



SAIL BOAT



MOTOR BOAT



SUPERYACHT



WORK BOAT



SPORT FISHING



COMMERCIAL FISHING

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Sneak Peek...



NAVDoctor

NMEA 2000 networks are used extensively for interfacing marine electronic products. The technology is based on a robust Canbus architecture, but one bad device, cable or termination can have a detrimental effect on performance. Fault finding can be time consuming and tricky.

NAVDoctor is a portable NMEA 2000 network diagnostic tool/tester which quickly allows you to check and diagnose the NMEA 2000 network. It combines the functionality of existing NMEA 2000 display programs and test equipment into a single, cost effective, simple plug 'n play box.

It's self powered from the network and creates a local wifi point for a mobile phone, tablet or PC to connect. Once connected, you simply access functions through a web browser so there's no complicated software to install.

NAVDoctor is an essential tool for every marine electronics technician or installer as well as serious DIY boat owners and also offers the capability of printing a network health check certificate to validate an installation and improve customer service. Find out more inside...

**NMEA 2000
Network Diagnostics
Made Easy**



DIGITAL UPDATE

August 2020

NEW Product! NAVDoctor NMEA 2000 Diagnostics Tool

NEW Solutions! AIT5000 integration with NKE instruments, pilot and Weather 4D app

NEW Solutions Guide! Lots of great ideas to integrate Digital Yacht products

NEW Product! DST810 Speed, depth, temp and attitude transducer

Stay Safe! We're Open & Working Safely Despite The Covid Pandemic



NAVDoctor

NMEA 2000 Diagnostics Tool

Easy fault finding & diagnostics for NMEA 2000 networks

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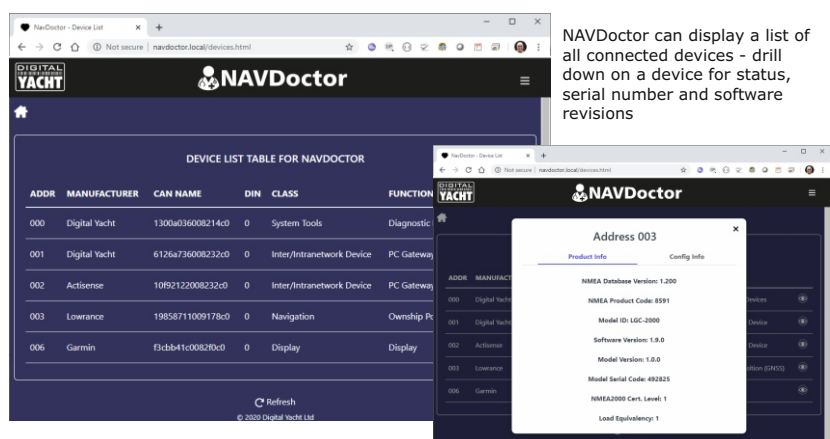


Easy plug 'n play installation

- No special apps or software required – built-in web interface
- Works on any mobile device; iOS, Android, Windows, Mac, etc
- Connect wirelessly and view data through a web browser
- Lists all devices on the network
- Displays all PGNs on the network
- Drill down into a particular PGN and decode/display its data
- Display and log the RAW NMEA 2000 data
- Check the network health, voltages, bus load, error frames, etc.

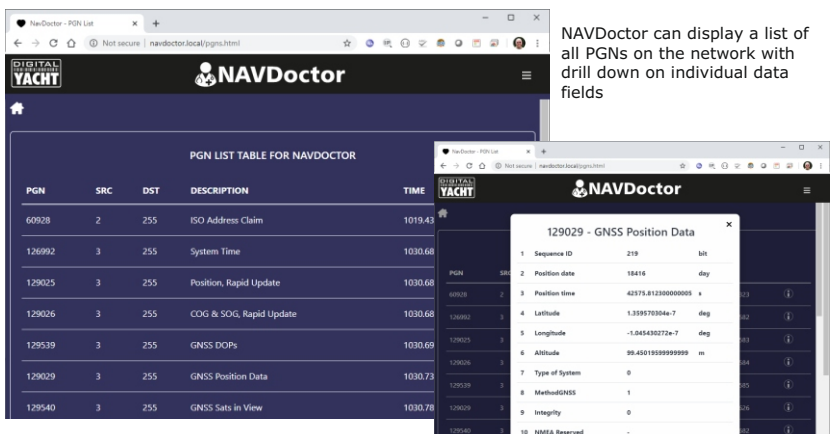
NAVDoctor will be available in September 2020 - email navdoctor@digitalyacht.co.uk for a full preview & special offer launch pack.

DIGITAL UPDATE August 2020



NAVDoctor can display a list of all connected devices - drill down on a device for status, serial number and software revisions

ADDR	MANUFACTURER	CAN NAME	DIN	CLASS	FUNCTION
000	Digital Yacht	1300a35008214cd	0	System Tools	Diagnostic
001	Digital Yacht	6126a736008232cd	0	Inter/Intranetwork Device	PC Gateway
002	Actisense	10f9212008232cd	0	Inter/Intranetwork Device	PC Gateway
003	Lowrance	19858711009178cd	0	Navigation	Owship P
006	Garmin	Edcb41c08210cd	0	Display	Display



NAVDoctor can display a list of all PGNs on the network with drill down on individual data fields

PGN	SRC	DST	DESCRIPTION	TIME
60928	2	255	ISO Address Claim	1019.43
126992	3	255	System Time	1030.68
129025	3	255	Position, Rapid Update	1030.68
129026	3	255	COG & SOG, Rapid Update	1030.68
129539	3	255	GNSS DOPs	1030.69
129029	3	255	GNSS Position Data	1030.73
129540	3	255	GNSS Sats in View	1030.78



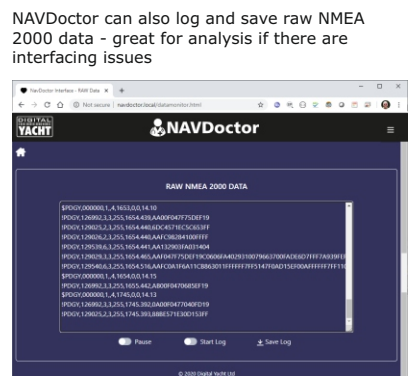
Welcome to the Network Health Page

Supply Voltage: 12.04V, Bus Load: 4.00%,
 Bus Voltage: 2.18V, Network Voltage: 0.02V

Number of Devices on Network: 6

Error Frames: 0

NAVDoctor also checks for physical status such as bus voltages and frame errors



NAVDoctor can also log and save raw NMEA 2000 data - great for analysis if there are interfacing issues

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SP00V000001.1.4.163505.14.19
PO0V126992.3.255.1654.436A08080477208F19
PO0V129025.3.255.1654.436A08080477208F19
PO0V129026.3.255.1654.436A08080477208F19
PO0V129539.3.255.1654.436A08080477208F19
PO0V129029.3.255.1654.436A08080477208F19
PO0V129540.3.255.1654.436A08080477208F19
PO0V129025.3.255.1654.436A08080477208F19
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PO0V129540.3.255.1654.436A08080477208F19
  
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Find out more at www.digitalyacht.co.uk



AIT5000 Class B+ Transponder

Integrate with NKE & Weather 4D

**DIGITAL
YACHT SOLUTIONS**

iPad Navigation with AIS, GPS, Instruments & Autopilot Control

Here are some ideas from a real life Digital Yacht AIT5000 installation with iPad connectivity and integration with world beating NKE sailboat instrumentation and autopilot control. NKE is a French company that has been developing instruments and pilots dedicated to the ocean yacht racing market for more than 30 years. Look at any professional sailing boat and you'll see they are the instrument system of choice. Combine with our AIT5000 Class B+ AIS transponder and an iPad running the advanced Weather 4D app and you've an amazing integrated system.

The AIT5000 is a Class B+ transponder utilising the latest SOTDMA 5W technology for faster, super reliable position reports. It has a built in VHF-AIS antenna splitter too so there's no need for extra masthead antenna clutter as the VHF antenna can be shared with VHF and AIS.

The AIT5000 also features a built in WiFi interface allowing connection to the iPad. AIS targets and GPS position in real time is then overlaid on the Weather 4D application. The picture below shows a screen shot of the app with AIS and GPS data. Tap on a target for boat details and see their heading with a neat heading vector.



You can see the yacht underway in the screen shot to the right and note how there's a wind data instrument display attached to the boat's icon so you can instantly and easily assimilate all the boat data at a glance. Weather data can be downloaded as an animated forecast from the web and on the same display, there's an overlay of wind data. You can also have barometric pressure, wave and temperature information.

DIGITAL UPDATE August 2020



The AIT5000 has a built in VHF-AIS antenna splitter

The wireless interface on the AIT5000 is bi-directional so route data can then be sent back and can control an autopilot. Weather 4D outputs PDB, BOD, BWC, RMB, XTE and WPL messages.

AIT5000 - The Navigation Hub

The AIT5000 also has traditional NMEA 0183 and NMEA 2000 interfaces so AIS data can also be displayed on traditional multi function displays and plotters. There's a USB connection for programming and we recommend a NMEA-USB adaptor for permanent connection to a PC or MAC.

The wireless interface supports up to 7 connected devices so multiple iPads or tablets can be utilised throughout the boat - even running different apps.

NKE use a proprietary interface called TopLine but they also offer a simple interface box to output NMEA instrument data to and from the AIT5000. Some systems also have a native NMEA 0183 output so getting access to the data is easy.



Other apps too...

The AIT5000 is compatible with 100s apps for Android and iOS including Navionics, iNavX, NavLink, SeaPilot, iSailor, SailGrib, AquaMaps, NV Charts and iRegatta. With tablet and iPad navigation you're not tied to proprietary formats - choose the best charts for your region and functions you require. Check our blog at www.digitalyacht.net for the latest app reviews too.

www.digitalyacht.co.uk



Great New Ideas For 3rd Party Interfacing

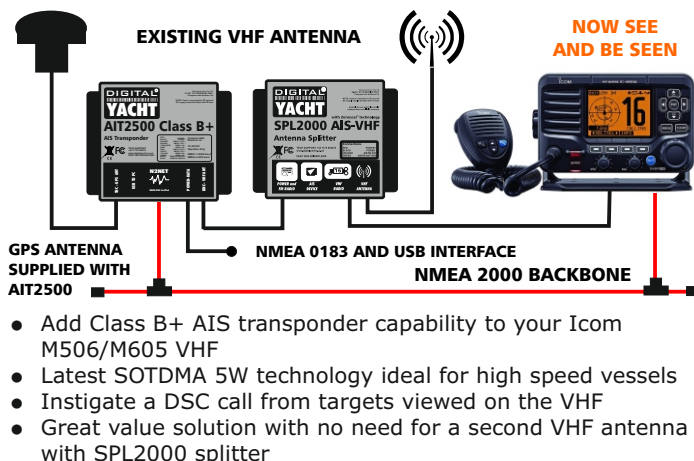
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Digital Yacht Solutions Guide - Download Now!

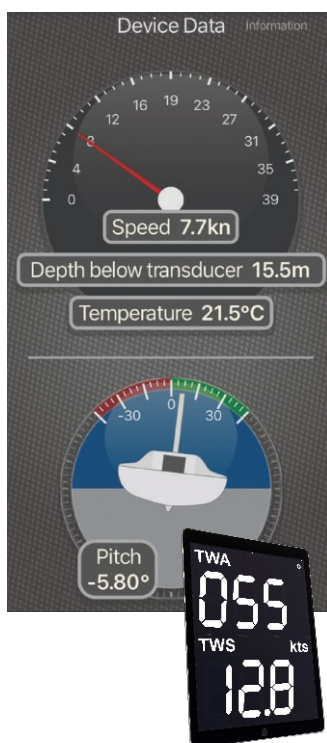


Digital Yacht Solutions is all about integrating our range of products with 3rd party systems to maximise value and functionality. A new 12 page catalogue of ideas is available to download from our blog site at www.digitalyacht.net - just search Solutions. There's a special section too on portable and iPad navigation.

The example solution here shows how an Icom M506 VHF can be integrated with our latest AIT2500 transponder, to not only show AIS targets, but also initiate DSC calls. Great ideas, great systems and great value!



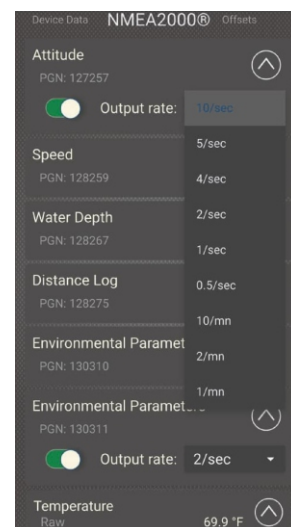
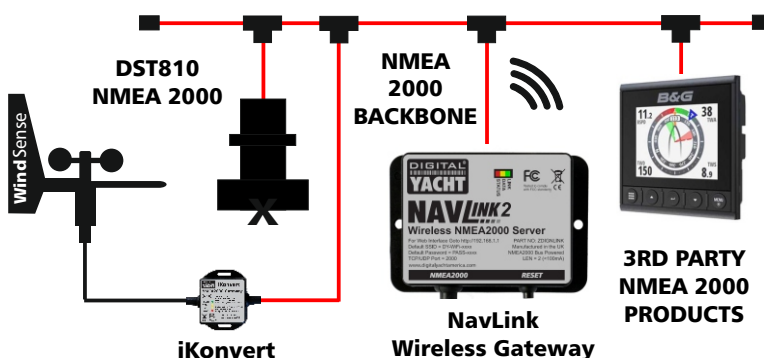
New DST810 Depth, Speed, Temperature & Attitude Sensor



Our new DST810 is a NMEA 2000 depth, speed and temperature transducer with the addition of an attitude sensor for pitch, heel and roll. It also features a BlueTooth interface which can be used for advanced calibration such as speed corrections based on heel and depth offset. Calibrations are stored in the transducer allowing corrected data to be used across the NMEA 2000 network.

The drawing below shows a typical iPad based solution for boat instrumentation with a NMEA 2000 backbone and our WND100 wind sensor. Data is sent via the NavLink gateway.

Product	GBP
DST810 NMEA 2000	350.00
WND100 WIND SENSOR	250.00
IKONVERT NMEA 0183/2000	115.00
NAVLINK 2 WIFI GATEWAY	175.00
NMEA 2000 STARTER KIT	65.00





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