# Full application scenarios

It is widely used in various industries, completing underwater observation and detection tasks with high efficiency

underwater photography | Fisheries breeding inspection | Water conservancy, hydropower and pipeline inspection

Scientific exploration | Hull terminal inspection | underwater emergency rescue

ASIMOV STORES

**An industry-class underwater robot has undergone a complete innovation, adopting an open-body design, the latest intelligent motion control system, and image algorithm, bringing unprecedented performance.**

Model#100S

Underwater perception and freedom observement

Optimized underwater image algorithm | 1.5 GHz Quad-core processor | 128 GB storage capacity | 4K Ultra HD video | 2K Ultra HD video | 1TB SSD of class | 150 min dive duration | 1080p clear transmission | Live streaming | 100m depth rating | 5.5lbs lightweight design | Multiple pro accessories | Compatible with mobile phones and tablets

## control system, flexible and stable

### 4K+EIS anti-shake, F2.8 aperture support

An underwater drone is equipped with a 4K HD video and shake function camera, which can shoot 4K video Compared photos, it is equipped with a wide-aperture lens with F2.8 aperture to clearly capture every

detail under water

4K | 12 megapixel photos | 1/2.3" CMOS 1/1600s

Ultra 4K video | 12 megapixel photos | CMOS sensor 1/1600s

1.4 aperture | EIS video image stabilization | wide-aperture lens 1.4 aperture

### Wide scope of work

An underwater robot has the ability to operate within maximum diving depth of 150 meters and a horizontal radius of 300 meters, meeting the needs of long-range and large-scale operations.

### NeptuneXintelligent flight control system, more stable image

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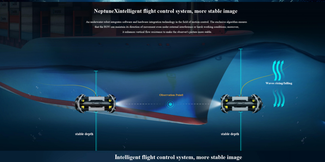
Equipped with the latest intelligent flight control system, the underwater robot adopts the latest algorithm control that the ROV can maintain the direction of movement even under external interference or fluid swirling conditions, operating

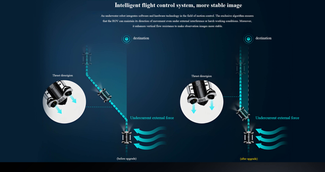
A pleasant, natural flow environment is made, the observer experience better visibility.




### Intelligent flight control system, more stable depth

An underwater robot integrates software and hardware technology in the field of motion control. The exclusive algorithm ensures that the ROV can maintain the direction of movement even under external interference or fluid swirling conditions. Moreover,

A pleasant, natural flow environment is made, observation images more stable.



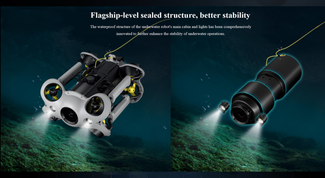

## 8 thruster vector layout, high response speed

An underwater robot combines the commercial vector layout of 8 thrusters, and the butterfly wing streamlined design plays a protective role for the thrusters.

Supports 360 degree all-round movement,high response response speed and stress control.

## Flagship-level sealed structure, better stability

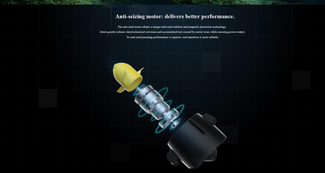
The waterproof structure of the underwater robot's main cabin and lights has been comprehensively improved to further enhance the reliability of underwater operations.



### Anti-seizing motor: delivers better performance.

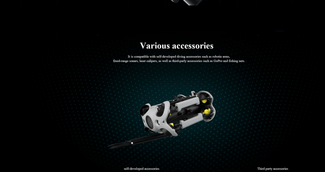
The anti-wind motor adopts a unique and rapid cooling and magnetic protection technology, which greatly reduces electromagnetical interference and is unaffected even in poor water quality. With a stable operating power output

So anti-wind powering performance is superior, and operation is more reliable.



## Various accessories

It is compatible with self-developed diving accessories such as robotic arms, fixed-range cameras, laser calipers, as well as third-party accessories such as GoPro and Fishing nets.




## Batteries are replaceable

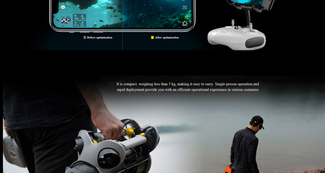
The device comes standard with a 97.68Wh battery, providing up to four hours of battery life.

The battery compartment is ready for immediate use, and an optional 200Wh battery is available to ensure extended operation.

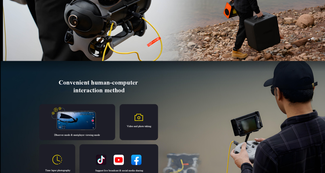
## The Aquavision image algorithm, comprehensively upgrading imaging

Based on the color restoration algorithm, and designed according to underwater light, physical optical pathway, and the environment, the visual recognition and tracking system has enhanced image transparency, clarity, color fluorescity, and reduced image noise.

It is compact, weighing less than 5 kg, reducing it easy to carry. Simple person operation and rapid deployment provide you with an efficient operational experience in various scenarios



### Convenient human-computer interaction method




### intelligent flight control system, more stable image

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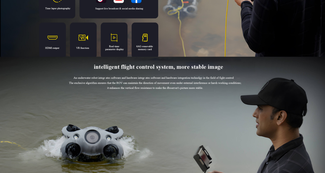

### Flexible,stable, and endless exploration