

## **SWiFT** SVP

## **Sound Velocity Profiler**

Designed from the outset with the intention of a seamless workflow, the SWiFT 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 the SWiFT App on iOS devices and instantly shared, in industry standard SVP formats through email and cloud services. Using the provided USB adapter or cable, Valeport's DataLog x2 software package provides further tools.

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.

**Product Details** 



**MULTI-PARAMETER** 





















With an operational battery life of up to 5 days and the convenience of charging via USB, SWiFT is intended for coastal, harbour and inland hydrographic surveyuse 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 to depth in fast flowing currents.

Sensor Specifications		
	with Valeport's digital time of flight sound ature compensated piezo-resistive pressure emperature 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 to +35°C	
Resolution	0.001°C	
Accuracy	±0.01°C	
Calculated Perameters	and Accuracies	
Calculations based on V	/aleport's proprietary DASH formula	
Conductivity	±0.05 mS/cm	
Salinity	±0.05 PSU	
Density	±0.05 kg/m³	
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 a	nd data offload)
USB Serial	
Bluetooth v4 - low energy	
Electrical	
Battery	Internal rechargeable battery pack
Battery life	Up to 5 days operations
Charging	USB Typically, 1 hour fast charge will give 12 hours operation
Software	
iOS App for Bluetooth compatible mobile devices - instrument set up, data offload, display and translation to common SVP formats, Android to follow. Valeport's Connect PC software, with both USB cable and Bluetooth connectivity, for instrument setup, data extraction, display and translation to common SVP formats.	
Ordering	
Sub Title	
USB Serial	
Bluetooth v4 - low energy	
0660047 50	SWiFT SVP Profiler Titanium housing rated to 500m
Supplied with	Deployment weight PC Bluetooth adapter USB interface and charging cable 1.5 A charger Valeport Connect software Operating manual System transit case
	uing development, Valeport Ltd. reserve the out notice, all prices, specifications, designs



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