AD NAVIGATION

Expert Users Need Expert Tech

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Specialists in precise GNSS navigation



XR2

Independent PPU Sensors

To meet the demands of navigating and docking large vessels, accurate low speed, precise heading, and rate of turn measurements are crucial. The wireless ADX XR Concept – the XR2 – is now smaller, lighter, more rugged, and even more durable. For maximum safety and efficiency during maneuvering. Installed and operational in seconds.

> ***"Ten years of experience with the ADX PPU system has taught us we can trust the ADX more than the onshore Laser Docking System."***
>
> THOM VAN DER HOFF PILOT
> PORT OF ROTTERDAM

XR2

Specialists in precise GNSS navigation



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 and fully independent RoT sensors.

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.

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.

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.

- **Ultra-Compact and Lightweight**
- **Exceptional Accuracy and Reliability**
- **Versatile and Durable**

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)
WLAN Range	200 M – Line of sight (MPU to Tablet)
UHF Range	500 M – Line of sight (Pod to Pod)
FEATURES	
Weight of system w/o laptop	3 x 600 gram
Battery Life	24 Hours
Wireless standard	WLAN 802.11b/g/n
Ingress Protection Rate	IP67
Dimension each pod (L x W x H)	10 x 10 x 5 cm
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 • Wärtsilä Pilot Pro • Qastor	

Scan to find out more about the XR2
Piloting with AD Navigation
Ease of mind - every time!

AD NAVIGATION

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