

CHASING



*CHASING Underwater ROV
Industry Solutions for
Emergency Rescues*

Fast | Safety | Efficient

Difficulties in the Underwater Emergency Rescue Industry



Diver searches are **dangerous**.



Diver searches are **time-constrained**.



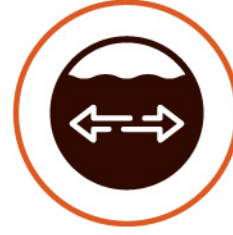
Diver searches are **inaccessible to deep water areas**.



Diver searches are **hindered by low visibility** in muddy environments.



Diver searches are **costly**.



The operation range is unstable in flowing waters that **frequently move the rescuers and supplies**.

CHASING Recommended Solutions

Plan A

CHASING M2



BATTERY



CHASING Grabber Arm 2



CHASING FLOODLIGHT



EREEL

- The e-reel greatly improves the retracting and release efficiency. It prevents the tether from entanglement during search-and-rescue (SAR).
- The CHASING Grabber Claw 2.0 can be equipped with the two-claw tool head to clamp and pick up a search object. The pull ring tool head allows you to securely lock and drag an object.
- The searchlight can increase the underwater sight range and brightness. This allows the ROV to capture underwater images that are more conducive to search and recognition.
- The backup battery also supports long-term SAR.

Plan B

CHASING M2 PRO



Docking Station

BLUEPRINT OCULUS KIT



DISTANCE LOCK SONAR



USBL KIT



AC POWER SUPPLY/BATTERY+EREEL



Control Console



Grabber Arm 2

- Multibeam sonar imaging increases the imaging range for searching, enabling SAR in muddy water.
- The USBL provides precise underwater positioning, allowing the SAR personnel to know the search spot and range in real time.
- The ranging sonar supports bottom detection, which prevent muddy water from interfering with object search.
- The AC power supply system and the backup battery meet the requirements for long-term underwater SAR.
- The high-brightness screen control console adopts the ergonomic design, which enhances the operation and visual experience.
- The docking station allows for concurrent operations of multiple tasks, which improves the SAR efficiency.

| Highlights of the ROV Platform | | CHASING M2 | CHASING M2 PRO |
|--|---|--|---|
| <ul style="list-style-type: none"> • Eight thrusters are arranged in all directions to resist against currents at the speed of 3 to 4 knots. The ROV can travel against currents in flowing waters. • Replaceable batteries support 1 to 4 hours of underwater SAR tasks. • The standard 4000 Lumens LED light fills light for the SAR area and enhances the image definition. • Operations can be performed ashore and underwater images can be transmitted in real time. • The HDMI adapter allows you to project underwater images to the command center. • The standard tether is 100-200 meters and the optional tether is 300-400 meters. The long tethers enable long-distance operations and long SAR ranges. • The ROV is compact and portable and supports single operators. This shortens the SAR time and reduces human resource costs. • The platform is extensible and can carry a variety of accessories. | |  |  |
| Platform Parameter Differences | Depth | 100m | 150m |
| | Current Resistance | 3Knots | 4Knots |
| | Battery Life | 1-2 hours of battery life 97 Wh standard battery and 200 Wh optional battery | 1-2 hours of battery life 300 Wh standard battery and 700 Wh optional battery |
| | Platform Support for Accessories | Single accessory | Multi accessory |
| Supported Accessories | CHASING EREEL | ✓ | ✓ |
| | CHASING Tether 300 M/400 M | ✓ | ✓ |
| | CHASING 200WH BATTERY | ✓ | ✗ |
| | CHASING 700WH BATTERY | ✗ | ✓ |
| | CHASING FLOODLIGHT | ✓ | ✓ |
| | CHASING Grabber Arm 2 | ✓ | ✓ |
| | CHASING DISTANCE LOCK SONAR | ✓ | ✓ |
| | CHASING Auxiliary Camera | ✗ | ✓ |
| | CHASING Adapter Box | ✓ | ✓ |
| | CHASING Control Console | ✗ | ✓ |
| | CHASING AC POWER SUPPLY (100 M Tether/200 M Tether/B) | ✓ A 200 Wh battery pack is required. | ✓ |
| | CHASING BLUEPRINT OCULUS KIT | ✗ | ✓ |
| | CHASING USBL KIT | ✗ | ✓ |
| | CHASING Docking Station | ✗ | ✓ |

| Accessories | Features | Reasons for recommendation |
|--|--|--|
|  <p>CHASING EREEL</p> | <p>One click to retract automatically with the maximum speed of 200 seconds to completion (for a 200-meter cable). Automatic wiring, neatly aligned.</p> | <p>Release and collect the tether cable in an orderly fashion to avoid entanglement. Improve storage efficiency.</p> |
|  <p>CHASING Tether 300 M CHASING Tether 400 M</p> | <p>Tensile strength measured at 100kg with extendable working radius.</p> | <p>The long tether allows for a longer search range. This frees the SAR personnel from the need to frequently move to increase the search range.</p> |
|  <p>CHASING 200WH BATTERY CHASING 300WH BATTERY CHASING 700WH BATTERY</p> | <p>Batteries are replaceable. Batteries with different capacities can provide 2-5 hours of working power.</p> | <p>Alternate use of the primary and backup batteries allows you to carry out long-term SAR. The power system is more cost-effective than AC power supply system.</p> |
|  <p>CHASING FLOODLIGHT</p> | <p>12,000 lm for clear imaging even in murky waters or nighttime.</p> | <p>Increase visibility and brightness underwater.</p> |
|  <p>CHASING Grabber Arm 2</p> | <p>Replaceable tool head with 7kg maximum clamping force.</p> | <p>Two-claw tool heads to hold and pick up target objects. Pull ring tool heads to drag target objects.</p> |
|  <p>CHASING DISTANCE LOCK SONAR</p> | <p>Automatically detects obstacles in the down, front, left, and right directions.</p> | <p>Bottom detection function to avoid any interference with target search from water becoming muddy.</p> |
|  <p>CHASING Auxiliary Camera</p> | <p>Multiple angles for simultaneous observation with different viewing profiles available.</p> | <p>Multi-angle simultaneous observation to shorten the search time.</p> |
|  <p>CHASING Adapter Box</p> | <p>AC power supply system supplies power non-stop with USBL for precise positioning.</p> | <p>Cost-effective and portable high-brightness screen control console.</p> |
|  <p>CHASING Control Console</p> | <p>13.3-inch screen with clear visibility under daylight. Support simultaneous operations of all accessories mounted on underwater drones.</p> | <p>All-in-one operating console with ergonomic design for enhanced operation and visual experience.</p> |
|  <p>CHASING AC POWER SUPPLY (100 M Tether/200 M Tether/B)</p> | <p>Prolonged power supply to ensure long battery life. A high-brightness screen control console or adapter box is required to be used together.</p> | <p>Meets the requirements for long-term underwater SAR. *Note: A 200 Wh battery pack is required when the CHASING M2 is powered by the AC power supply system.</p> |
|  <p>CHASING BLUEPRINT OCULUS KIT</p> | <p>Blueprint Oculus kit</p> | <p>Underwater sonar imaging increases the search imaging distance and is available in muddy water.</p> |
|  <p>CHASING USBL KIT</p> | <p>USBL kit</p> | <p>Precise underwater locationing to track real-time search location and range.</p> |
|  <p>CHASING Docking Station</p> | <p>Support multiple accessories mounted on CHASING M2 PRO.</p> | <p>Up to 6 accessories can be mounted at the same time. Support multiple tasks running efficiently and conveniently.</p> |

01 | Underwater Salvage in Lianjiang, Fuzhou CHASING M2 Assisted in Salvage the Object

A seabed machine in Lianjiang, Fuzhou was lost due to the failure of the communication sonar device. The seabed machine was not found after days of underwater search and recovery. Diver searches were inefficient and dangerous. Underwater search equipment was urgently needed to improve the SAR efficiency and salvage the object.

Service Difficulties:

1. The salvage water area is 2 kilometers away from the coast. The ocean currents flow with high velocity, accompanied by the level-2 sea breeze. The operation range is severely restricted by the environment.
2. Assistance for underwater divers at fixed spots is required. After finding the target, the underwater ROV must keep accurately hovering.

Client Value

1. Compared with conventional underwater salvage methods such as sonar detection and manual search, underwater ROVs greatly enrich salvage methods and improve salvage efficiency and operational safety.
2. A longer SAR time is supported. Same manual search work can be replaced to save SAR costs.



02 | Emergency Rescue in Bazhong City CHASING M2 Assisted in Efficient SAR

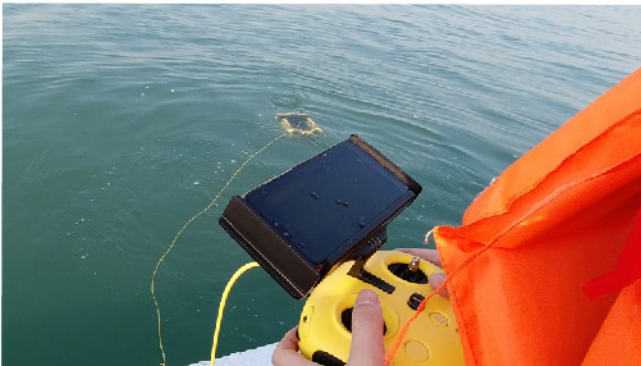
In the waters under the jurisdiction of Bazhong City, drowning accidents happened throughout the year. To quickly respond to rescues, the municipal rescue team required assistance from SAR equipment. They hoped that the SAR equipment would improve the SAR accuracy and efficiency and help the underwater divers obtain more helpful underwater information, which saves the rescue time.

Service Difficulties:

1. The water depth is approximately 10 meters as measured by the underwater ROV. The SAR radius is relatively large.
2. The water area belongs to the reach of urban rivers. Sludge and river sands are accumulated over years. The poor water quality causes low underwater visibility.

Client Value

1. Longer the SAR range and higher SAR efficiency as compared with that supported by conventional diver searches.
2. Efficient SAR decision-making with image-based terrain exploration and environment recognition.
3. Lower human resource costs and safer SAR operations.



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