

AML-3 Sound Velocity Profiler 6000m (1000dBar)



The **AML-3 Sound Velocity Profiler** (6000m / 1000 dBar) is a rugged, high-performance instrument designed for accurate sound velocity profiling in **deep ocean environments**. Purpose-built for **hydrographic, oceanographic, and offshore energy applications**, this profiler supports **precise sonar correction** and **acoustic positioning** at extreme depths.

Engineered by **AML Oceanographic**, the AML-3 SVP 6000m model incorporates a **1000 dBar pressure sensor**, enabling high-resolution depth measurement down to **6000 meters**. Its modular design features **Xchange™ field-swappable sensors**, allowing users to easily replace or calibrate sensors such as **sound velocity, temperature, pressure, conductivity, or turbidity**—all without returning the instrument to the manufacturer. This plug-and-play capability maximizes field uptime and reduces project delays.

Built with a **corrosion-resistant titanium housing**, the AML-3 6000m is highly durable in deep-sea conditions and compatible with **ROVs, deep-tow systems, and over-the-side winch deployments**. Its compact size and flexible data interface (USB and serial) make it ideal for integration into a wide range of subsea platforms.

Key Features

- Depth rating: 6000 meters
- Integrated 1000 dBar pressure sensor for deep profiling
- Xchange™ sensor technology for modular, field-swappable sensors
- High-accuracy sound velocity data for MBES and USBL corrections
- Durable titanium housing for harsh deep-sea conditions
- Compatible with AML SeaCast software for real-time monitoring and post-processing
- USB and RS-232 connectivity
- Data outputs compatible with major sonar and navigation software systems

Whether for seabed mapping, subsea construction, or scientific research, the AML-3 SVP 6000m (1000 dBar) delivers trusted, high-precision profiling for mission-critical deepwater operations.

Specifications

Parameter	500 m	6000 m
Max. Depth	500 m	6000 m
Number of Ports	3	3
Biofouling Protection	Street Lamp UV (Optional)	N/A
GPS	LGR: Yes RTS: No XC: No	LGR: No RTS: No XC: No
Communication	LGR: WiFi, USB-C RTS: RS232 XC: WiFi, RS232 & USB-C	LGR: USB-C RTS: RS232 XC: RS232 & USB-C
Input Voltage	8–30 VDC	8–30 VDC
Pressure Housing	Acetal	Titanium
Protective Cage	Stainless Steel	Stainless Steel
Dimensions	Sm Cage: 343 × 76 mm Md Cage: 398 × 76 mm Lg Cage: 464 × 76 mm	Sm Cage: 343 × 76 mm Md Cage: 398 × 76 mm Lg Cage: 464 × 76 mm
Weight in Air	1.4 kg	2.5 kg
Weight in Water	0.7 kg	1.9 kg
Software	Sailfish	Sailfish