti-current mode, the viewing angle can only be dragged up and down.

* The specific parameters and functions are subject to the actual products on the market.

Modular Design

The propellers, battery modules, fill lights, camera, control cabinet and distance-lock sonar are designed with a modular approach, ensuring stability and reliability during long-duration, high-intensity operations, while also making after-sales service easier.



AI Host Platform

CHASING X supports the secondary development of AI-related functions based on this platform

Intelligent identification | Intelligent obstacle avoidance | Intelligent measurement
Intelligent cruise | Intelligent tracking | Intelligent flaw detection

AI

SDK Open Platform

Support Customization and Development in multi-scenarios

Supports the mounting of grabber arm, multi-beam imaging sonar, USBL, DVL, laser-scaler, etc., with flexible configurations and rapid assembly and disassembly, catering to the needs of multiple industries and scenarios.

```

class MirrorTool:
    def __init__(self):
        self.operation = "MIRROR_Z"
        self.mirror_mod.use_x = False
        self.mirror_mod.use_y = False
        self.mirror_mod.use_z = True

    def __call__(self, context):
        #selection at the click/back the deselected mirror modif
        mirror_ob.select = 1
        modifier_ob.select = 1
        bpy.context.scene.objects.active = modifier_ob
        print("Selected? -> %s" % modifier_ob) # modifier_ob is the acti

        #mirror_ob
        #None = bpy.context.scene.objects.active
        #copy.url(url)
        #copy.url(url)

    except:
        print("please select exactly two objects, the last one gets")
        mirror_ob.select = 1
        print("please select exactly two objects, the last one gets")
        bpy.context.scene.objects.active = mirror_ob
        print("Selected? -> %s" % modifier_ob)

```

*The specific parameters and functions are subject to the actual products on the market.

350-Meter Diving Depth

Maximum diving depth of 350 meters and a horizontal operational radius of 400 meters, CHASING X is well-suited for deep-sea exploration and observation.





Next-Generation Low-light Lens

Specially designed for dark environment, the optimized image algorithm enhances low-light conditions, delivering clear, stable, and color-accurate visuals.

12,000 Lumens Floodlight

Enhances shooting in low-light environments.

Dual Power Supply for Uninterrupted Operation

The standard 1000Wh lithium battery supports quick replacement for continuous operation, with the option for shore-based power supply for unlimited runtime.

1000Wh



Removable battery



Shore-based/Vessel-based power supply

Protective Frame Design

A **high-strength material frame** effectively protects the main unit and accessories from direct impacts, while also enhancing portability.



User-Friendly Interaction and Superior Operation Experience

Equipped with a professional-grade waterproof-screen remote control ,CHASING X connects and operates seamlessly with the dedicated CHASING GO1 APP for CHASING X. It supports live streaming of underwater footage and one-click sharing for a more user-friendly experience.



Multi-Scenario Applications



Emergency Rescue



Water Conservancy & Hydropower



Hull & Dock



Aquaculture



Pipeline



Offshore Wind Power



Offshore Drilling Platform



Underwater Archaeology



Scientific Research & Environmental Protection

Multi-Accessory Mounting



Electronic Pan-tilt Camera



DVL



USBL



Multi-beam Imaging Sonar



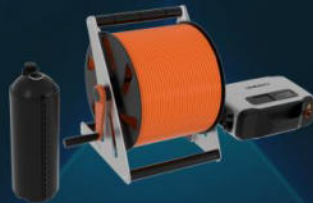
Grabber Arm



Water sampler



Multiparameter Sonde



C-SPSS



Laser Scaler

Emergency Rescue

- Evidence retrieval
- Personnel rescue
- Target location
- Material search
- Rescue assistance

Setup: CHASING X, DVL, USBL, Grabber Arm, Multi-beam Imaging Sonar, C-SPSS

Additional optional accessories: Salvage Circular Claw, e-PTZ

Value: Wide application range, High search and rescue efficiency, Precise identification and location, Enhanced safety, Reduced rescue costs.



Aquaculture

- Aquaculture environment monitoring
- Cage monitoring
- Cage repair and maintenance
- Biological condition monitoring
- Feed delivery and tracking
- Culture sample collection
- Dead fish retrieval

Setup: CHASING X, DVL, Grabber Arm

Additional optional accessories: Water sampler (500ml) , Multiparameter Sonde, C-SPSS, USBL, e-PTZ

Value: Monitoring the growth of farmed fish, Water quality inspection, Improving the environment of aquaculture cages and nets, Ensuring the yield of farmed species, Gene separation, Cost savings.

Water Conservancy and Hydropower

- Reservoir dam foundation inspection
- Crack and seepage detection
- Hydropower station equipment, pipeline and valve inspection
- Corrosion, blockage, or other potential issues



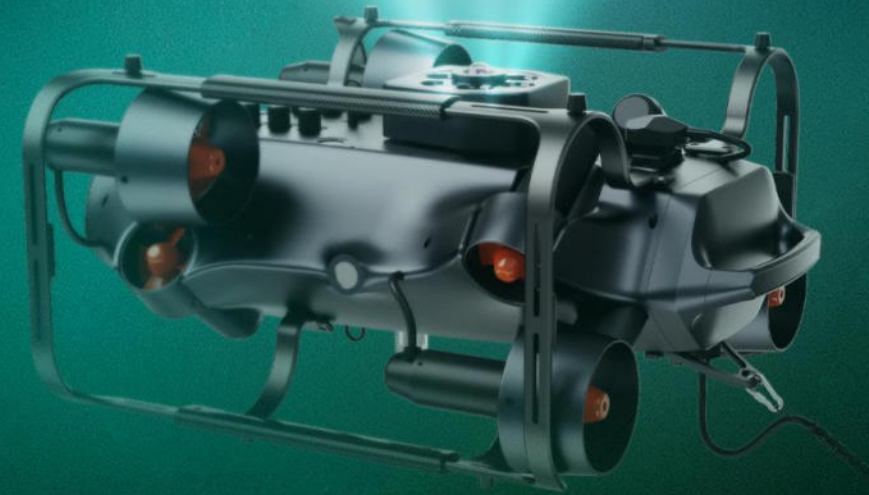
Setup: CHASING X, DVL, USBL, Multi-beam Imaging Sonar, Laser Scaler, e-PTZ

Additional optional accessories: C-SPSS

Value: Wide inspection range, Improved inspection efficiency, Precise identification and location, High inspection safety, Reduced inspection costs.

Ship Hull and Dock Inspection

- Hull corrosion, deformation
- Dock foundation, beams and plates, dock joints
- Propeller inspection, winding cleaning
- Other facility monitoring and inspection



Setup: CHASING X,DVL ,e-PTZ

Additional optional accessories: C-SPSS, Grabber arm, Mechanical scissors

Value: Effectively avoids safety risks, Improves inspection efficiency, Reduces inspection costs, Enhances safety compliance, Easy and quick operation.

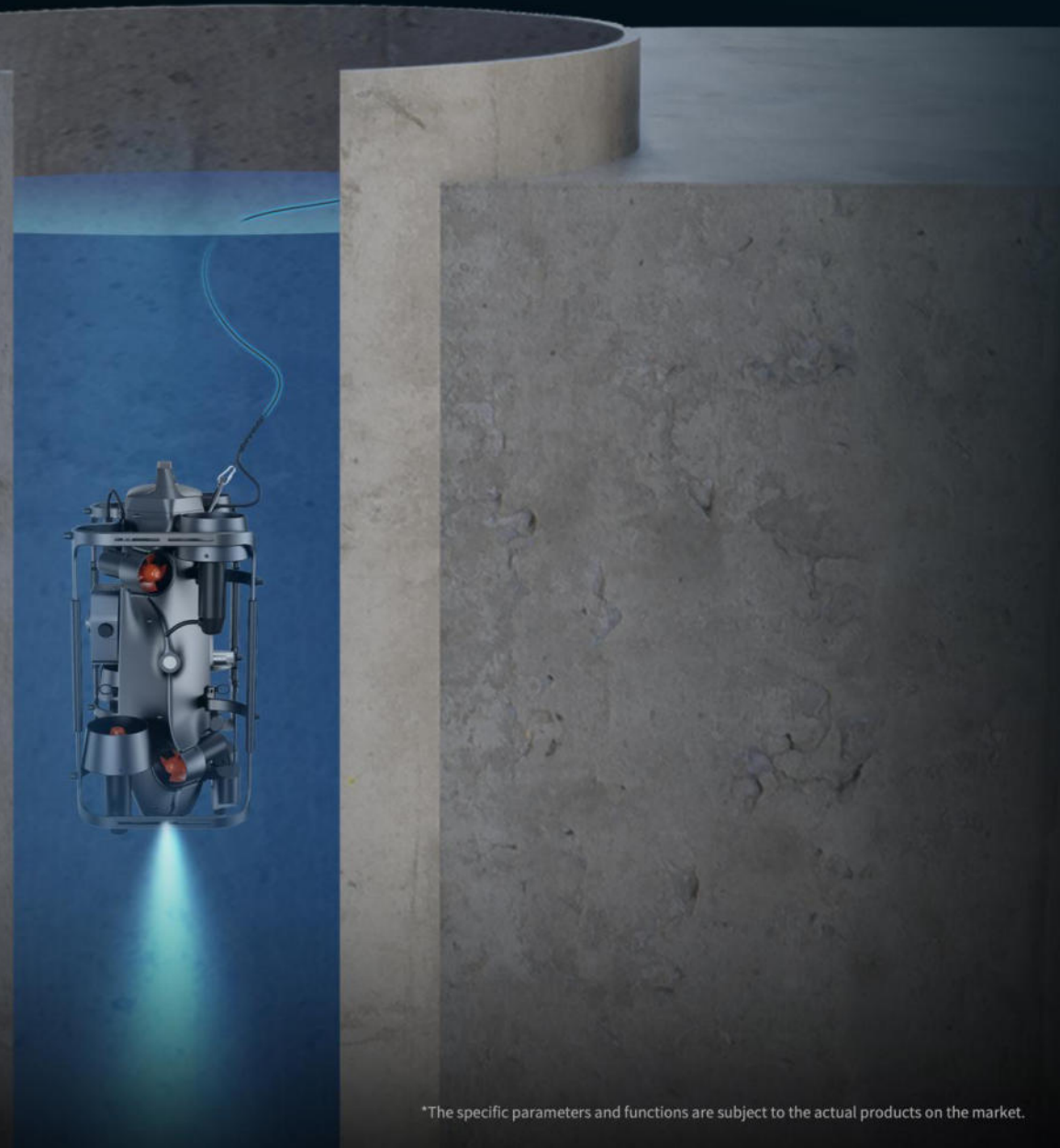
Pipeline Inspection

- Sewage pipeline inspection
- Corrosion detection
- Diameter measurement
- Wall thickness detection
- Propeller inspection, winding cleaning
- Inspection of pipeline environments and associated facilities

Setup: CHASING X, Multi-beam Imaging Sonar, e-PTZ

Additional optional accessories: C-SPSS, Laser Scaler

Value: Flexible and convenient inspections, Efficient detection, 3D pipeline modeling, High inspection safety, Reduced inspection costs.



Offshore Wind Power

- Damage detection of offshore wind power infrastructure
- Pile foundation inspection
- Scour protection inspection
- Wind turbine foundation inspection
- Exposure scanning
- Operational status monitoring
- Automated data collection and management

Setup: CHASING X, DVL, USBL, Multi-beam Imaging Sonar, e-PTZ

Additional optional accessories: C-SPSS, Laser Scaler, Cathodic protection probe, Thickness gauge, Ultrasonic Flooded Member Detector

Value: Wide inspection range, Improved operation and maintenance efficiency and safety, Precise identification and location, High inspection safety, Reduced inspection costs.



Offshore Drilling Platform

- Flooded Member Detection
- Cathodic Protection Measurement
- Ultrasonic Thickness Measurement
- Scour Protection Inspection
- Debris cleaning

Setup: CHASING X, DVL, USBL, Multi-beam Imaging Sonar, e-PTZ

Additional optional accessories: C-SPSS, Laser Scaler, FMD, Cathodic protection probe, Ultrasonic Thickness Detector, Grabber Arm

Value: Wide inspection range, Improved operation and maintenance efficiency and safety, Precise identification and location, High inspection safety, Reduced inspection costs.



Underwater Archaeology

- Archaeological discovery of underwater ancient relics
- Exploration of underwater shipwrecks
- Site survey and inspection
- Ancient artifact recovery



Setup: CHASING X, DVL, USBL, Grabber Arm, Multi-beam Imaging Sonar

Additional optional accessories: C-SPSS, e-PTZ

Value: Wide inspection range, Avoiding safety risks for archaeologists, Improved archaeological efficiency, Reduced manpower costs, Enhanced archaeological precision, Easy and quick operation.

Scientific Research and Environmental Protection

- Scientific research expeditions
- Environmental monitoring
- Water quality testing
- Biological surveys
- Terrain mapping
- Pollution investigation
- Underwater exploration and scientific experiments
- Data collection and analysis
- Teaching and training

Setup: CHASING X, DVL, USBL, Multiparameter Sonde, Grabber Arm , Water sampler (500ml)

Additional optional accessories: Multi-beam Imaging Sonar, C-SPSS, e-PTZ

Value: The direct integration of SDK open platform facilitates multi-scenario research and application, Efficient data collection, scientific sampling & stratified water sampling, enhanced safety, scientific innovation & education and talent cultivation, academic development.



Product parameter

ROV	
Size	810*636*453mm
Max Depth	350 meters (1148 ft)
Max Speed	Forward 4.5 knots, Lateral 2 knots
Max Flow Resistance	4.5 knots
Runtime	Up to 2H, normal operation
Battery	1000Wh
Power Supply	Battery/C-SPSS (Optional)
Operating Environment	Underwater
Operating Temperature	-10°C~45°C

WSRC	
Size	292*156*79mm
Weight	1.3kg
Battery Capacity	7000mAh
Runtime	≥6H (depending on the environment)
Wireless	Wi-Fi supported
HDMI	Supported
Waterproof Rate	IP65

Sensors	
IMU	axis gyro/accelerometer/compass
Depth Sensor	Accuracy<±0.25m
Temperature Sensor	Accuracy<±2°C

LED	
Brightness	2 x 6000lm
Dimming	Stepless (brightness adjustable via App)

Camera	
CMOS	1/1.8"
Lens	F2.2
Focusing Distance	0.5m
FOV	160°
Max Resolution	8 Meg Pixel
Format	JPEG/DNG
Video	UHD: 3840*2160, 4K/ 30 FPS FHD: 1920*1080 (1080P) , 30/60/120FPS
Slow Motion	720P: 6 x (180FPS) 1080P: 4 x (120FPS)
Time Lapse	4K/1080P supported
Video Stream	60M
Video Format	MP4
SD Card	Standard 128G, support up to 1T (Removable)

ePTZ	
CMOS	1/1.8"
Lens	F2.0
Focusing Distance	0.5m
FOV	220°
Max Resolution	8 Meg Pixel
Format	Panoramic JPEG
Video Stream	60Mbps
Video Format	Panoramic MP4
Video	UHD:3840*1920, 25 FPS
SD Card	Standard 128G, support up to 1T (Removable)

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