



# NAVALert



**NMEA 2000 Alert System**

**New Product Introduction**



**Part Number: ZDIGNALERT**

**NMEA 2000 INTEGRATED ALERT SYSTEM (SRP £200/€260/US\$300)**

[www.digitalyacht.co.uk](http://www.digitalyacht.co.uk)

Availability: Q3/2022

# NAVAlert

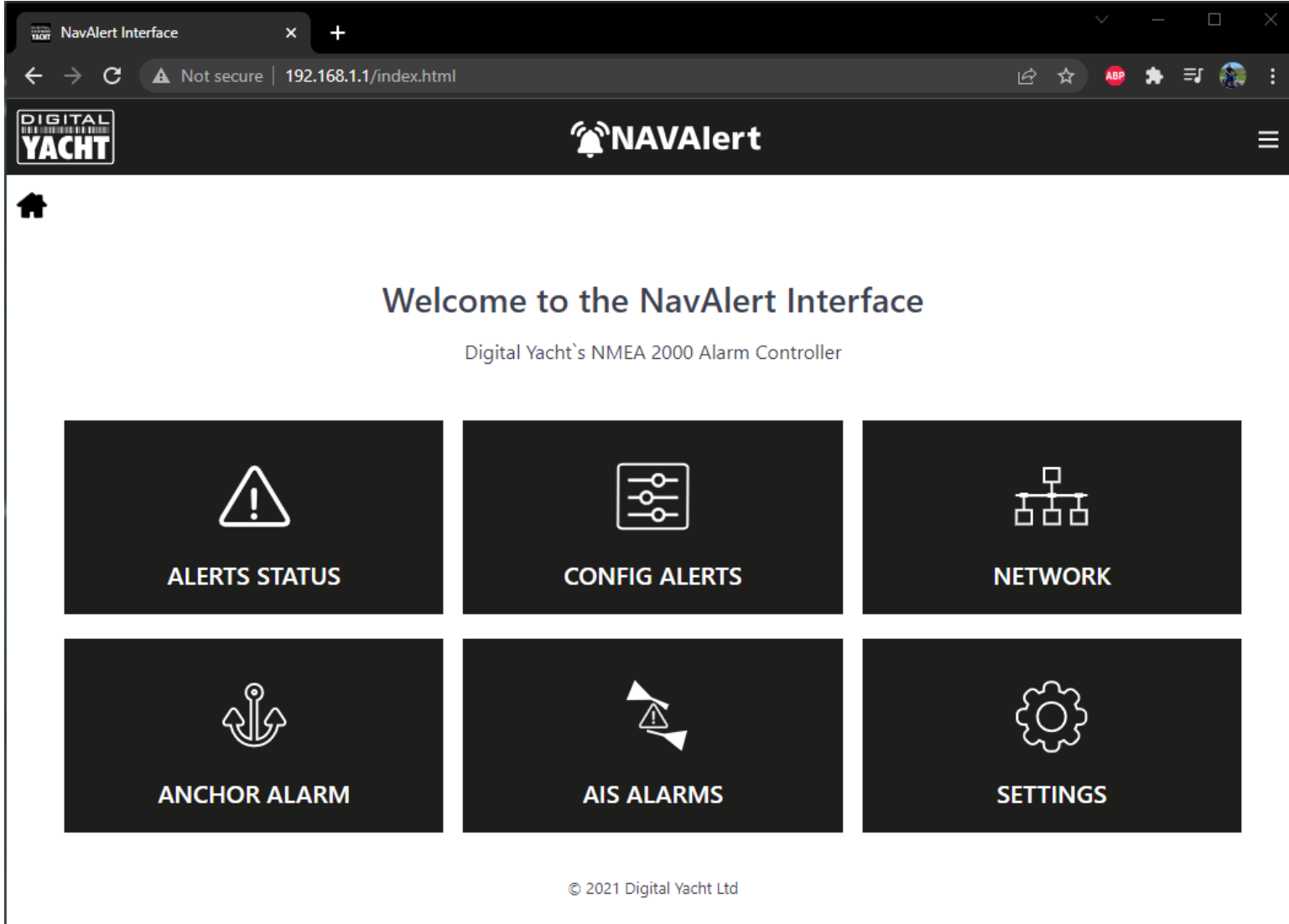


Today's boating systems are becoming more sophisticated and integrated, often using the NMEA 2000 data standard to interconnect. For the boater, keeping an eye on boat operating parameters is increasingly complex. NavAlert simplifies this making boating safer with a central, easily configurable device to monitor systems and provide custom audio alerts.

NavAlert connects to the NMEA 2000 network and allows the user to set an alarm for any variable on the network – for instance, shallow depth, low fuel level, off course, high temp etc. It also has sophisticated anchor and anti collision alarms built in.

It utilises a wifi interface so the user can access and set up the device using any phone or tablet with a browser and it can relay the alert to a multi function display (currently supported by Garmin) to deliver a pop up alarm window. It can also relay the alarm direct to your mobile phone via SMS, if connected to one of Digital Yacht's 4G router products.


# NAVAlert



NavAlert Interface

Not secure | 192.168.1.1/index.html

DIGITAL YACHT

 NAVAlert

Welcome to the NavAlert Interface

Digital Yacht's NMEA 2000 Alarm Controller

ALERTS STATUS

CONFIG ALERTS

NETWORK

ANCHOR ALARM

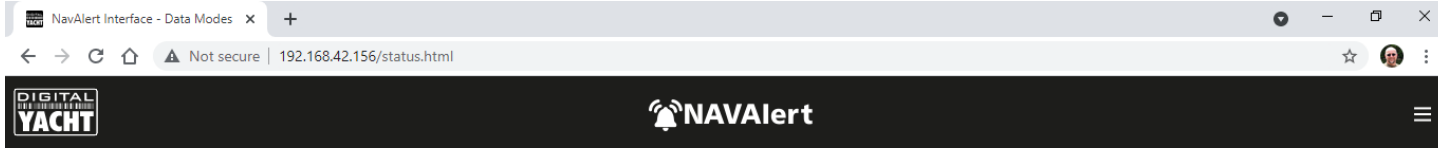
AIS ALARMS

SETTINGS

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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					DELETE ALL	
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	ACK	ESC
30/06/2021	11:12:58	Bathing Platform Up Sensor Failure	NORMAL	1	ACK	ESC
30/06/2021	11:13:16	Bilge Pump Running Sensor Fail	ACTIVE	1	ACK	ESC

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 be acknowledged/silenced via the mute button fitted to the unit or via a compatible NMEA 2000 multi function display

# NAVAAlert



CONFIG ALERTS ADD NEW ALERT

PGN	SOURCE	NAME	FIELD	VALUE	LIMIT	UNIT	TYPE
127251	<input type="text" value="128"/> <input type="text" value="128"/> <input type="text" value="2"/>	RateofTurn	Rate_of_Turn	76354 <input type="text" value="&gt;"/> <input type="text" value="&lt;"/> <input type="text" value="="/> <input type="text" value="0"/>	0	rad/s	<input type="checkbox"/> <input type="checkbox"/>

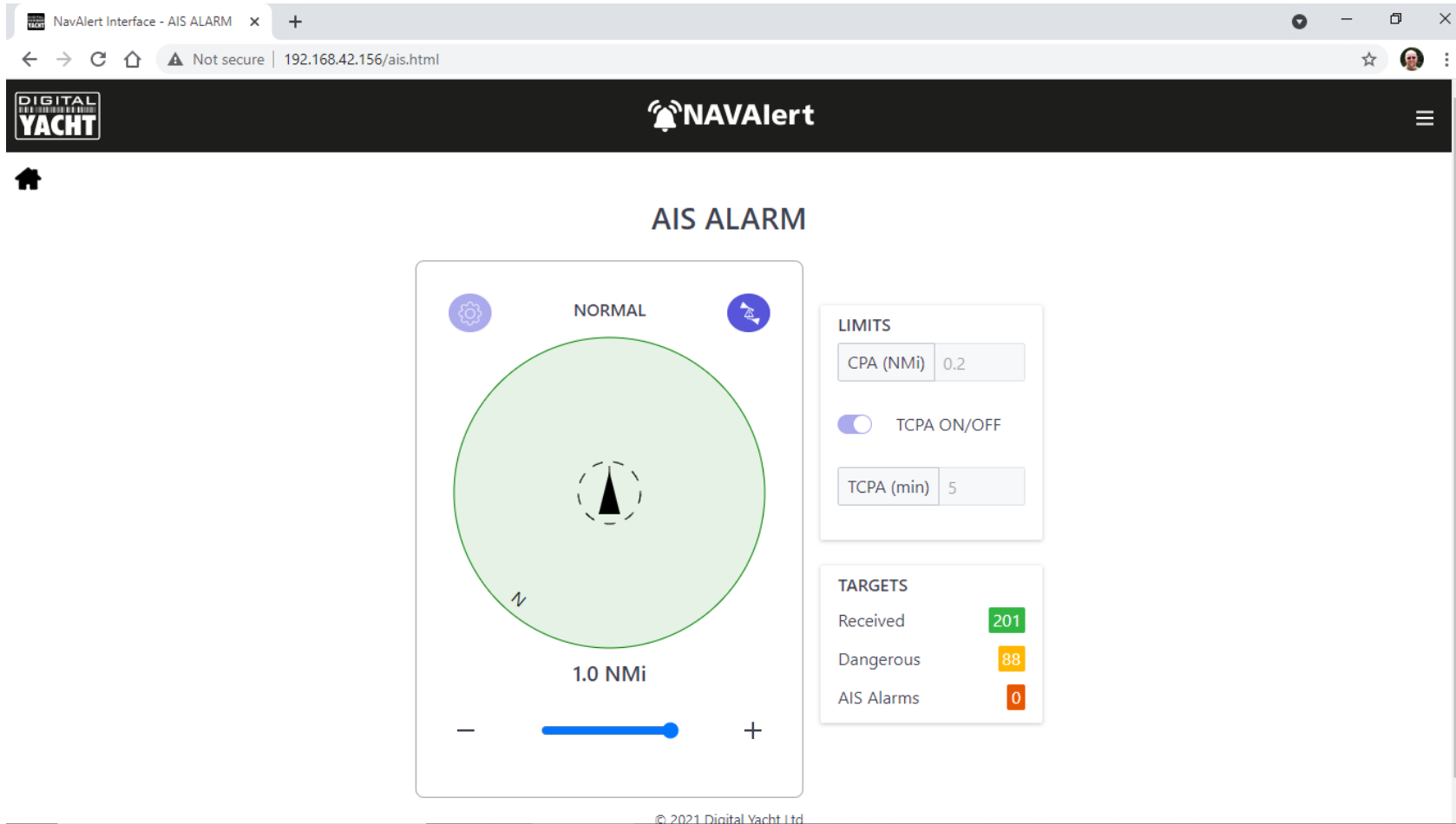
Save Mute Clear

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

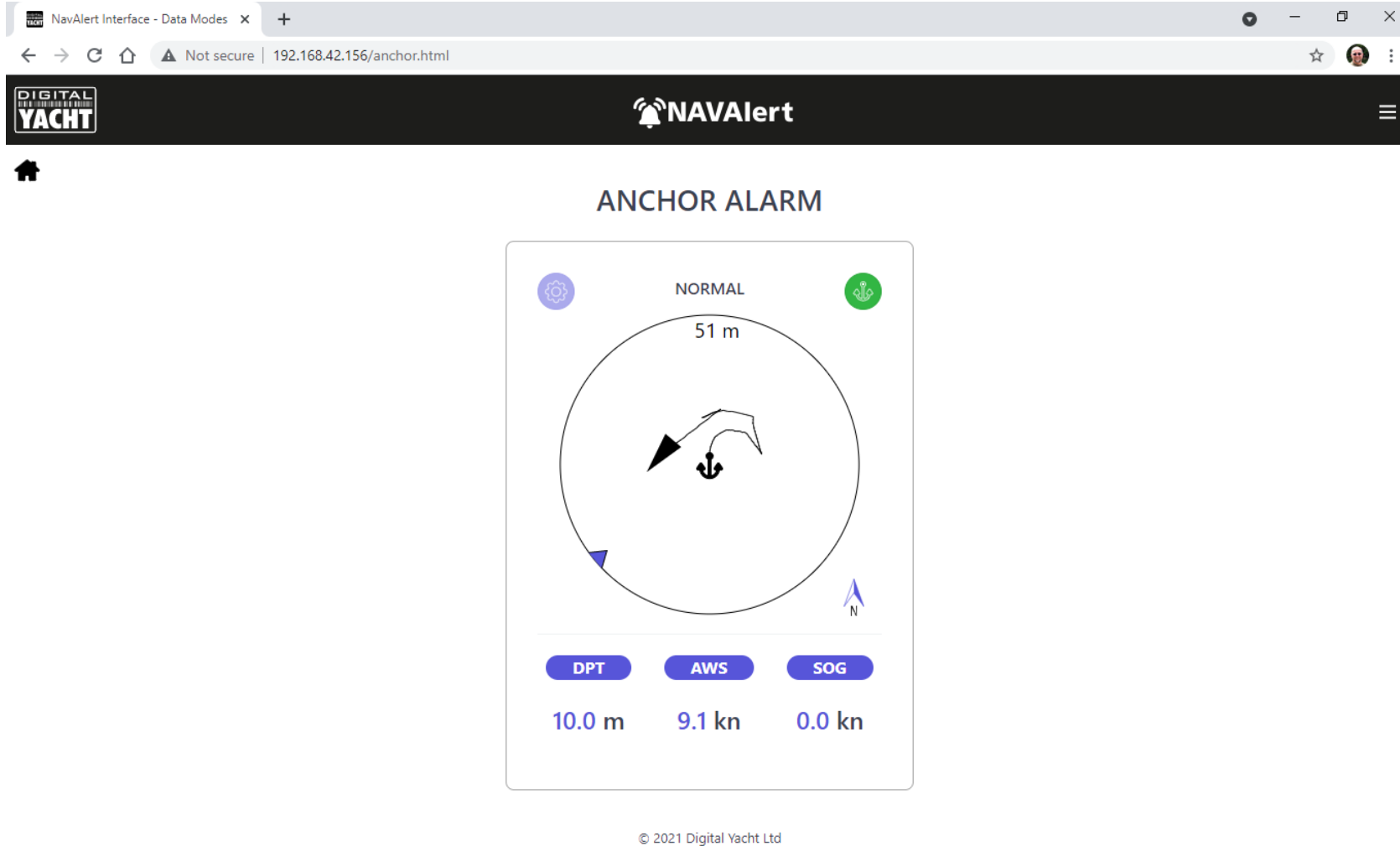


The screenshot shows the NAVAlert web interface in a browser window. The browser address bar displays "Not secure | 192.168.42.156/ais.html". The interface features a black header with the "DIGITAL YACHT" logo and the "NAVAlert" title. Below the header is a home button and the "AIS ALARM" title. The main content area contains a radar display and control panels. The radar display is a circular plot with a green background and a black compass rose, labeled "NORMAL" and "1.0 NMi". To the right of the radar are three control panels: "LIMITS" with a "CPA (NMi)" input set to 0.2 and a "TCPA ON/OFF" toggle; "TARGETS" showing "Received" (201), "Dangerous" (88), and "AIS Alarms" (0); and a "TCPA (min)" input set to 5. A blue slider is located below the radar display. The footer of the interface reads "© 2021 Digital Yacht Ltd".

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.

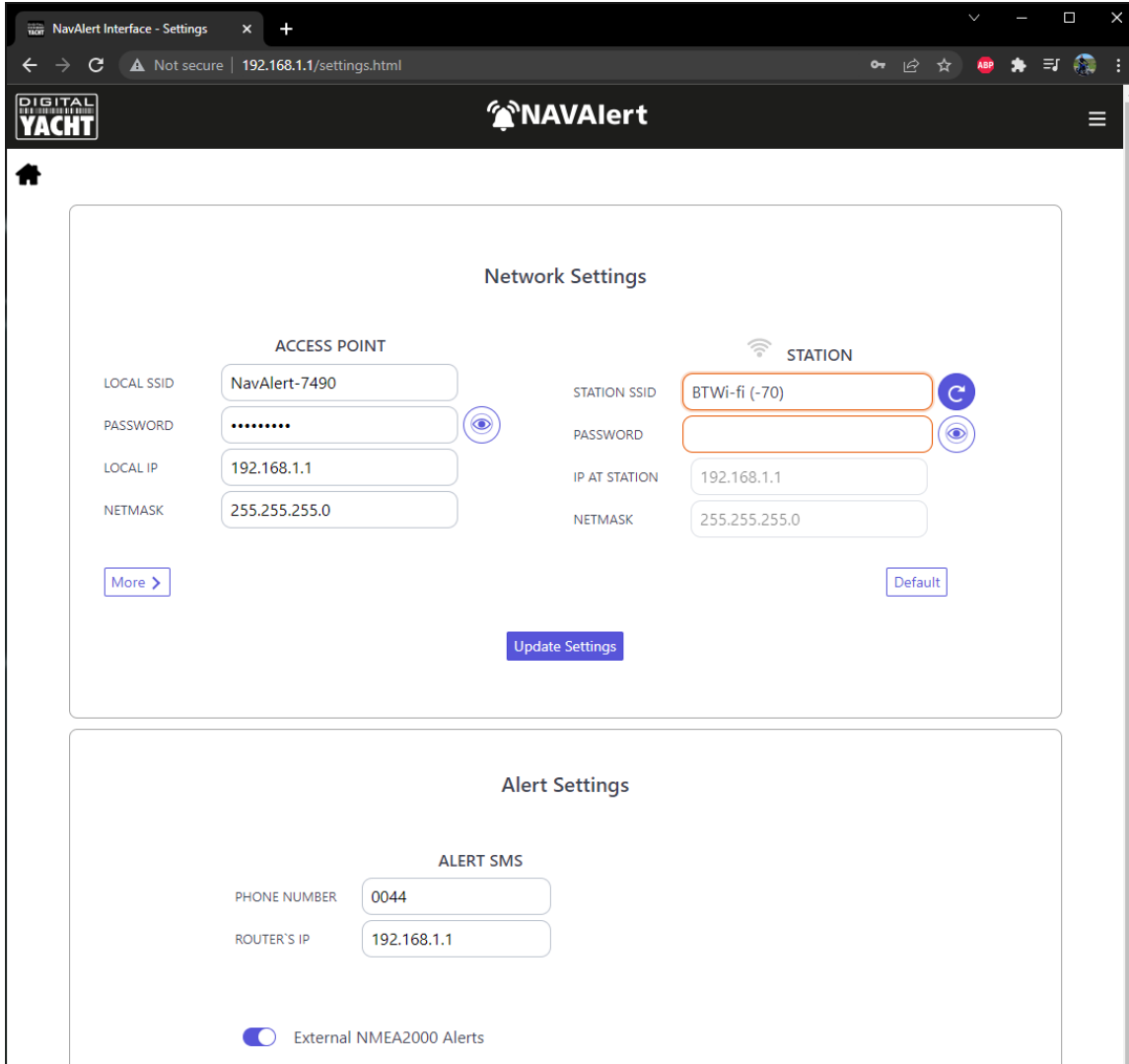
Alarms are independent of any alarms set on a plotter allowing NavAlert to operate even without a primary multi function display being powered up – an important feature for power limited sail boats

# NAVAlert



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



The screenshot shows the NavAlert web interface in a browser window. The address bar shows the URL 192.168.1.1/settings.html. The page title is "NavAlert Interface - Settings". The interface is divided into two main sections: "Network Settings" and "Alert Settings".

**Network Settings**

ACCESS POINT		STATION	
LOCAL SSID	NavAlert-7490	STATION SSID	BTWi-fi (-70)
PASSWORD	.....	PASSWORD	
LOCAL IP	192.168.1.1	IP AT STATION	192.168.1.1
NETMASK	255.255.255.0	NETMASK	255.255.255.0

Buttons: "More >", "Default", "Update Settings"

**Alert Settings**

ALERT SMS	
PHONE NUMBER	0044
ROUTER'S IP	192.168.1.1

External NMEA2000 Alerts:

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

NavAlert will also, if connected to one of our 4G products, send an SMS message to your mobile phone when an Alert is triggered

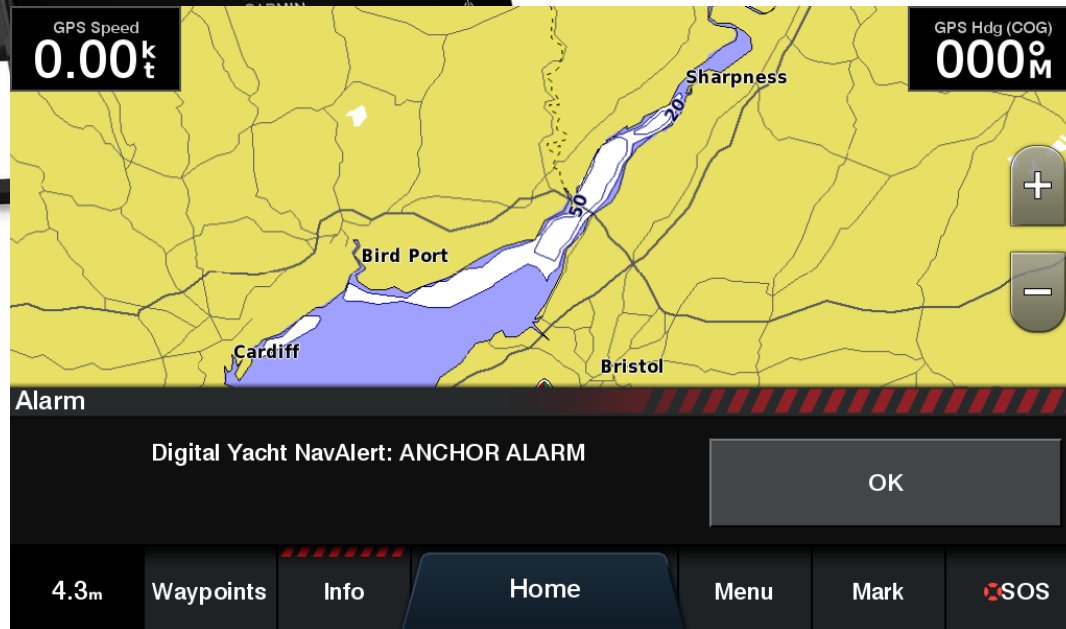
Updating the unit is easy too via “Over The Air” (OTA) updates from any network device connected to NavAlert



# 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**

Sharpness

Bird Port

Cardiff

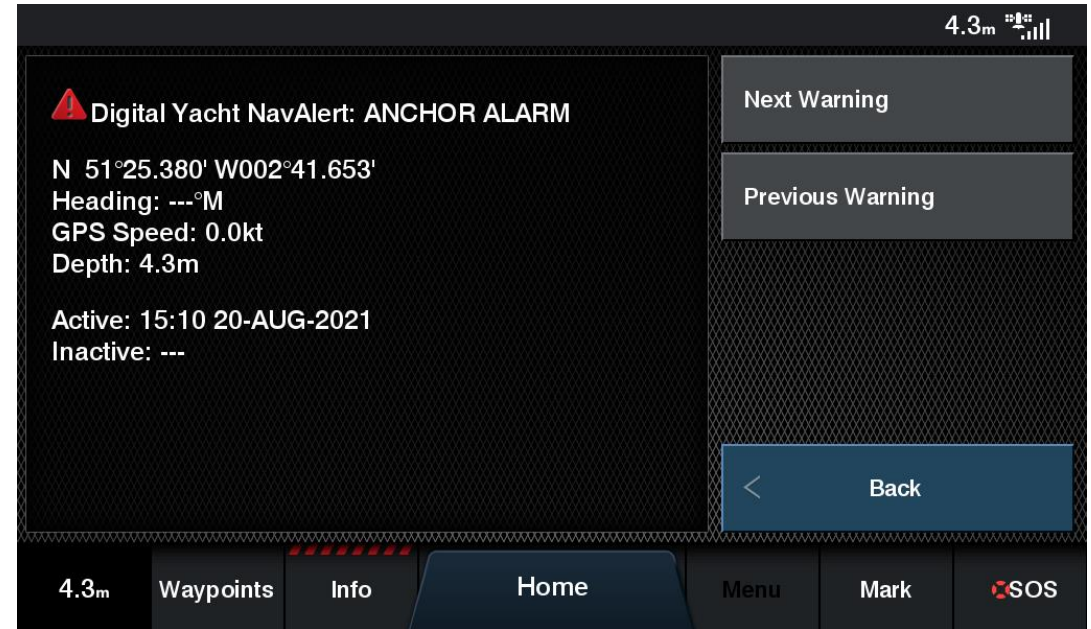
Bristol


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