www.adnav.com
N, 59°16.274' E, 10°26.156'

Ultra-Precise Approach & Docking

N 59° 16.274' E

ADX XR

EXTREME RELIABILITY - SAFE, ACCURATE, EFFICIENT

The accuracy and reliability of the manoeuvring observations provided by the ADX XR PPU system are of a much higher level compared to the shipborne systems and shore based laser docking systems.

AD NAVIGATION

SPECIALISTS IN PRECISE GNSS NAVIGATION

Ultra-Precise Approach and Docking

SPECIALISTS IN PRECISE GNSS NAVIGATION

PERFORMANCE (2sigma):	
Position Accuracy	1.5cm (RTK mode) 0.8m with EGNOS/WAAS 2 meters in uncorrected mode
Bow and Stern Speed	1 cm/sec (0.02 knots)
Vertical/Squat	2cm (RTK mode)
Heading accuracy	0.01 deg (20 m baseline)
Rate of Turn	0.1 deg/min
FEATURES:	
Weight of system w/o laptop	4.2 kg
Dimension each pod (L x W x H)	14 x 14 x 10 cm
Robustness (drop test)	1.5 m down to concrete
Battery life	11 Hours(UHF), 7 Hrs (DualModem)
Wireless standard	WLAN 802.11b/g
RTK Corrections via UHF radio or Dual Modem (GPRS/UMTS/HSDPA) Integrated power management and charger intelligence	
BENEFITS:	
For maximum safety and efficiency during maneuvering	
No Cables / No Connectors	
GPS and GLONASS satellite tracking, prepared for Galileo	
Installed and operational in seconds	
AIS and VTS traffic image available	
APPLICATIONS:	
Laser Docking Replacement	Vessel Trails
Precise maneuvering and docking	Ship to Ship Operations
FPSO and SPM Operations	Rig Move

The most accurate PPU on the market

To meet the exacting demands of navigating and docking large vessels, the measurement of low speeds, precise heading and Rate of Turn is of utmost importance to the pilot. The ADX XR system derives these measurements using state-of-the-art GPS/GLONASS Real Time Kinematic (RTK) techniques along with precise RoT sensors.

Compact and wireless

ADX XR is a wireless PPU system that communicates with the Pilot's portable ECS system via standard wireless technology.
The complete system comprises only three small, light, ruggedized POD units, making it ideal for transportation and operation under various conditions. The ADX XR has been designed in accordance with the POADSS concept (Portable Operational Approach and Docking Support System), which was developed under the european Marnis project.

RTK Signals via dual modem

A unique feature of the ADX XR PPU is the incorporation of two modems allowing reception of RTCM RTK corrections via two different UMTS providers. Automatic selection of provider minimizes loss of corrections, resulting in almost zero downtime. Continuous high precision RTK mode during docking and lock approach translates to extreme reliability.

AD NAVIGATION
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