

# RAMSES

# NEXT-GENERATION LONG BASELINE MEDIUM FREQUENCY AND LOW FREQUENCY POSITIONING SYSTEMS

**RAMSES** is an acoustic synthetic baseline positioning system with self-contained computing, for simple real-time sparse array subsea navigation. Tightly coupled with **iXBlue** inertial navigation system (INS), it delivers extreme precision and robustness in challenging acoustic operational environment. Available in MF and LF versions (medium frequency for most applications and low frequency for ultra-long range applications), **RAMSES** is part of **iXBlue INERTIAL-ACOUSTIC SOLUTIONS** for underwater positioning and navigation. The solution combines **RAMSES** system with GAPS and POSIDO-NIA **iXBlue** ultra-short baseline (USBL) positioning systems.

### **FEATURES**

- Sparse array positioning functionality and selfcalibration capability
- All in one self-contained system, including real-time position computation
- Decimeter range measurement accuracy
- Open solution environment: operates with **iXBlue** and third party transponders

### BENEFITS

- Quick deployment, reduced number of transponders, and calibration-free
- Requires no top-side computer and no umbilical, enabling immediate and simplified mobilization
- Highest precision navigation, smooth and drift free positioning
- Operable within existing deployment fields, reducing operation costs

• High precision AUV/ROV subsea navigation • Subsea construction • Metrology • Site survey • Oil and gas • Marine construction • Scientific • Defense



# **RAMSES**

## TECHNICAL SPECIFICATIONS

# PERFORMANCE / CHARACTERISTICS

Performance / characteristics	
Operating frequency	

Distance measurement accuracy<sup>[1]</sup>

Maximum range<sup>[1]</sup>

Position accuracy (INS aided, 2 transponders)

Depth rating Transponders

**USBL** Compatibility

Interfacing

Power supply Construction

Weight (air / water) kg Size (OD x length) mm

### RAMSES 6000 (LF band)

8 – 17.5 kHz < 10cm 10 000 m 10 cm

6 000 m

iXBlue OCEANO LF range

With iXBlue POSIDONIA iXBlue web-based MMI Ethernet, Serial

External 12 / 36 Vdc / 9W

Titanium 11 / 5.5 505 x 126

#### RAMSES (MF band)

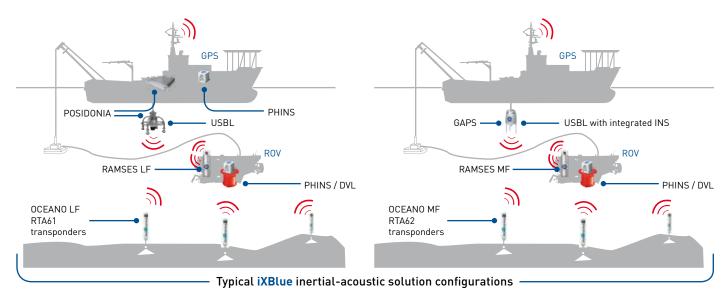
20 – 30 kHz < 10 cm 4 000 m 10 cm 6 000 m

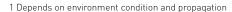
iXBlue OCEANO MF range Compatibility mode <sup>[2]</sup> With iXBlue GAPS iXBlue web-based MMI

Ethernet, Serial

External 12 / 36 Vdc / 9W Duplex Stainless Steel

18 / 12 505 x 126





<sup>2</sup> RAMSES MF

