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SRV-8X ATS

Oceanbotics

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The original producer pages follow unchanged.

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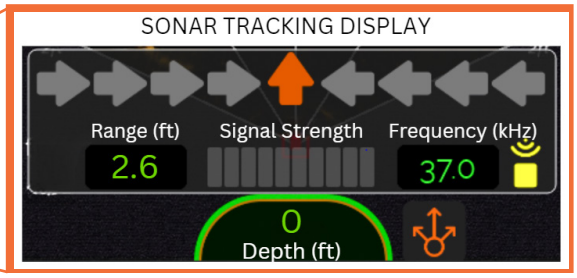
Original source reference:

https://oceanbotics.com/srv-8x-ats/

SRV-8X OPTIMUS ATS

UNDERWATER DRONE WITH ACOUSTIC (SONAR) TRACKING SYSTEM





The SRV-8X Optimus ATS is a Special Purpose Vehicle designed to locate and assist in the recovery of underwater assets like AUVs, ROVs, and equipment moorings that are marked with an acoustic locator beacon (pinger) or our ATT-400 series Transponder. This includes 'Black Box' pingers that are used on aircraft flights and data recorders. The SRV-8X Optimus ATS is also capable of discreetly identifying sonar transponders without revealing their positions, rendering it a highly valuable resource for operations that require absolute confidentiality.

Using the external sensors that are incorporated into our rugged SRV-8X Optimus ATS, the Remotely Operated Vehicle (ROV) gives you the capability to locate any acoustic signal sent by the asset's pinger. The ROV can then quickly navigate to that asset and assist in the recovery to depths of 500m (1,640ft).

Sonar Beacon/ Pinger Tracking Mode

Recieving Bandwith:	8 kHz to 45 kHz (tunable in 100 Hz increments)
Emergency Frequency:	37.5 KHz

Sonar Transponder Mode

Recieve Frequencies:	25-45 KHz in 1 kHz increments
Range Display:	Meters to Transponder Location
Acoustic Signal:	Coded & Secure
System Range:	Up to 750 m (2,460 ft)
Depth Rating:	500 m (1,640 ft)

System Capabilities

- Rugged eight (8) thruster ROV with six degrees of movement that is depth rated to 500m (1,640ft)
- Directional acoustic receiver that locates acoustic beacons operating between 8 kHz and 45 kHz
- Subsea navigation that includes realtime tracking of the vehicle and station keeping capability
- HD video and scanning sonar to provide realtime situational awareness for the operator
- Manipulator arms to assist in recovery of assets
- up to 6 hours of operational life using hot-swappable batteries
- Custom SubNav-X OS software that integrates operations of the system and records all data for playback

TURN OVER FOR VEHICLE SPECIFICATIONS

OCEANBOTICS™
SPECIAL PURPOSE VEHICLE DIVISION
oceanbotics.com
MADE IN IRVINE, CALIFORNIA, USA

SRV-8X OPTIMUS
UNDERWATER DRONE

Vehicle Specifications

Length:	64 cm (25 in)
Width:	51 cm (20 in)
Height:	43 cm (17 in)
Weight:	25 kg (55 lb)
Depth Rating:	500 m (1,640 ft)
Thrusters:	8 Large Brushless DC Thrusters
Lights:	4ea lights at 1500 lumens 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 - (4) Devices via Ethernet

Battery

Battery Source:	Dual Hot-Swappable Battery Modules
Battery Life:	4-6 hours (depending upon usage)
Manipulator Arms: (Interchangable)	- 2-Jaw Grabber - 3-Jaw Grabber - Cutter - Sediment Sampler (Articulating arms available)

Software

SubNav-X OS	Best in class intuitive software that seamlessly integrates accessories for an easy to use, all-in-one experience. Includes free periodic updates.



Standard Topside System: Digital Surface Station (DSS)

- Xbox Controller
- Rugged PC Notebook with sunlight readable display
- Digital Intergration Module

Alternative Topside Options:	- Alpha Flight-Stick - Mobile Pilot Station (MPS) with Rugged Tablet
Cases Included:	(2) Transport cases with wheels
Tether (Copper) Diameter: Length:	 4.5 mm (<1 in) 250 m (328 ft)
Tether (Fiberoptic) Diameter: Length:	 4.3 mm (<1 in) up to 3km

Navigation

Doppler Velocity Log (DVL)	DVL-50 (50m depth) DVL-125 (125m depth)
USBL	Seatrac USBL Navigation

Sonar

Imaging Sonar	Oculus 3D Imaging Sonar