



NAVAAlert



NMEA 2000 Alert System

New Product Introduction

Part Number: ZDIGNALERT

NMEA 2000 INTEGRATED ALERT SYSTEM (SRP £240/€300/US\$360)

www.digitalyacht.co.uk

Launch: METS 2021 Availability: January 2022

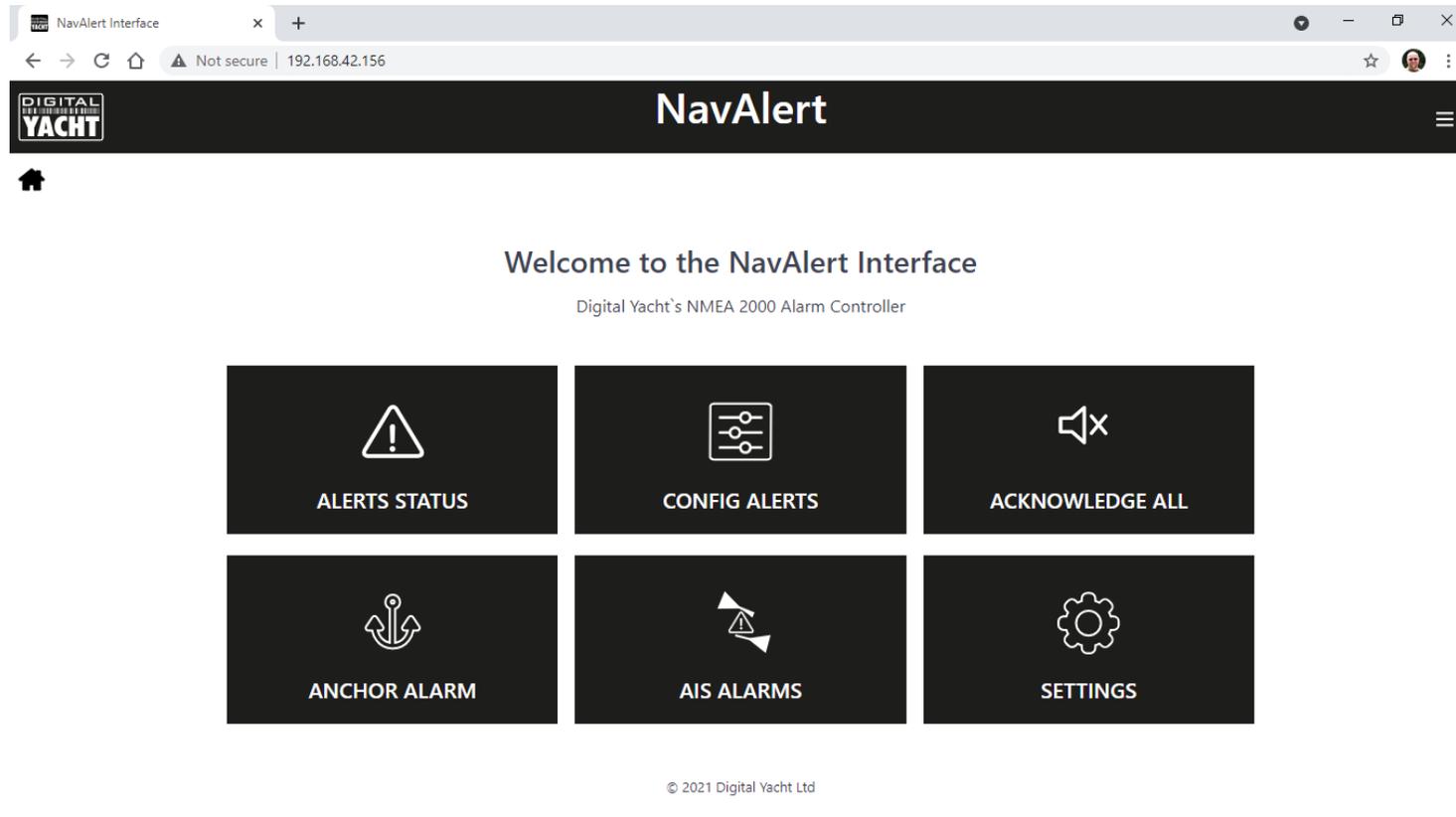
NAVAlert



A waterproof, loud, panel mount buzzer with integrated silence switch is supplied as standard allowing NavAlert to be hidden if required. It also supports multiple alarms

- The one stop alerting & monitoring solution for boat data
- Set a configurable audio and visual alarm for any parameter on the NMEA 2000 network – for instance: shallow depth, low fuel level, off course, engine temp, tank levels, low voltage etc
- Sophisticated anchor, MOB and anti collision alarms built in
- Wifi interface for set up and alerting using any phone or tablet with a browser
- Relay the alert via the NMEA 2000 bus to a multi function display (currently supported by Garmin) to deliver a pop-up alarm window
- Relay the alarm to Digital Yacht’s optional NavChat device for a clear spoken indication of the alert
- SMS alerting through Digital Yacht’s 4G Connect & 4G Xtream systems to a mobile – ideal for remote monitoring of the boat.

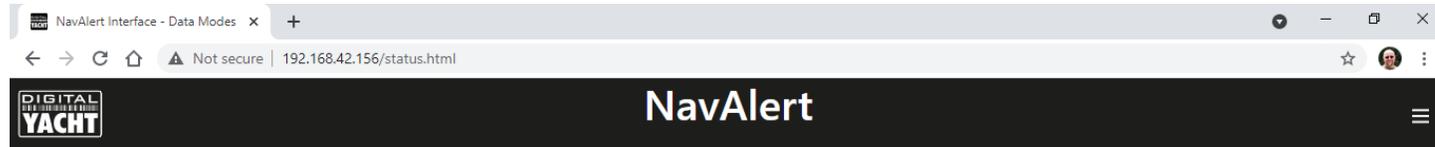
NAVAlert



Operation is simple. Simply search for the wifi network that NavAlert creates and connect via a smart phone or tablet. Open a browser and connect to NavAlert and you're presented with a clear graphical interface allowing easy setup, configuration and viewing of the alerts and network data.



NAVAlert



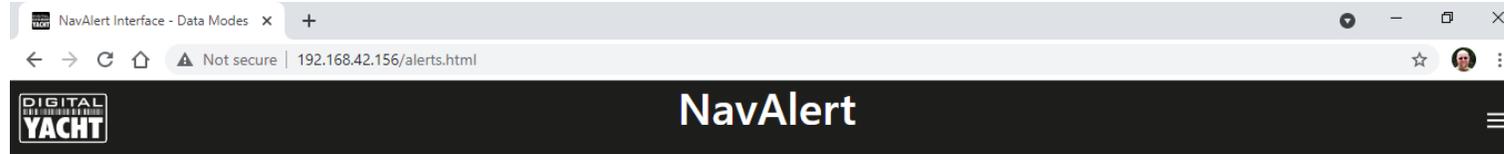
ALERTS STATUS				
DATE	TIME	ALARM DESCRIPTION	STATUS	COUNT
30/06/2021	10:54:43	Door open or locking device not secured (representative)	DISABLED	1
30/06/2021	10:54:52	Seawater Flow - Low	NORMAL	1
30/06/2021	10:55:01	Phase C - Frequency Unavailable	ACTIVE	1
30/06/2021	10:55:10	Phase B Frequency - High	SILENCED	1
30/06/2021	10:55:28	Overload	ACK'D	1
30/06/2021	10:55:34	Communication Error	ACK'D	1
30/06/2021	10:55:42	Rotation - wrong way	ACK'D	1
30/06/2021	10:55:51	Superheater outlet temp - high	ACK'D	1
30/06/2021	10:58:11	Lat / Long Function - Unavailable	NORMAL	1
30/06/2021	11:12:43	Bilge level - high	DISABLED	1
30/06/2021	11:12:58	Bathing Platform Up Sensor Failure	NORMAL	1
30/06/2021	11:13:16	Bilge Pump Running Sensor Fail	ACTIVE	1

The alert status page allows for a quick overview of the alarms that have been set, activated, acknowledged and silenced. There's also an alarm logbook.



Alarms can also be acknowledged/silenced via the mute button fitted to the unit or via a connected multi function display

NAVAlert



CONFIG ALERTS ADD NEW ALERT

PGN	SOURCE	NAME	FIELD	VALUE	LIMIT	UNIT	TYPE
127251	128	RateofTurn	Rate_of_Turn	76354	> < =	0	rad/s

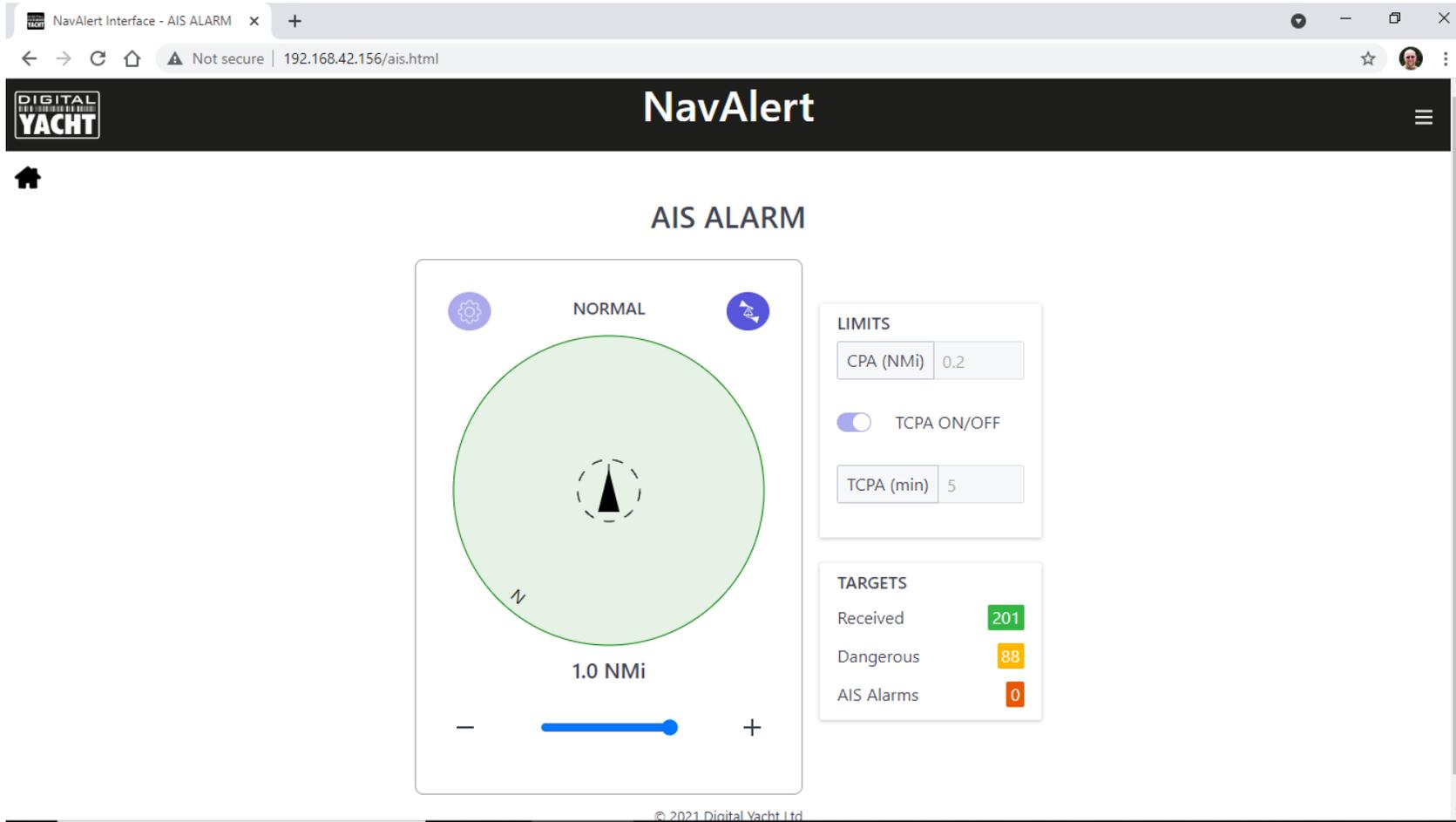
Save Mute Clear

Easily add multiple alerts

Set an alert for any NMEA 2000 PGN (data field) and also the source of the data

See current value and define a minimum, maximum or exact level at which to alert

NavAlert



The screenshot shows the NavAlert web interface in a browser window. The browser address bar shows "192.168.42.156/ais.html". The interface has a black header with the "DIGITAL YACHT" logo and the "NavAlert" title. Below the header is a home button and the "AIS ALARM" title. The main content area features a radar plot on the left and control panels on the right. The radar plot is a green circle with a 1.0 NMI range, a north arrow, and a "NORMAL" status indicator. The control panels include "LIMITS" (CPA (NMi) 0.2, TCPA ON/OFF toggle, TCPA (min) 5) and "TARGETS" (Received 201, Dangerous 88, AIS Alarms 0). A blue slider is at the bottom of the radar plot.

NavAlert Interface - AIS ALARM x +

Not secure | 192.168.42.156/ais.html

DIGITAL YACHT

NavAlert

AIS ALARM

NORMAL

1.0 NMi

LIMITS

CPA (NMi) 0.2

TCPA ON/OFF

TCPA (min) 5

TARGETS

Received 201

Dangerous 88

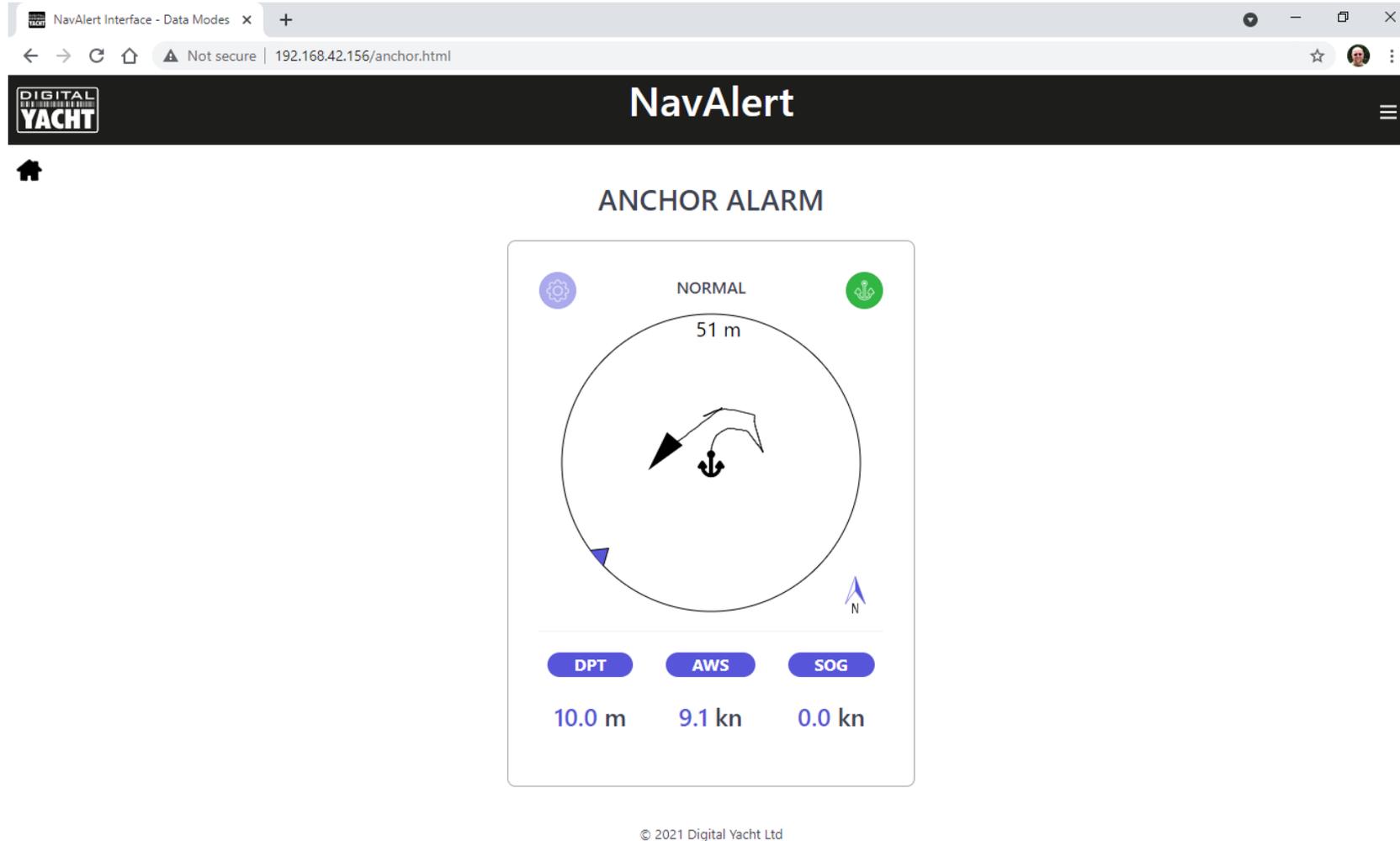
AIS Alarms 0

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Collision remains a major threat at sea so NavAlert uses AIS data for a custom alarm. CPA (closest point of approach), target range and TCPA (time to closest point of approach) variables can be preset.

Alarms are independent of any alarms set on a plotter allowing NavAlert to operate even without a primary multi function display being powered up – an important feature for power limited sail boats

NAVAlert



The screenshot shows a web browser window with the address bar displaying "192.168.42.156/anchor.html". The page title is "NavAlert" and the logo "DIGITAL YACHT" is visible in the top left. The main content area is titled "ANCHOR ALARM" and features a central circular diagram. The diagram shows a boat icon with an anchor, a heading arrow, and a circular alarm radius labeled "51 m". The status "NORMAL" is displayed at the top of the diagram. Below the diagram are three data fields: "DPT" (10.0 m), "AWS" (9.1 kn), and "SOG" (0.0 kn). A copyright notice "© 2021 Digital Yacht Ltd" is at the bottom.

NavAlert Interface - Data Modes x +

Not secure | 192.168.42.156/anchor.html

DIGITAL YACHT

NavAlert

ANCHOR ALARM

NORMAL

51 m

DPT 10.0 m

AWS 9.1 kn

SOG 0.0 kn

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Anchor drift remains a worry for boaters and a customisable anchor drift alarm is built into NavAlert. In addition to a graphical display showing track and anchor drop point, the alert has an algorithm for boat length, depth of water and length of chain to calculate the optimum alarm radius



NavAlert Interface - Settings x +

Not secure | 192.168.42.156/settings.html

DIGITAL YACHT

NavAlert

Network Settings

Access Point Station

SSID: NavAlert-C404

PASSWORD:

CHANNEL: 11

IP: 192.168.1.1

SUBNET: 255.255.255.0

PORT: 2000

Default

Update Settings

Firmware update

Only use NavAlert_OTA_x_x.bin file provided by Digital Yacht

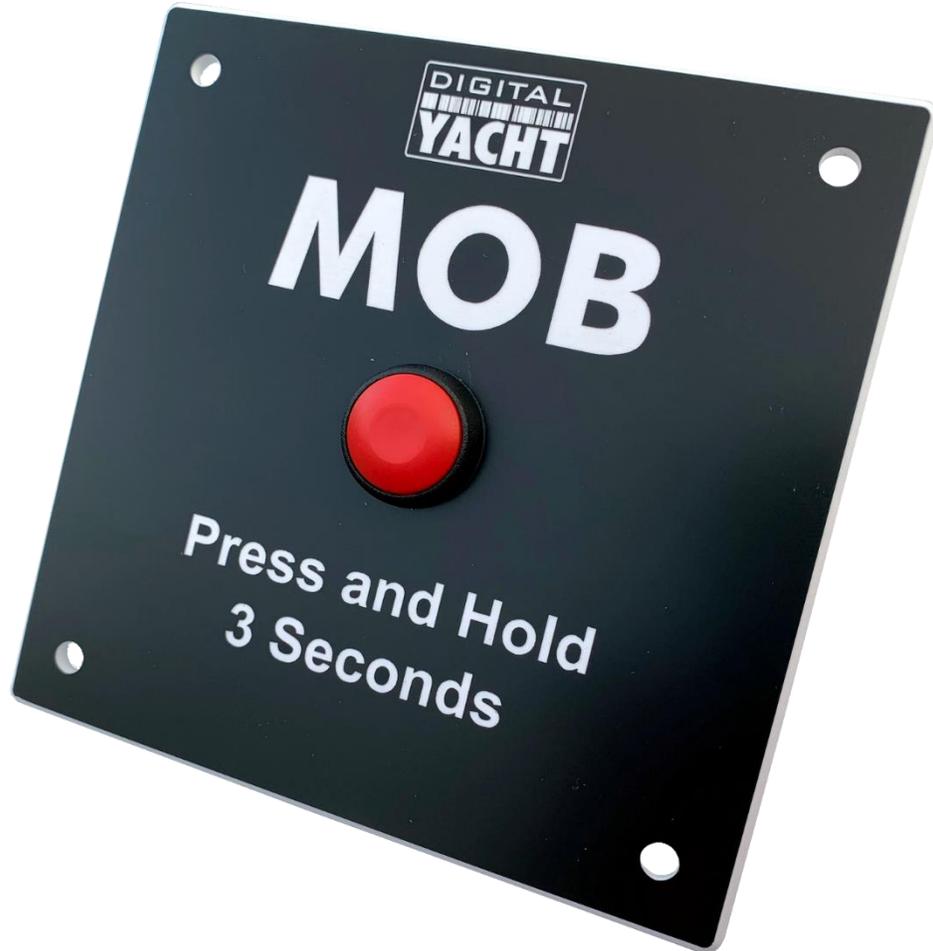
Choose file No file chosen

NavAlert can create its own wifi access point or join an existing boat wifi network.

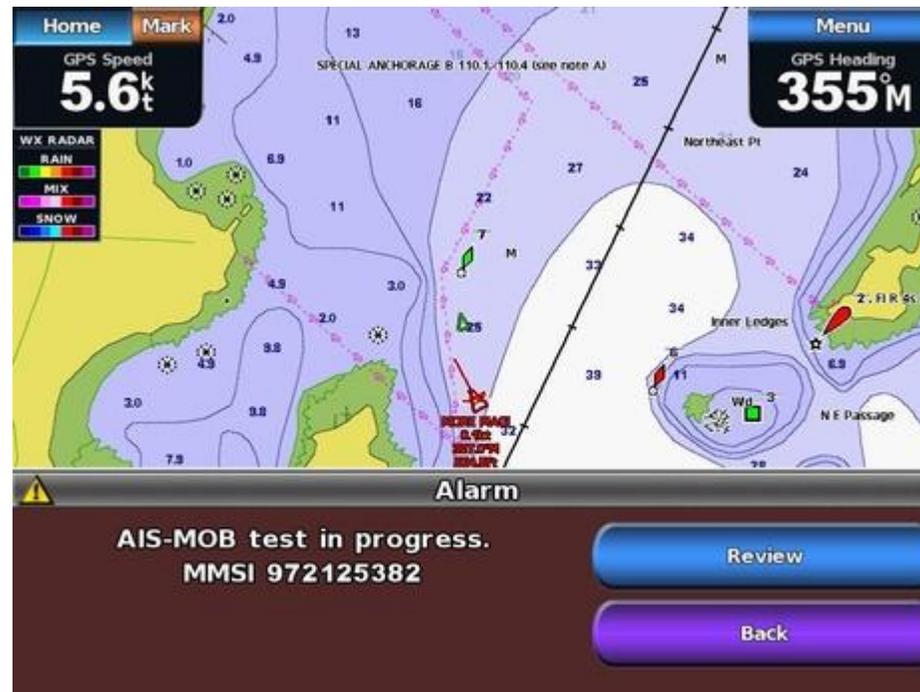
Alarms can be customised to – for instance, tone, intermittent, continuous etc

Updating the unit is easy too via an “over the air” update from any connected device.

NAVAlert



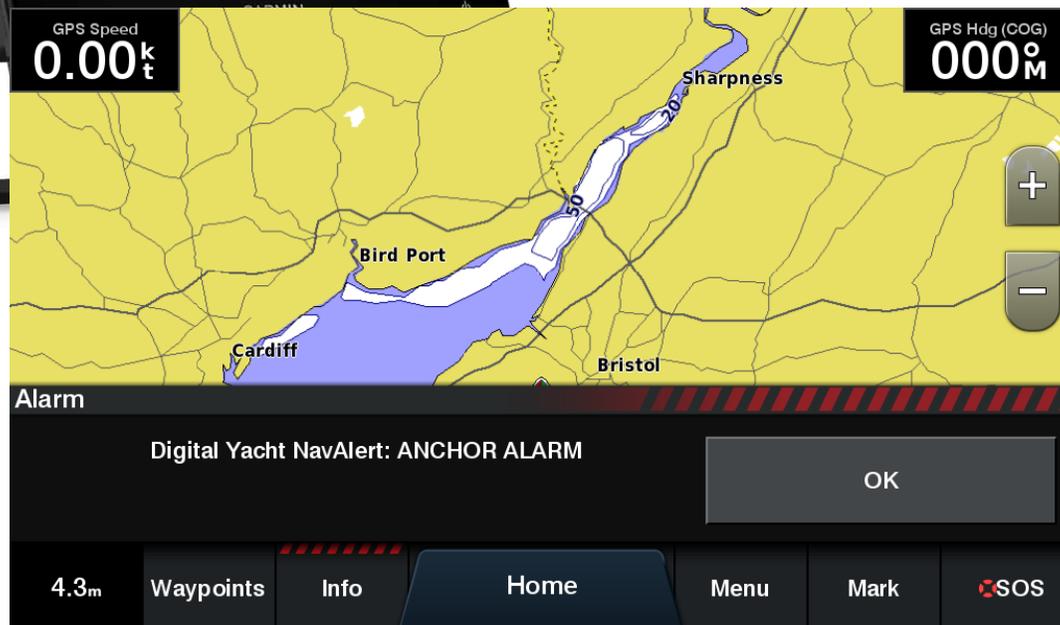
NavAlert can connect to a simple switch for a man over board (MOB) alarm. It synthesises the AIS SART MOB beacon message on activation and sends data onto the NMEA 2000 network to activate alarms on multi function displays



NAVAlert



Alerts can also be relayed to compatible multi function devices (Garmin supports this function) for a pop up data window indicating an alert and the ability to acknowledge



GPS Speed **0.00kt** GPS Hdg (COG) **000°M**

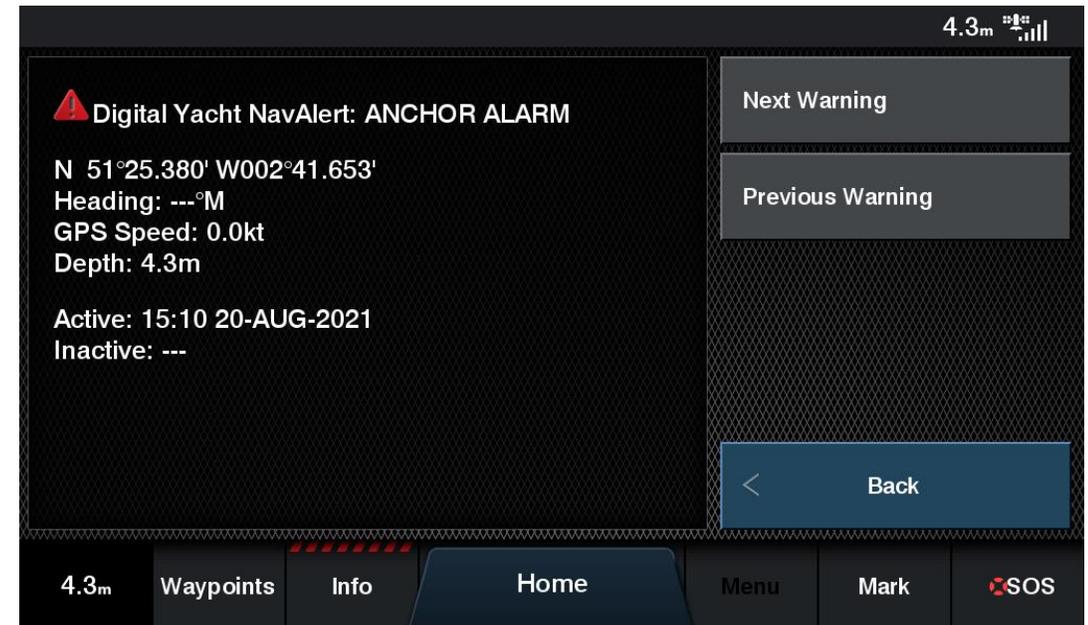
Map labels: Sharpness, Bird Port, Cardiff, Bristol

Alarm

Digital Yacht NavAlert: ANCHOR ALARM

OK

4.3m Waypoints Info Home Menu Mark SOS



4.3m 

⚠ Digital Yacht NavAlert: ANCHOR ALARM

N 51°25.380' W002°41.653'
Heading: ---°M
GPS Speed: 0.0kt
Depth: 4.3m

Active: 15:10 20-AUG-2021
Inactive: ---

Next Warning

Previous Warning

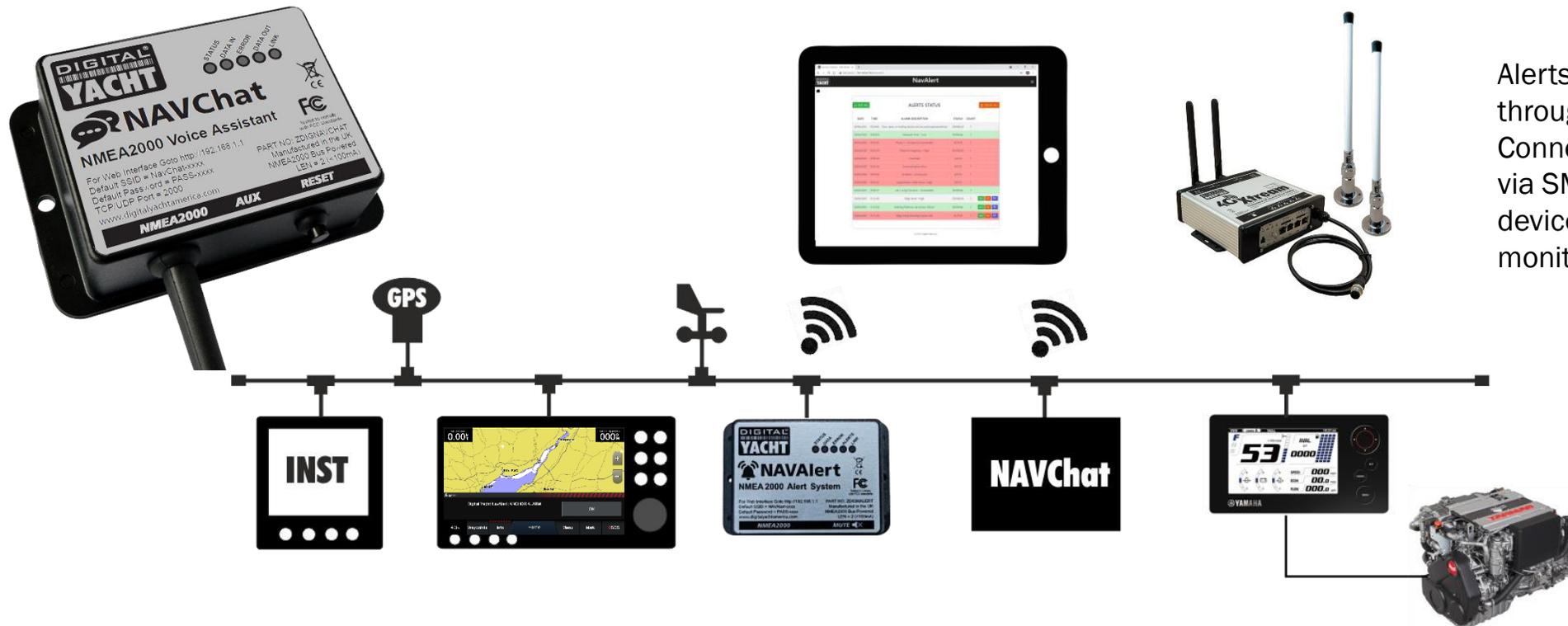
Back

4.3m Waypoints Info Home Menu Mark SOS

NAVChat

Available Q1 2022, NavChat connects to the NMEA 2000 bus and provides spoken alerts as generated by NavAlert in plain English – for instance, “Caution Depth Alarm”

It can also provide spoken updates of nav information on a regular, repeating basis such as cross track error, depth, distance and bearing to waypoint which brings a sixth sense of audio to navigation and can also help visually impaired sailors



Alerts can be sent through Digital Yacht's 4G Connect and 4G Xstream via SMS to remote devices – ideal for remote monitoring