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Digital Yacht launch new GPS160 TriNav positioning sensor

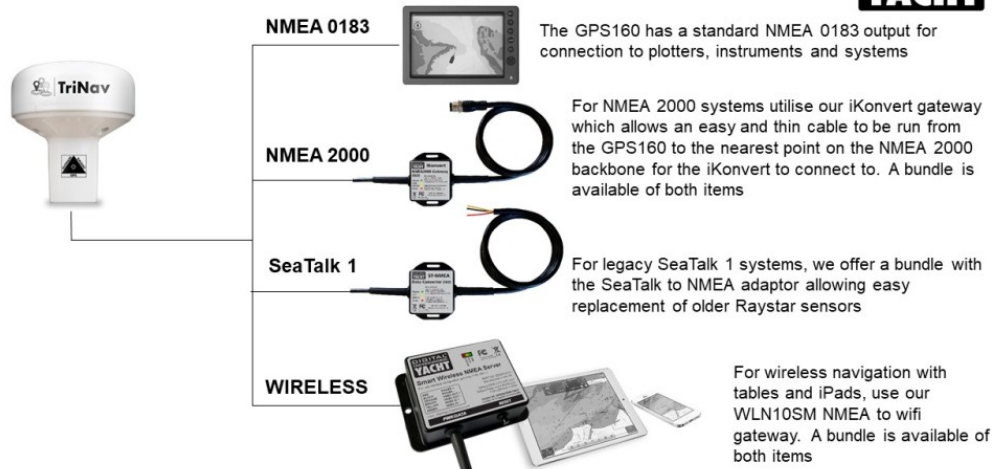
Digital Yacht have unveiled their TriNav GPS160, a new, high performance positioning sensor using GPS, Glonass and the new Galileo satellite systems

for exceptional positioning accuracies and redundancies. Typical accuracy is better than 1m and data can be set to output at up to 18Hz for smoother plotter track displays. TriNav software technology also improves positioning vulnerabilities that could occur through spoofing and local interference.

The device can be field programmed for a variety of modes such as single GNSS operation (eg Galileo only) as well as output configurations such as update rate, NMEA sentence structure etc

The GPS160 is available with a NMEA 0183 output (4800, 38400 and 115200 baud programmable) and a USB variant for PC, MAC and Linux. For NMEA 2000 systems, a bundle is available with a Digital Yacht iKonvert NMEA 2000 gateway allowing easy and flexible NMEA 2000 installation without the need for cumbersome drop cables.

Interfacing Options (NMEA Version)



The GPS160 also supports a simple external MOB (man-over-board) switch or device. When activated, the GPS160 creates a “synthesised” AIS SART MOB message on its NMEA output which can be interfaced with a local plotter for MOB identification. Most modern plotters support this with a clear MOB icon and instant bearing and distance information to navigate to the casualty.

MOB Feature



- GPS160 accepts an external switch input to activate internal MOB function
- Position is automatically saved and GPS160 calculates and outputs a "synthetic" AIS MOB NMEA sentence allowing compatible plotters to mark the MOB position automatically – just as if an AIS SART had been activated (\$AIVDM with Message 1 and 14)
- Easily installed with a simple push button switch or for connection to outboard kill switch and tether
- Can also function with 3rd party wireless MOB systems with any switched alarm output



Galileo is the new global navigation satellite system (GNSS) that has been developed over the past two decades. It joins the GPS and GLONASS systems and offers mariners a 3rd reliable positioning source. It is planned to be fully operational in 2020.

The EU funded €10 billion project is named after the Italian astronomer Galileo Galilei. One of the aims of Galileo is to provide an independent high-precision positioning system so European nations do not have to rely on the U.S. GPS or the Russian GLONASS systems which could be disabled or degraded by their operators at any time. The use of basic Galileo services will be free and open to everyone. Galileo is intended to provide horizontal and vertical position measurements within 1m precision and better positioning services at higher latitudes than other positioning systems.

There are currently 22 satellites in usable condition (satellite is operational and contributing to the service provision), 2 satellites are in "testing" and 2 more are marked as not available. The final constellation should be deployed by 2020 and will consist of 30 satellites (24 operational and 6 spares).

The GPS160 is priced at €165 and is available now. Also available are wireless and SeaTalk variants for older systems. Download the full information pack from the link below or visit www.digitalyacht.eu.com

DIGITAL YACHT 2019 IS ALL ABOUT NEXT GENERATION NAVIGATION, COMMUNICATION AND ENTERTAINMENT SYSTEMS FOR YOUR BOAT. BOATING SHOULD BE FUN, SAFE AND EASY AND OUR PRODUCTS INTEGRATE INTO EXISTING AND NEW BOAT NETWORKS TO BRING A POWERFUL DIMENSION TO YOUR ON-BOARD ELECTRONICS.

Contacts



Nicholas Heyes
Press Contact
CEO
Digital Yacht CEO
nick@heyas.com
01179554474



Laura Brossard
Press Contact
Marketing Assistant
PR & Marketing
sales@digitallyachtamerica.com
UK 01179 55 44 74 (US 978 277 1234)