



## S2C USBL Buoy

UNDERWATER POSITIONING SYSTEMS

The USBL buoy is a fully integrated deployment-ready solution based on Evologics S2C USBL devices:

- USBL transceiver with a built-in battery, mounted to a floating unit with on-board PC, dual-antenna GNSS receiver and Wi-Fi access point
- On-board PC runs pre-installed SiNAPS, Evologics positioning software
- USBL data and control over Wi-Fi
- NMEA data stream for custom processing
- Light and compact no-foam buoyancy
- Packs up into a single case and can be easily transported, assembled and deployed by a single operator

Buoy configuration is available for all S2C USBLseries devices.

**OPERATING RANGE** 1000 - 10 000 m depending on model **GENERAL**\* FREQUENCY BAND HIgh-, mid- and low-frequency models TRANSDUCER BEAM PATTERN Directional and omnidirectional models S2C USBL-device TYPF SLANT RANGE ACCURACY 0.01 m BEARING RESOLUTION 0.1 degrees **USBL TRANSCEIVER** NOMINAL SNR 10 dB HOST INTERFACE Ethernet POWER CONSUMPTION 2.5 mW Stand-by Mode 2.7 W Receive Mode up to 70 W depending on model POWER SUPPLY Internal rechargeable Li-Ion battery, 156 Wh (NiMH optional) INTEGRATED AHRS Integrated xSens MTi 30 GNSS Dual antenna, GPS, GLONASS, optional RTK or Base-Rover configuration RADIO COMMUNICATION WiFi 2.4 GHz, dual antenna ON-BOARD PC Pre-installed SiNAPS Software

S2C 18/34 USBL Buoy

\* See S2C USBL series flyer for details.

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The applications include:

Positioning, navigation and communication for UUVs Diver tracking Underwater acoustic sensor networks

DIMENSIONS	
WEIGHT in air/buoyancy	
BUOYANCY	

ASSEMBLY

PHYSICAL\*

690 mm / 1550 mm

Total/main body

Over-/underwater

Delrin

19 kg/ TBC Composite carbon and glass fiber body

1138 x 280 x 2240 mm / Ø 180 mm

Dismantles into 3 parts, quick-release fasteners

## CONFIGURATION OPTIONS

REMOTE STATION

Direct connection from a PC (up to 50 m) or an optional rugged unit with powerful WiFi module, antenna, rechargeable battery, Ethernet (up to 200 m range)



\*Dimensions and weight for S2C 18/34 USBL Buoy in Delrin housing. Dimensions and weights of other builds vary.

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