

World's Smallest Doppler Velocity Log

WL-11007 | DVL A50

Description

The DVL A50 is - by far - the world's smallest commercially available Doppler Velocity Log.

The A50 is establishing a new market standard with its high performance, ultra-small 4 beam setup, integrated AHRS/IMU assist, open interface protocol and low cost.

The DVL is designed with small ROVs/AUVs in mind where it can be mounted without adding significant weight or drag to the vehicle. The A50 is the perfect fit for small vehicles looking for professional navigation features. The combination of low cost and high performance is also making it very

attractive for much larger vehicles.

Key Features

- Adaptive algorithms enabling a very wide operational altitude of 0.05 - 50 meters.
- · Easily integrated using the built-in Ethernet and Serial 115200 baud UART 3.3V interface.
- Fully self-contained with no requirements for external computers, controllers or devices.
- Integrated status LED to confirm that the unit is powered on and if it has bottom lock.
- · Extremely small size enabling easy mounting and integration with other equipment.
- · Low power consumption.
- · Highly robust operation, also in areas with varying seabed conditions.
- · Integrated AHRS/IMUs for increased accuracy.

· Web based GUI with comprehensive diagnostic features. 10V - 30V

0.25A@12V

ELECTRICAL / INTERFACE

Input Voltage **Power Consumption** Power-on Current Surge Physical Interface

1.25A @ 12V 8 wires, 3m, with interface module (P

Indicator Protocols Communication

CONNECTIONS

(Power / Serial / Ethernet)
Status LED (Power, Lock)
WaterLinked API, PD0 (subset), PD6
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-1111	113200	Daud Serial	3.54, Ethernet	
			10-309 UART Filternel	

MECHANICAL Device diameter 66 mm Device height 25 mm Device weight (air) 250 grams

Device weight (water) 185 grams Depth Rating 1000 meters Materials SS316 (Housing)

PEEK (Transducer Caps) Operating Temperature | -5 °C to 60 °C

ACQUISTIC / PERFORMANCE

Transducer Frequency 1 MHz Transducer Setup 4-Beam Convex

Janus Array Transducer Beam Angle 22.5 degrees

Ping Rate 4-12 Hz (adaptive to altitude)

Sensor Assist Integrated AHRS /IMU (gyro/acceler-

ometer/compass) Minimum Altitude 5 cm

Maximum Altitude 50 meters Maximum Velocity 2.6 m/s Velocity Resolution 0.1 mm/s

>Long Term Accuracy ±1.01% (Standard version)

ORDERING

GUIDE

±0.10% (Performance version) WL-11007-1-S

PART NUMBER REVISION VERSION

Standard Performance



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