

SRV-8X MDV

MINE DISPOSAL VEHICLE



Description

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

Included Components

- **SRV-8X Remotely Operated Vehicle (ROV)** - Military-grade SRV-8X 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-8X OPTIMUS

UNDERWATER ROV

Vehicle Specifications

Length:	64 cm (25 in)
Width:	53 cm (21 in)
Height:	51 cm (20 in)
Weight:	25 kg (55 lb)
Depth Rating:	305 m (1,000 ft) 500 m available
Thrusters:	8 Large Brushless DC Thrusters
Lights:	4 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
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Sensors:	Depth/Temperature/Turns Counter/Heading/Humidity/Pressure
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External Sensor Inputs:	- (2) Devices via RS232 or RS485 - (4) Devices via Ethernet
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Battery

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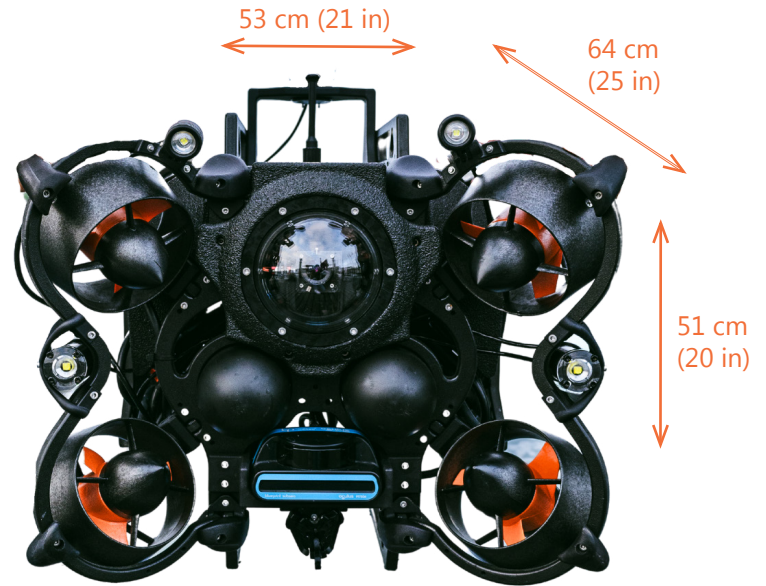
Battery Life:	6-8 hours (dependent upon usage)
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Environmental:	Operational between -10oC and +60oC (in air), -2oC and 35oC (in water)
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Tether

Tether (Copper) Diameter:	4.5 mm (<1 in)
Tether (Copper) Length:	250 m (820 ft)

Tether (Fiberoptic) Diameter:	4.3 mm (<1 in)
Tether (Fiberoptic) Length:	up to 3 km



Standard Topside System: Digital Surface Station (DSS)

- Ruggedized laptop 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: Seatrac 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-X OS

Closed-source intuitive ROV software that seamlessly integrates accessories for an easy-to-use experience.

Includes free periodic updates.