

The first-ever time-of-flight sound velocimeter, the SV Plus v2 is a logger that improves SV accuracies by a factor of five over CTD based calculations such as Chen & Millero or Del Grosso. AML has manufactured more than 3000 time-of-flight sound velocity sensors, making the SV Plus v2 a proven field partner.

Redesigned in 2002, the SV Plus v2 incorporates new features that make it more powerful than ever. The SV Plus^{v2} has 25 Hz sampling, guaranteeing high resolution data. Rapid, matched sensor response times eliminate the need for post processing of data. Used by surveyors worldwide and recommended by leading multi-beam manufacturers, the SV Plus v2 is the industry standard for reliable sound velocity profiling.

Standard Features:

- Sound Velocity: Time-of-Flight, +/- 0.05 m/s accuracy
- Temperature: Precision Aged Thermistor, +/-0.005°C accuracy
- Pressure: Temperature Compensated Strain Gauge, +/- 0.05%FS accuracy
- Power: dual power (internal battery and external supply)
- Memory: gigabyte non-volatile memory (expandable)
- High speed sampling: user configurable, up to 25Hz



X•Series: Sensor-Xchangeable Instruments

Available as an upgrade, X•Series instruments allow the user to change instrument sensor-load on demand. With the X•Series, your CTD can be an SVTP, shallow pressure sensors can be swapped for deep, and temperature range can be adjusted as needed. The X•Series uses Xchange™ sensor-heads, which are both field-swappable and shareable with all other models of X•Series instruments.

For more information, request an X•Series brochure.

Electrical:

- Gigabyte non-volatile memory (expandable)
- Up to 25 scans per second
- 8 to 26 VDC (external)
- Auto detect RS232 or RS485
- Auto shut-down in low battery conditions
- Real time clock
- Additional channels (10 analog or 5 digital, optional)
- USB download (optional)

Power Options:

- 9 D cell Alkaline batteries
- 3, 6, or 9 D cell Lithium batteries
- 9 D cell Ni-Cad rechargeable batteries

Mechanical:

- Housing & End Cap: Hard anodized Aluminium 6061-T6 housing to 5000 m or 7075-T6 to 6000 m
- Size: 100 mm (4.0") diameter x 881 mm (34.9") long
- Connector: Subconn Micro 8
- Storage Temperature: -40°C to 60°C
- Operating Temperature: -20°C to 45°C

Sampling Modes:

- User configurable
- By time, up to 25 Hz
- By pressure, .01 dBar and greater

Accessories:

- Instrument suspension bar
- Instrument protection cage
- Field spares kit

Parameter	Range	Precision	Accuracy	Resolution	Response
STANDARD					
Sound Velocity (Composite)	1400 to 1600m/s	+/-0.03m/s	+/-0.05m/s	0.015m/s	47 microseconds
Temperature	-2 to 32°C	+/-0.003°C	+/-0.005°C	0.001°C	100 milliseconds
Pressure (Strain Gauge)	Up to 6000m	+/-0.03%FS	+/-0.05%FS	0.005%FS	10 milliseconds
OPTIONAL					
Salinity (Calculated)	Up to 40ppt		+/-0.035ppt		
Density (Calculated)	990 to 1200kg/m ³		+/- 6.0kg/m ³		

Xchange™

Field-swappable Xchange™ sensors (Conductivity, Sound Velocity, Temperature and Pressure) are only available on X•Series instruments, including the Minos•X. For more information, please request a copy of the Minos•X brochure.

*specifications subject to change without notice

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