





SWiFTplus Chlorophyll a

Multi-parameter profiler

Valeport's SWiFTplus Multi-Parameter Profiler with a Chlorophyll a sensor combines survey-grade sound speed, temperature and pressure sensor technology with Fluorometer observations. The package is completed with the convenience of Bluetooth connectivity, rechargeable battery and an integral GPS module to geo-locate each profile.

- Multi-parameter profiler
 - CTD, Sound Speed, Salinity, Density
 - Up to 32Hz sampling rate
 - Chlorophyll a sensor
- Bluetooth and USB connectivity
- Integral GPS receiver for geo-location of profile and time synchronisation
- Rechargeable Lithium-ion Battery
- Dedicated PC software and iOS portable device App

Valeport's Hyperion Fluorometer sensor range, when combined with SWIFT, delivers high performance measurements of Chlorophyll a in a compact & robust package.

DATA SHEET

Product Details





SOUND SPEED



OPTICAL



CONNECT SOFTWARE









Bluetooth

USB Rech

Battery



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Sensor Specification Chlorophyll a* **Excitation** 470 nm Detection 696 nm **Dynamic** 0-800 µg/l 2 gain settings: 0-40, 0-800 Range software controlled Minimum 0.025 µg/l Detection water) Linearity 0.99 R² 0.03 - 2 sec Response Time **Output Rate** 0.5 Hz - 32 Hz (free running) software controlled Conductivity# 0 - 80 mS/cm Range Resolution 0.001 mS/cm +0.05 mS/cm Accuracy Temperature (Platinum Resistance Thermometer) -5°- +35°C Range Resolution 0.001°C ±0.01°C Accuracy Pressure (Temperature compensated piezo-resistive pressure transducer) 50 Bar Range Resolution 0.001% FS ±0.01% FS Accuracy Sound Velocity (Digital time of flight sensor) 1375 – 1900 m/s Resolution 0.001 m/s Accuracy ±0.02 m/s Salinity# Range 0 - 42 PSU Resolution 0.001 PSU ±0.05 PSU Accuracy Density Range 990 - 1035 kg/m3 Resolution 0.001 kg/m³ Accuracy ±0.05 kg/m³

*Calibrated against Chlorophyll a in acetone solution #Calculated Accuracies. Calculations based on Valeport's proprietary

Physical dimensions

Materials	Housing: Titanium
	Sinker weight: Stainless steel
	Optical window: Sapphire glass
Depth rating	500m
Dimensions	Ø78mm x Length 307mm (with sinker weight)
Weight	2.7kg (in air) / 1.7kg (in water) including optional sinker weight

Communications (set-up and data offload)

Bluetooth v4 - low energy

USB Serial

Electrical

Battery	Internal rechargeable Li-ion battery pack
Charging	USB - Supplied mains AC adapter

Software

- · Connect iOS for Bluetooth compatible mobile devices:
 - instrument set-up, data offload and data display
- Connect PC for both USB and Bluetooth connectivity:
- instrument set-up, data offload and data display
- Both will export data in common file formats that are compatible with industry standard Hydrographic software packages
- Android App to follow

Ordering

0660047-50-FC SWiFTplus profiler with Chlorophyll a sensor - 500m rated

Supplied with:

Deployment weight

PC Bluetooth adapter
USB interface and charging cable and charger

Valeport Connect PC software \ iOS App Transit Case



