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SRV-8X MDV

Oceanbotics

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The original producer pages follow unchanged.

ROVITEC distributes this document for product information. Technical specifications remain the producer's.

Original source reference:

https://oceanbotics.com/the-srv-8-mdv-mine-disposal-vehicle/

OCEANBOTICS

SRV-8X MDV

MINE DISPOSAL VEHICLE

Locate and neutralize naval mines and UXO with Oceanbotics' SRV-8X MDV (Mine Disposal Vehicle).

Trusted worldwide, it serves as a reliable, user-friendly tool that enhances diver-led MCM operations with added precision, safety, and efficiency. Designed for rapid deployment, it performs in demanding conditions without added complexity.

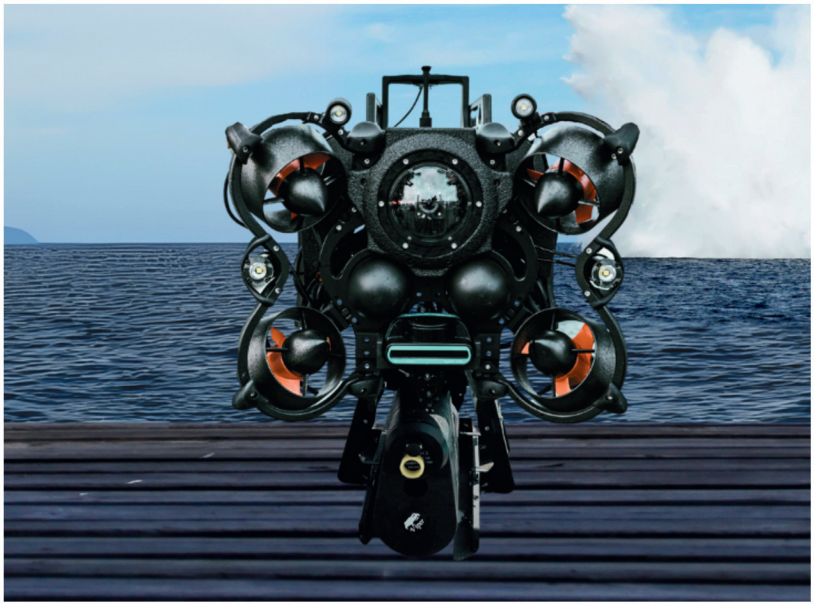
The SRV-8X MDV is our standard ROV with added mine disposal accessories. You can also customize the smaller SRV-8 to fit your specific mine disposal needs.

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.

Included System Components:

- **Handheld Controller**
- **Ruggedized Laptop** *(Tablet option available)*
  - Features a sunlight-readable display for outdoor use
- **Digital Interface Module (DIM)**
  - Enables data transfer and storage between the ROV and the control system
- **SubNav-X OS Software**
  - Closed-source ROV software that offers intuitive piloting, mission recording, navigation, and easy post-processing with free regular updates.
- **Viper MDS, IED Neutralization System**
  - A safe, cost-effective firing system specifically designed for the disposal of IED threats, mines, and historic ordnance
- **Spooled Shock Tube**
  - A coiled explosive delivery system used to safely send a signal to set off explosives
- **2-Dimensional Multi-Beam Imaging Sonar**
- **USBL Positioning System**



The SRV-8X MDV offers a safer alternative to traditional clearance diving by serving as a powerful tool for pre-dive inspections and high-risk EOD operations.

Technical Specifications

Width: 51cm *(20in)*
Height: 43cm *(17in)*
Length: 64cm *(25in)*
Weight (in air): 32kg *(71lb)*

Standard Depth Rating: 350m *(500m option available)*

Thrusters: (8) Large Brushless Direct Current (DC) Thrusters

Battery Run Time: Up to 8 Hours
Source: (2) Hot-Swappable Battery Modules
Voltage: 18V

Operating Temperature Range:
- **In Air:** -10°C to +60°C
- **In Water:** -2°C to +35°C

Video Resolution: 4K
Camera Tilt Range: 140°
Lights: Set of 4 adjustable lights (6,000 lumens total)

Navigation:
- Commercial Grade AHRS/IMU
- Precise Heading
- Altitude
- Pitch & Yaw

Sensors:
- Depth
- Temperature
- Turns Counter
- Heading
- Humidity
- Pressure

External Sensor Inputs:
- (2) RS-232/RS-485 connections
- (4) Ethernet connections

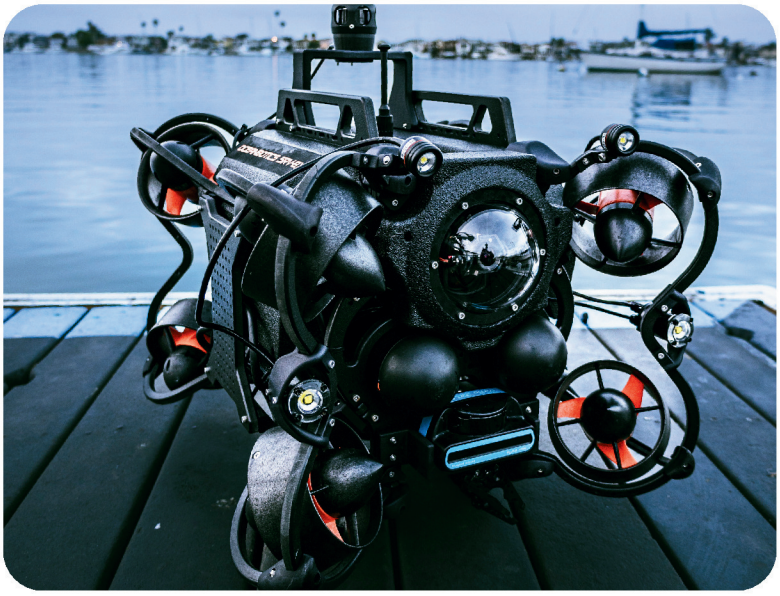
ROV Tether Options
- **Copper:**
  - **Diameter:** 4.5mm (<0.25mm)
  - **Length:** up to 300m
  - **Breaking Strength:** 350kg *(770lb)*
- **Fiberoptic:**
  - **Diameter:** 4.3mm *(< 1in)*
  - **Length:** up to 3+ km
  - **Breaking Strength:** 544kg *(1200lb)*

Additional Accessory Add-ons
For a complete list of compatible accessory add-ons, scan the QR code or visit ***oceanbotics.com/accessories***

OCEANBOTICS®

SRV-8X

PROFESSIONAL UNDERWATER ROV



The SRV-8X ROV combines easy operation with rugged design for peak performance in the toughest underwater environments.

The SRV-8X is built for professionals who need greater payload capacity without sacrificing portability. Complete critical missions in deeper, high-current waters. Depth-rated to 350m *(500m & 1200m options available)* and battery-powered up to 8 hours, this user-friendly ROV is engineered for tough conditions and mission versatility.

Easy to Use & Most Maneuverable

Up to 8 Hrs of Battery Life

Fully Customizable Accessories

Depth Rated to 350 m

In-House Tech Support

SubNav OS: Intuitive ROV Software

Technical Specifications

Width: 51cm *(20in)*
Height: 43cm *(17in)*
Length: 64cm *(25in)*
Weight: 32kg *(71lb)*
Weight (w/o batteries): *24kg (54lb)*

Standard Depth Rating: 350m *(1,148ft)*
- *500m & 1200m options available*

Thrusters: (8) Large Brushless Direct Current Thrusters

Power Options:
Battery Power *(Standard)*
- **Runtime:** Up to 8 hours
- **Power Source:** Two hot-swappable battery modules
- **Operating Voltage:** 18V

Direct Power
- **Runtime:** Continuous
- **Power Source:** Topside Power System

Operating Temperature Range:
- In Air: -10°C to +60°C
- In Water: -2°C to +35°C

Video Resolution: 4k
Camera Tilt Range: 140°
Vehicle Pitch Range: 140°
Total Tilt Range: 280°

Lights: Set of 4 adjustable lights *(6,000 lumens)*

Navigation:
- Commercial Grade AHRS/IMU
- Precise Heading
- Altitude
- Pitch & Yaw

Sensors:
- Depth
- Temperature
- Turns Counter
- Humidity
- Pressure

External Ports:
- (2) RS-232/RS-485 connections
- (4) Ethernet connections

ROV Tether Options
- **Copper:**
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  - **Length:** up to 300m
  - **Breaking Strength:** 350kg *(770lb)*
- **Fiberoptic:**
  - **Diameter:** 4.3mm *(< 1in)*
  - **Length:** 3+ km
  - **Breaking Strength:** 544kg *(1200lb)*
    - *340kg (750 lb) option available*

Included System Components:
- **Handheld Controller**
- **Ruggedized Laptop**
  - Features a sunlight-readable display
- **Digital Interface Module (DIM)**
  - Enables data transfer and storage between the ROV and the control system
- **SubNav OS Software**
  - Closed-source ROV software that offers intuitive piloting, mission recording, navigation, and easy post-processing with free regular updates.

Popular Accessory Add-Ons:
- Navpod Navigation Module
- Multi-Beam Imaging Sonar
- Doppler Velocity Log *(DVL)*
- Grabbers & Manipulators
- GPS Positioning System *(USBL)*

Additional Accessory Add-ons
For a complete list of compatible accessory add-ons, scan the QR code or visit ***oceanbotics.com/accessories***