Gaps Series is an USBL positioning system that has been designed to provide accurate location, positioning and tracking of subsea assets and divers, from ultra-shallow to deep water depths. Gaps Series embeds a FOG-based motion sensor for vessel positioning redundancy and subsea telemetry. It is compatible and third-party equipment.

Inertial Navigation Systems

Advans Ursa
Advans Vega
Advans Lyra

Horizontal position (without GNSS)

Accuracy
1.0° ± 0.4% DT (CEP50)
0.2° ± 0.2% DT (CEP50)
0.1° ± 0.1% DT (CEP50)

Heading
4 mils RMS
1 mil RMS
0.5 mil RMS

Roll and pitch
1 mils
0.5 mil
0.2 mil

Weight
5 kg / 4 kg
5 kg / 2 kg

Position accuracy with DVL-aided performance (straight line from origin)

0.2% ± 0.2% TD (CEP 50)
0.1% ± 0.1% TD (CEP 50)
0.05% ± 0.05% TD (CEP 50)

Position accuracy with DVL-aided performance (area survey pattern)*

0.04% ± 0.04% TD (CEP 50)
0.02% ± 0.02% TD (CEP 50)
0.01% ± 0.01% TD (CEP 50)

Phins Compact C7
Phins Compact C5
Phins Compact C3

Heading with GPS / USBL / LBL
0.01° secant latitude RMS

Roll and pitch dynamic accuracy (no aiding)
0.01° RMS

Heave accuracy (Smart Heave)
2.5 cm or 2.5% RMS

Position accuracy
With DVL
0.1% ± 0.1% TD (CEP 50)
No aiding for 2 min / 5 min
3 m / 20 m (CEP 50)

Pure inertial mode
0.6 nm / hour (CEP 50)

Phins Surface

Up to 200°

Gaps M5

AUVDivers

Up to 200°

Gaps M7

Oceano R5 is the latest version of iXblue’s acoustic release. It is ideal for releasing up to 2,500 kg payload in harsh environment down to 6,000 m water depth. Fitted with a positive drive-off release mechanism, it is extremely reliable. The combination of an optimized design in a robust Super Duplex Stainless Steel (SDSS) housing offers outstanding corrosion resistance.

Reliability
Corrosion resistant SDSS housing
Positive drive-off mechanism
Back-up cell for release
Compach design

Performance
Unrivaled battery life (60 months @ 0°C)
Alkaline off-the-shelf batteries
Capable of releasing up to 2,500 kg payload
Operable down to 6,000 m water depth

Load characteristics
2 500 kg SWL / 2 500 kg RL / 5 000 kg TL

Overall dimensions (dia x L)
136 x 676 mm

Overall weight (air / water)
25 kg / 19 kg

Operating frequency
Low frequency (8.0 to 16.0 kHz)

Transducer beam pattern
Omnidirectional (horizontal plan) / Hemispherical (vertical plan)

Operating life
60 months @ 0°C (Alkaline)

Range
More than 10,000 m depending on ambient noise and acoustic propagation conditions

MULTIPURPOSE UNMANNED SURFACE VEHICLE

DriX is a multi-mission USV platform. It offers unmatched seakeeping (up to sea state 5) and high-speed transit capabilities (up to 14 knots). Benefiting from 10 days of endurance at sea, it is a sea-proven and versatile unmanned platform able to host a wide range of payloads for military or research missions.

Thanks to its open architecture, DriX can be tuned to fit the needs of any military integrator and can be used to conduct diverse military operations:

• Military bathymetry
• Rapid Environmental Assessment (REA)
• Anti-submarine warfare
• Emergency disaster relief
• Divers’ tracking

Thanks to its certified Deployment System (DDS), DriX can be deployed from the coastline, from an amphibious ship dock or from a frigate davit. Requiring a reduced crew, the system ease of use and efficiency makes as routine and easy to use as a helicopter or a RHIB. Completing and enhancing existing assets, DriX brings provision of warning and an extra layer of defense whilst keeping humans in safer environments.