



## POSIDONIA II

ULTRA-DEEP, LONG-RANGE USBL

**POSIDONIA II** is a USBL acoustic positioning system for high-accuracy / ultra-long range tracking of subsea vehicles. It offers enhanced performance with a new electronic cabinet (USBL-Box) including the most recent **iXBlue** acoustic signal processing and full compatibility with RAMSES 6000 synthetic baseline positioning system.

### FEATURES

- Extreme long-range up to 10 000 m and 0.2% of slant distance accuracy \*
- Low frequency band, full wideband, robust to noise and multipath
- Smoothly interfaces with **iXBlue** positioning building blocks (INS, RAMSES, motion sensors)
- Full Ethernet and **iXBlue** web-based user interface

\* Performance depends on environment/noise conditions

### BENEFITS

- Deep tow operations with no need for second tracking vessel
- High performance even in extremely adverse conditions
- Added flexibility and better performance
- Simple to deploy and operate

**APPLICATIONS** • Deep towfish tracking • AUV, ROV and any deep sea vehicle tracking  
• Pipe / cable laying operations



# POSIDONIA II

## TECHNICAL SPECIFICATIONS

### PERFORMANCE <sup>(1)</sup>

<b>Accuracy</b>	0.2% of slant range
<b>Range</b>	10 000 m

Optimum performance of **POSIDONIA II** can be achieved when used in conjunction with other **ixBlue** navigation equipment (OCTANS gyrocompass or PHINS/ROVINS inertial navigation system).

A complete and modular navigation solution comprising **POSIDONIA II**, RAMSES 6000 and PHINS/ROVINS offers ultimate performance with high position update rate and robust positioning.

### CHARACTERISTICS

	Deployable	Flush
<b>Transmitter</b>		
Source level	190 ± 3 dB ref 1µPa	192 ± 3 dB ref 1µPa
Bandwidth	8 - 14 kHz	8 - 14 kHz
<b>Receiver</b>		
Bandwidth	14 - 18 kHz	14 - 18 kHz
Signal	M-FSK	M-FSK
Height	420 mm	320 mm
Width Ø	580 mm	800 mm
Weight in air	34 kg	150 kg

### INTERFACES

<b>Man machine interface</b>	<b>ixBlue</b> web-based user interface and DELPH RoadMap display software
<b>Protocols</b>	Industry standard (NMEA0183, binary)
<b>GPS</b>	Any external GPS, DGPS, and RTK receiver
<b>Pitch / roll / heading</b>	Input <b>ixBlue</b> 's inertial sensors and standard sensors
<b>Sound velocity</b>	Sound velocity correction (ray bending, velocity error)
<b>Pressure sensor</b>	External pressure sensor, optional OCEANO transponder sensor
<b>External synchronisation</b>	Input / output

(1) Performance depends on environment / noise conditions