

## Accessory Data Sheet

# BluePrint SeaTrac X010 USBL

The **BluePrint SeaTrac X010** mini-transponder beacon and acoustic modem is built around a robust broadband spread spectrum signalling scheme and DSP engine capable of responding to position interrogations from X150 beacons while simultaneously undertaking bi-directional data exchange with other SeaTrac modems.

### TECHNICAL SPECIFICATIONS

Depth rating	300m
Weight (in air)	0.3kg (0.66lb)
Weight (in water)	0.17kg (0.37lb)
Length	74mm (2.9in)
Diameter	59mm (2.32in)
Supply voltage	9V to 28V DC
Communications	RS-232 serial port

### ACOUSTIC SPECIFICATIONS

Remote Ranging	Yes
Remote Positioning (USBL)	No
Acoustic Range	1km radius horizontal, 1km vertical
Range Resolution	±50mm (dependent on VOS accuracy)
Velocity-of-Sound Range	1300ms <sup>-1</sup> to 1700ms <sup>-1</sup>
Beacon Velocity	Active Doppler compensation, up to 15kts (28kph)
Communications	Broadband spread spectrum encoding, 24-32kHz, 100 baud. Multi-tiered Acoustic Protocol Stack.
Packet Addressing	15 unique beacon identifiers, and broadcast to all capability.
Transmit Sound Pressure Level	~172dB re 1uPa @ 1m



Description and specifications are provided by BluePrint Subsea. We are a partner and do not own the rights to the technology.