



SWiFT SVP

Sound Velocity Profiler

Designed from the outset with the intention of a seamless workflow, the SWiFT SVP profiler provides survey-grade sensor technology coupled with the convenience of Bluetooth connectivity and rechargeable batteries. An integral GPS module, to geo-locate each profile, completes the package. Data can be easily and quickly downloaded and reviewed wirelessly, via Bluetooth, using Valeport's new Ocean software for Windows and Connect Pathway Edition for iOS and Android and instantly shared, in industry standard data formats through email and cloud services. A USB Cable and Bluetooth adapter are provided.

In addition to the directly measured sound speed, temperature and pressure observations, Conductivity, Salinity and Density are calculated using Valeport's proprietary algorithm developed from extensive laboratory and field work.

With an operational battery life of up to 5 days and the convenience of charging via USB, SWiFT SVP is intended for coastal, harbour and inland hydrographic survey use and offers the highest quality sound velocity profiles in a compact, robust and portable package. Optionally, the supplied deployment weight is available to bolt onto the sensor protection cage to help get the SWiFT SVP to depth in fast-flowing currents.

DATA SHEET

Product Details



SOUND
SPEED



MULTI-PARAMETER
CTD



OCEAN & CONNECT
PATHWAY EDITION
SOFTWARE



Bluetooth



USB



Rechargeable
Battery



GPS

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Sensor Specifications

The SWiFT SVP is fitted with Valeport's digital time of flight sound velocity sensor, temperature compensated piezo-resistive pressure transducer and a PRT temperature sensor.

Sound Velocity

Range	1,375-1,900 m/s
Resolution	0.001 m/s
Accuracy	±0.02 m/s

Pressure

Range	50 Bar
Resolution	0.001% FS
Accuracy	±0.01% FS

Temperature

Range	-5°C – +35°C
Resolution	0.001°C
Accuracy	±0.01°C

Calculated Parameters and Accuracy

Calculations based on Valeport's proprietary DASH formula

Conductivity	±0.05 mS/cm
Salinity	±0.05 PSU
Density	±0.05 kg/m ³

Physical

Materials	Titanium Stainless Steel deployment weight
Depth Rating	500m
Dimensions	ø78mm x Length 264mm
Weight	2.0kg (in air) / 0.9kg (in water) 3.0kg (in air) / 1.8kg (in water) with deployment weight



Communications (set up and data offload)

USB Serial

Bluetooth v4 - low energy

Electrical

Battery	Internal rechargeable Li-ion battery pack
Battery life	Up to 5 days operations
Charging	USB Typically, 1 hour fast charge will give 12 hours operation

Software

iOS and Android Valeport Connect Pathway Edition for Bluetooth compatible mobile devices – instrument set up, data offload, display and translation to common data formats. Valeport's Ocean PC software, with both USB cable and Bluetooth connectivity, for instrument setup, data extraction, display and translation to common data formats.

Instrument and data time is synchronised to GPS, UTC.

Ordering

0660047-50	SWiFT SVP Profiler Titanium housing rated to 500m
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Supplied with	Deployment weight PC Bluetooth adapter USB interface and charging cable 1.5 A charger Valeport Connect software Operating manual System transit case
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