

# SRV-8 MDV

## MINE DISPOSAL VEHICLE



### Description

The **SRV-8 Mine Disposal Vehicle (MDV)** is a military-grade remotely operated underwater vehicle (ROV) specifically designed to assist naval **Explosive Ordnance Disposal (EOD) teams** in detecting and neutralizing naval mines and unexploded ordnance (UXO). The SRV-8 MDV provides a safer alternative to traditional clearance diver methods.

With a quick deployment time of under three minutes, the SRV-8 MDV allows teams to respond swiftly to underwater threats. As part of Oceanbotics' Special Purpose Vehicle Division, it offers advanced capabilities for fast, efficient, and effective missions.

**The SRV-8 MDV is our standard ROV with added mine disposal accessories. You can also customize the larger SRV-8X to fit your specific mine disposal needs.**

### Included Components

- **SRV-8 Remotely Operated Vehicle (ROV)** - Military-grade SRV-8 remotely operated underwater vehicle trusted by industry professionals.
- **Viper MDS, IED Neutralization System** - A safe and cost-effective firing system specifically designed for the disposal of IED threats, mines, and historic ordnance
- **Spoiled Shock Tube** - A coiled explosive delivery system used to safely send a signal to set off explosives.
- **2-Dimensional Multi-Beam Imaging Sonar** - An imaging sonar system that uses several sound beams to scan underwater, creating clear 2D images to find and identify ocean mines.
- **USBL Positioning System** - Navigation technology that detects and determines the precise location of underwater vehicles, like ROVs.

### How to Neutralize a Mine Threat

1. **Find the Mine** – Use the ROV's sonar and camera to locate the naval mine and move towards it.
2. **Position the ROV** – Move the ROV to place the charge disruptor exactly on the mine's weak spot.
3. **Release the Shock Tube** – Let go of the shock tube and back the ROV up to a safe distance.
4. **Move to Safety** – Drive the ROV to a safe distance away from the mine.
5. **Set Off the Explosion** – Once the ROV is at a safe distance, trigger the explosion to destroy the mine safely.

*For a list of the full vehicle specifications, flip to the backside.*



# SRV-8

## UNDERWATER ROV

### Vehicle Specifications

Length:	50 cm (19.5 in)
Width:	43 cm (17 in)
Height:	33 cm (13 in)
Weight:	18.6 kg (41 lb)
Depth Rating:	305 m (1,000 ft)
Thrusters:	8 Large Brushless DC Thrusters
Lights:	2 lights at 1500 lumens each with dimming control

### Camera

Resolution:	1080p (4k optional)
Camera Tilt Range:	140°

### Sensors

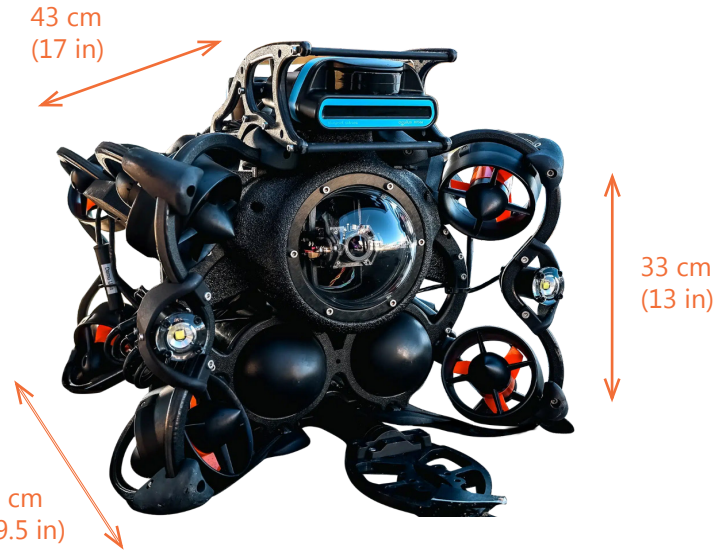
Navigation:	Commercial Grade AHRS/IMU, Precise Heading, Altitude, Pitch & Yaw
Sensors:	Depth/Temperature/Turns Counter/Heading/Humidity/Pressure
External Sensor Inputs:	- 2 Devices via RS232 or RS485 - 2 Devices via Ethernet

### Battery

Battery Source:	Dual Hot-Swappable Battery Modules
Battery Life:	6-8 hours (dependent on usage)
Environmental:	Operational between -10oC and +60oC (in air), -2oC and 35oC (in water)

### Tether

Tether (Copper) Diameter: Length:	4.5 mm (<1 in) 100 m included (up to 300 m available)
Tether (Fiberoptic) Diameter: Length:	4.3 mm (<1 in) up to 3 km



### Standard Topside System: Digital Surface Station (DSS)

- Ruggedized PC Notebook with sunlight readable display
- Digital Interface Module (DIM)
- Gaming Controller

Other Topside Option:  
Mobile Pilot Station (MPS):

Includes ruggedized tablet with sunlight readable display, Digital Interface Module (DIM) and wearable harness

Included:

(2) Transport cases with wheels

### Accessories

Imaging Sonar:	Oculus 3D Imaging Sonar
Doppler Velocity Log (DVL):	DVL-50 (50 m depth) DVL-125 (125 m depth)
USBL:	Seatrak USBL Navigation
Manipulator Arms (Interchangeable):	- 2-Jaw Grabber - 3-Jaw Grabber - Cutter - Sediment Sampler - Alpha Arm (Reach Robotics)
Non-Destructive Testing:	- Cygnus Ultrasonic Thickness Meter - CP Probe (Cathodic Protection) - Imagenex 3D Imaging Sonar

### Software

SubNav OS	Closed-source intuitive ROV software that seamlessly integrates accessories for an easy-to-use experience. Includes free periodic updates.
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