



# AD NAVIGATION

SPECIALIST IN PRECISE GNSS NAVIGATION

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## XR2

### THE MOST ACCURATE PPU ON THE MARKET NOW 75 % LESS IN VOLUME

To meet the exacting demands of navigating and docking large vessels, the measurement of low speed, precise heading and Rate of Turn is of outmost importance to the Pilot. And when size and weight are almost as important, the 2nd edition of the 100 % wireless ADX XR Concept – the XR2 is now smaller, lighter, more rugged and even more durable.

The XR2 system derives measurements using state-of-the-art GPS/GLONASS/BeiDou and Galileo Real Time Kinematic (RTK) techniques along with extremely accurate RoT sensors.

### MORE COMPACT AND STILL WIRELESS

XR2 is a wireless Potable Pilot Unit (PPU) sensor that communicates with the Pilots portable ECS system via standard wireless technology. The complete system comprises of only three small, light, ruggedized POD units, making it ideal for transportation and operation under various conditions.

### UNIQUE INTERPOD UHF NETWORK

XR2 employs robust UHF network communication between the XR2 PODs to boost the signal penetration. By this, any problems with system communication because of interference or challenging ship structures are history.

### PUT IT IN YOUR POCKET

We have listened to every Pilot we have met, and everyone says that size and weight do count. We have now reduced the size of nearly 75 % in volume, which means that the size is smaller, the weight is lighter, and the battery life is almost unheard of.



**24 HOURS!**  
**BEST IN CLASS**  
**PUT IT IN**  
**YOUR POCKET**



### BENEFITS

For maximum safety and efficiency during maneuvering  
No Cables / No Connectors  
Tracking all satellites by default: GPS/GLONASS/BeiDou/Galileo Installed and operational in seconds.

**PERFORMANCE:**

|                      |                       |
|----------------------|-----------------------|
| Bow and Stern speed: | 1 cm/sec (0.02 knots) |
| Heading Accuracy:    | 0.01° *               |
| Rate of turn:        | 0.05°/min             |
| Position Accuracy:   | 1 cm (RTK mode)       |
| Vertical:            | 2 cm (RTK mode)       |

**FEATURES:**

|                                 |                  |
|---------------------------------|------------------|
| Weight of system w/o laptop:    | 3 x 600 gram     |
| Dimension each pod (L x W x H): | 10 x 10 x 5 cm   |
| Battery Life                    | 24 Hours         |
| Wireless standard:              | WLAN 802.11b/g/n |
| Ingress Protection Rate:        | IP67             |

WLAN Range: 200 M – Line of sight (MPU to Tablet)

UHF Range: 300 M – Line of sight (Pod to Pod)

Independent AIS Receiver or Pilot Plug Connectivity.

Integrated power management and charger intelligence.

**APPLICATIONS**

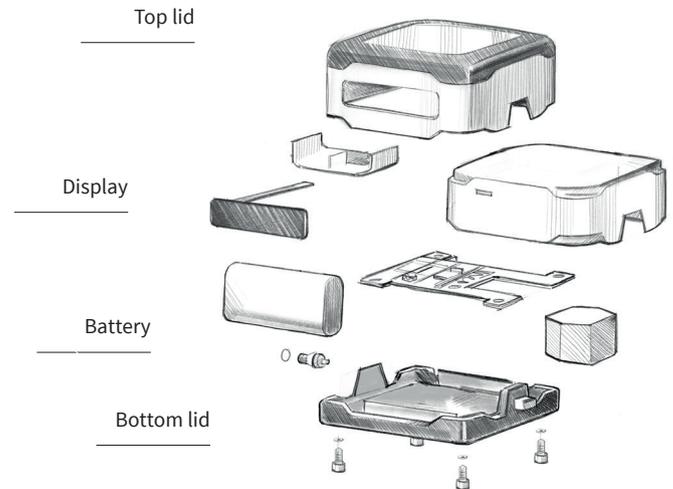
Laser Docking Replacement  
 Precise maneuvering and docking  
 FPSO and SPM Operations  
 Vessel Trails  
 Rig Move  
 Ship to Ship Operations  
 Lock approach

**SOFTWARE**

The XR2 is compatible with all Multi-Platform Pilot Software Packages on the market.

Among others:

- Orca Pilot X
- SEAiq
- Transas Pilot Pro
- Qastor



\* At 20-meter Baseline