

CHASING

EXPLROE THE UNEXPLROED

# CHASING M2 S

Industrial-Grade Underwater ROV



**Flexible | Stable | Endless exploration**

For product information, please refer to the actual products on the market. For the latest information, please refer to the official website: [www.chasing.com](http://www.chasing.com)

# CHASING M2 S

CHASING M2 S is an industrial-grade revolutionary underwater robot, which adopts an open-body design, intelligent flight control system and image algorithm, bringing unprecedented underwater perception and freedom of movement. 8 vectored-thrusters are symmetric and anti-stuck C-Motor 3.0 provide stable power, while the flagship sealed structure guarantees underwater operation performance. The ROV is compact and lightweight, easy to operate, and efficiently completes inspection tasks in various underwater operating scenarios in different industries.



# THREE MECHANISMS



**C-Sense Control System,  
flexible and stable**



**All-scenario Efficient  
Operation System**



**HD Visual Image  
Transmission System**

# *C-Sense control system, flexible and stable*



8 Vectored-thrusters



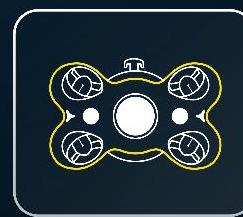
NeptuneX intelligent flight control system



Apex Anti-stuck C-Motor 3.0



Flagship Airtight structure



Butterfly wing outline

## 8 Vectored-thrusters

- | Remains the symmetrical vector layout of the eight thrusters of CHASING.
- | Adopts a design where translation and rotation are independent of each other.
- | Supports 360-degree omnidirectional movement and rotation.



**Improves posture response speed and control stability.**



# NeptuneX intelligent flight control system

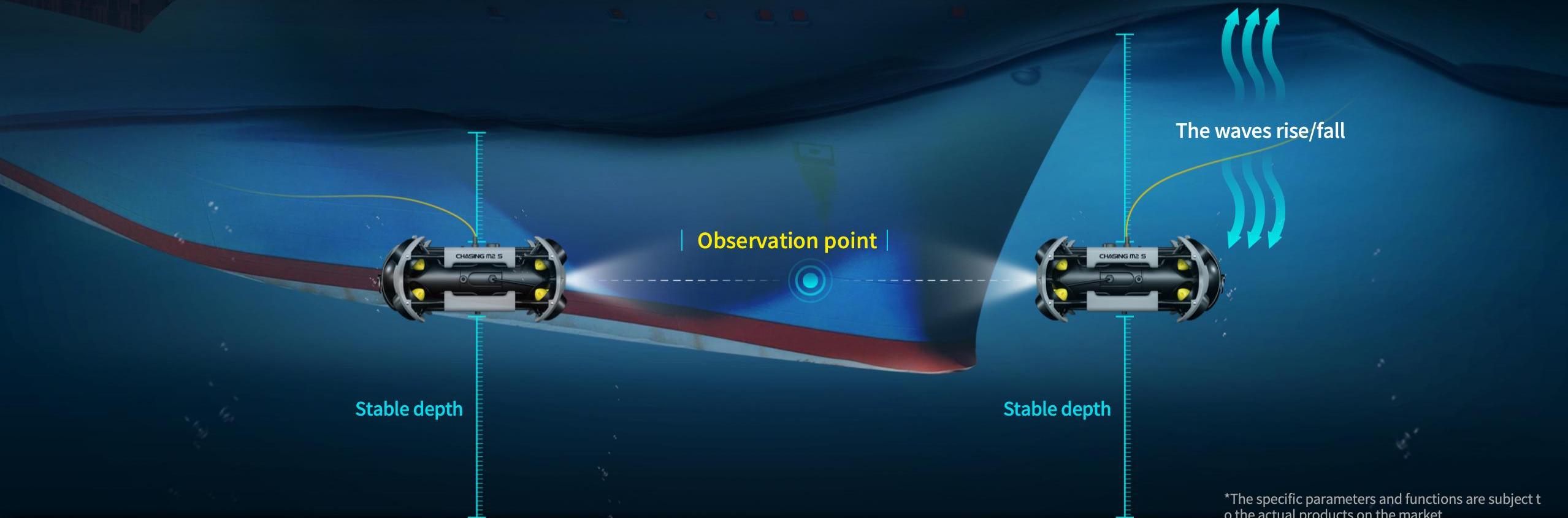
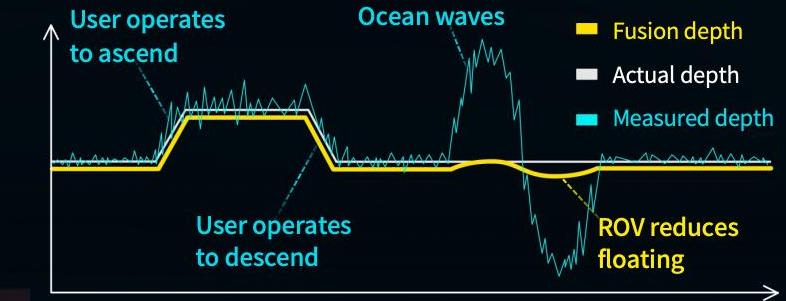
The exclusive CHASING navigation algorithm enables more precise operation; CHASING M2 S can maintain the movement direction even in the presence of external force interference or difficult operating conditions.



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

# NeptuneX intelligent flight control system

The Kalman inertial navigation fusion depth observation method greatly reduces the impact of ocean waves on ROV and maintains the depth stable, significantly enhances the vertical flow resistance capability.



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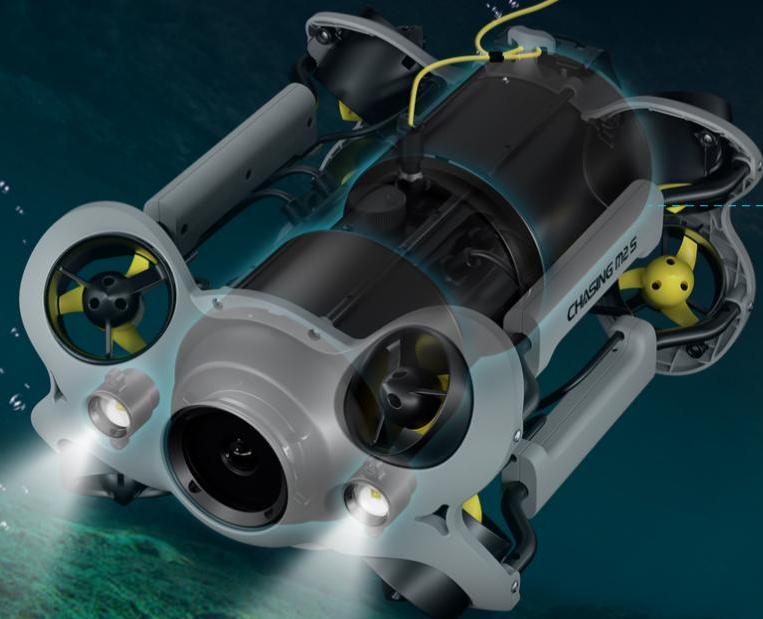
# Apex Anti-stuck C-Motor 3.0

The third-generation Apex Anti-stuck C-Motor 3.0 used in the CHASING M2 S adopts a unique anti-stuck solution and magnet protection technology, which ensures power supply but also greatly reduces electrochemical corrosion and aggregation rust caused by motor wear. The anti-stuck performance is stronger, making it more reliable to use.

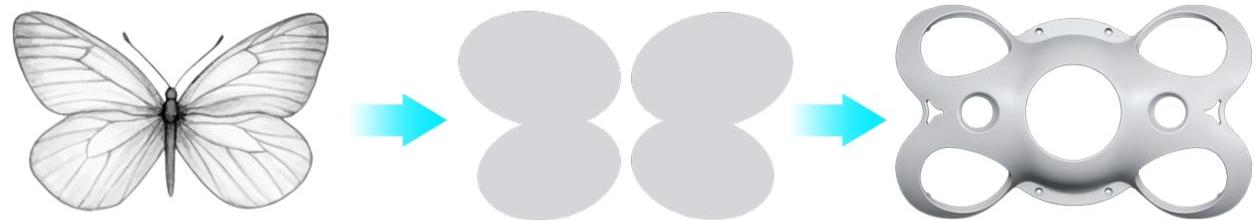


# *Flagship Airtight structure*

Fully innovate the waterproof structure of the main cabin  
and lighting to further enhance the stability of underwater operations.



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## ***Butterfly wing outline***

The streamlined design of the butterfly wing outline at front and rear enhances the recognition and protects the propeller.



# *All-scenario Efficient Operation System*



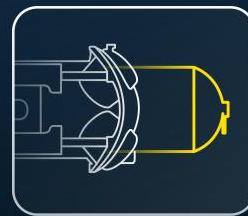
A wide  
working range



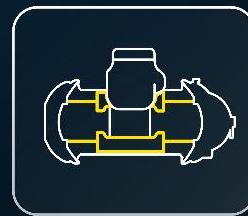
Multiple  
accessories



All scenarios  
application



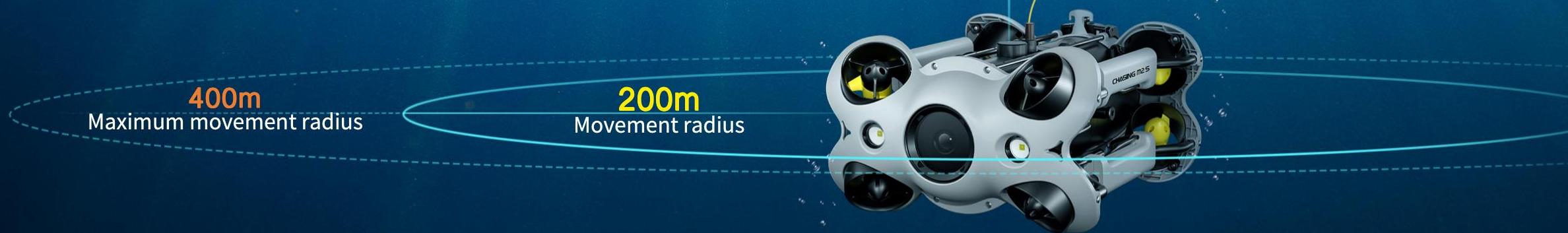
Swappable  
battery



Portable  
and convenient

# *A wide working range*

CHASING M2 S can dive to a maximum depth of 100 meters, an operating radius of 200 meters. 400 meters extendable distance.



# *Multiple accessories*



| Adapt to CHASING self-developed accessories |



CHASING LASER  
Scaler



CHASING DISTANCE  
LOCK SONAR



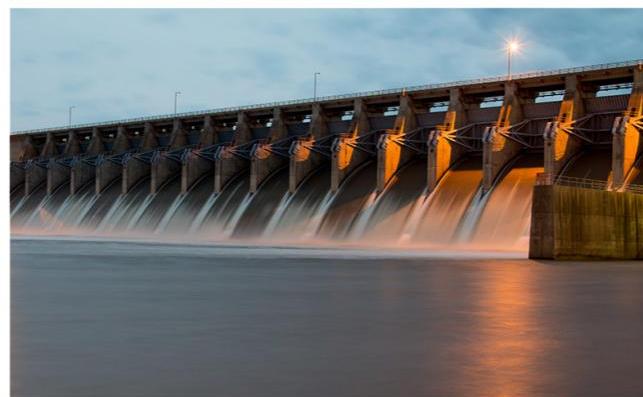
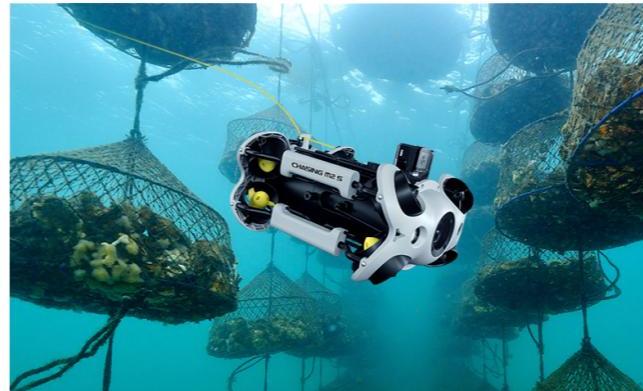
CHASING  
WSRC



| Suitable for third-party facilities |

# *All scenarios application*

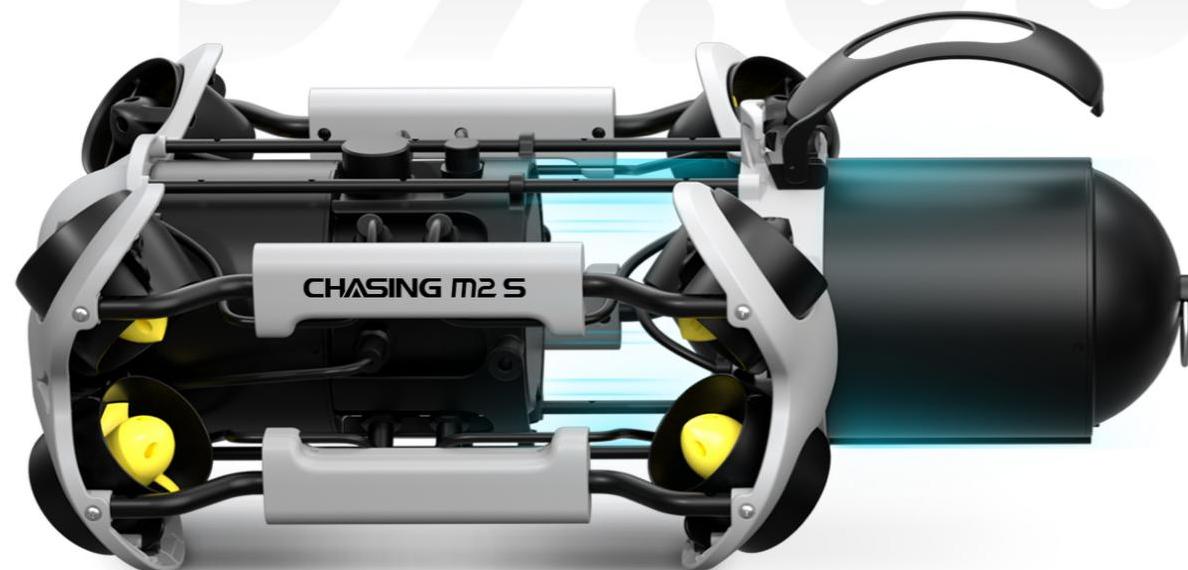
CHASING M2 S is widely applied in various industries, such as underwater photography, hull and dock inspection, fishery and aquaculture monitoring, underwater emergency rescue, scientific exploration, water conservancy and hydropower inspection, Pipeline inspection, providing efficient solutions for underwater observation tasks.



# ***Swappable battery***

CHASING M2 S has a default 97.68Wh battery that can power up to 4 hours operation.

The battery compartment is ready to use, 200Wh backup battery is also optional to meet the needs of long-time operation.



**97.68Wh**



## **Extend operation time**

- | The battery compartment is ready to use
- | Optional 200Wh backup battery

# *Portable and convenient*

CHASING M2 S is portable and has a compact body. Single-person operation and quick deployment brings an effective operating experience under a variety of scenarios.



ROV weights  $\approx$  4.5KG



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

# *HD Visual image Transmission System*



4K+EIS Image Stabilization,  
F2.8 Aperture



CHASING Aquavision image  
algorithm, fully upgraded  
imaging



Removable SD  
memory card , online  
live-stream and share



User-friendly  
interaction

# **4K+EIS Image Stabilization, F2.8 Aperture**

*Clearly capture every detail underwater*



4K Video



12 Megapixel



1/2.3" CMOS



F2.8 Aperture



EIS



4000lm LED  
Floodlights



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# ***CHASING Aquavision image algorithm, fully upgraded imaging***

The color restoration algorithm design based on underwater light, physical light route, and environmental, as well as the visual identification and tracking system, completely upgrade image transparency, clarity, reducing color layering, and noise.



| Before |

| After |



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# ***Removable SD memory card to save photos and videos, Support online live-stream and share***



The **64G** SD memory card  
is removable, up to **512G**.



Live-stream



Social media sharing



HDMI output



Take pictures while  
recording video



Time-lapse  
photography



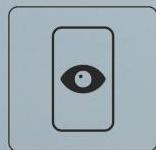
Quick editing  
tools

# User-friendly interaction

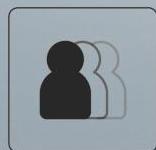
Easy to interact between operator and ROV. Professional remote controller and CHASING App. The operator can record depth, temperature, and other parameters.



| Support VR



| Observer mode



| Multiple devices watching



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# Product parameter

## ROV

Size(mm)	380*267*165mm
Weight	≈4.5KG
Maximum Depth	100m
Runtime (Actual duration is subject to the App prompt)	4h
Battery Capacity	97.68Wh (Optional battery)
Operating Temperature	-10°C~45°C
Load(forward/upward/sideways)	3.2/2.6/2.6kg

## Remote Controller

Size(mm)	160*155*125mm
Weight	685g
Battery capacity	2500mAh
Battery life	≥6H(Depend on working condition)
Wireless	Wi-Fi
Wired interface type	Lightning, Micro USB, USB-C
HDMI	Support
Phone/tablet clip	Supports up to 10 inches

## Charger

Power	2.9A/25.2V
ROV charging time	2.5H
Controller charging time	2H

## Camera

CMOS	1/2.3" CMOS
Aperture	F2.8
Focal scope	0.3m ~ ∞
ISO Range	100–6400
Field of View	150°
Maximum Image Resolution	12M
Image File Types	JPEG/DNG
Video resolution	4K: 3840 × 2160@25/30fps 1080P: 1920 × 1080@25/30/50/60/100/120fps Slow motion4X: 1920 × 1080@30fps (120fps) Slow motion8X: 1280 × 720@30fps (240fps)
Video Maximum Stream	60M
Video Type	MP4
SD Card (Standard)	64G

## LED Lights

Brightness	2x1200LM
Color Temperature	5000K~5500K
CRI	85
Dimming	Three Gears

## Sensor

IMU	Three-axis gyroscope/acceleration/compass
Depth Sensor	<±0.25m
Temperature Sensor	<±2°C

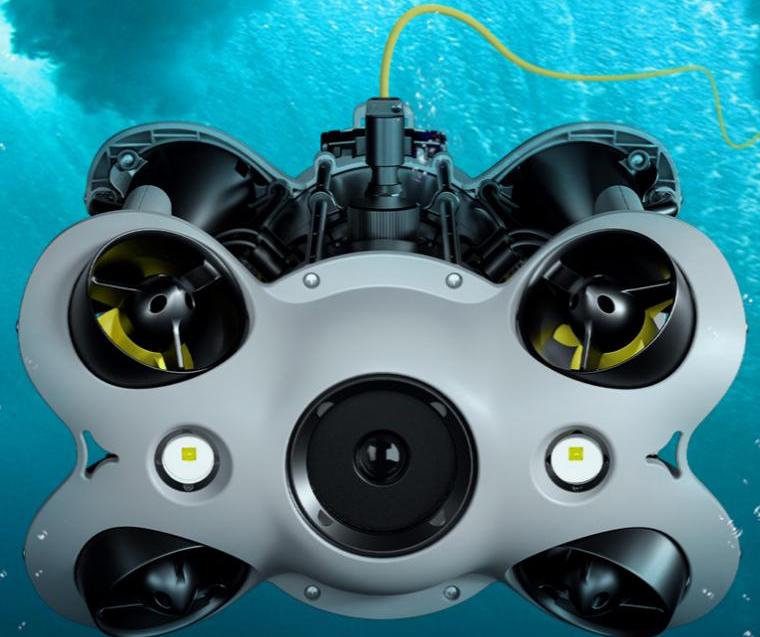
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