
SEA.AI
User Guide
SEA.AI Offshore | SEA.AI Competition
Edition 2023 | Software V.7

Say hello to your new SEA.AI System

Register your product:

SEA.AI Competition | **SEA.AI Offshore**



DISCLAIMER:

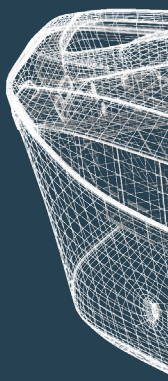
The SEA.AI System is intended to provide additional assistance to the User and does not exempt the User from strict compliance with the usual rules and practices of navigation safety and international maritime regulations. Users must be vigilant at all times and ensure that they have the required knowledge in terms of navigation. They must not rely on the use of the SEA.AI System to make navigation choices.

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INTRO

Thank you for purchasing SEA.AI product!
SEA.AI systems utilise an advanced artificial intelligence engine and high quality thermal and optical cameras to provide early detection and identification of floating objects on the water – during the day and at night. This includes objects that might escape conventional systems such as Radar or AIS, including: unidentified vessels, floating obstacles, containers, buoys, inflatables, kayaks and persons. Using information from the SEA.AI vision unit, SEA.AI processor which allows it to automatically build a digital representation of any potential threats within the vicinity of the vessel and alert the user of their presence.



SEA.AI system's artificial intelligence is based on the latest Machine Vision technology, best-in-class deep learning capabilities, and a constantly evolving, proprietary database of millions of annotated marine objects. Our software is regularly upgraded to improve functionality and reliability. It is recommended that users keep the application up to date to receive the latest updates in order to secure the best performance of the system.

CHECKLIST

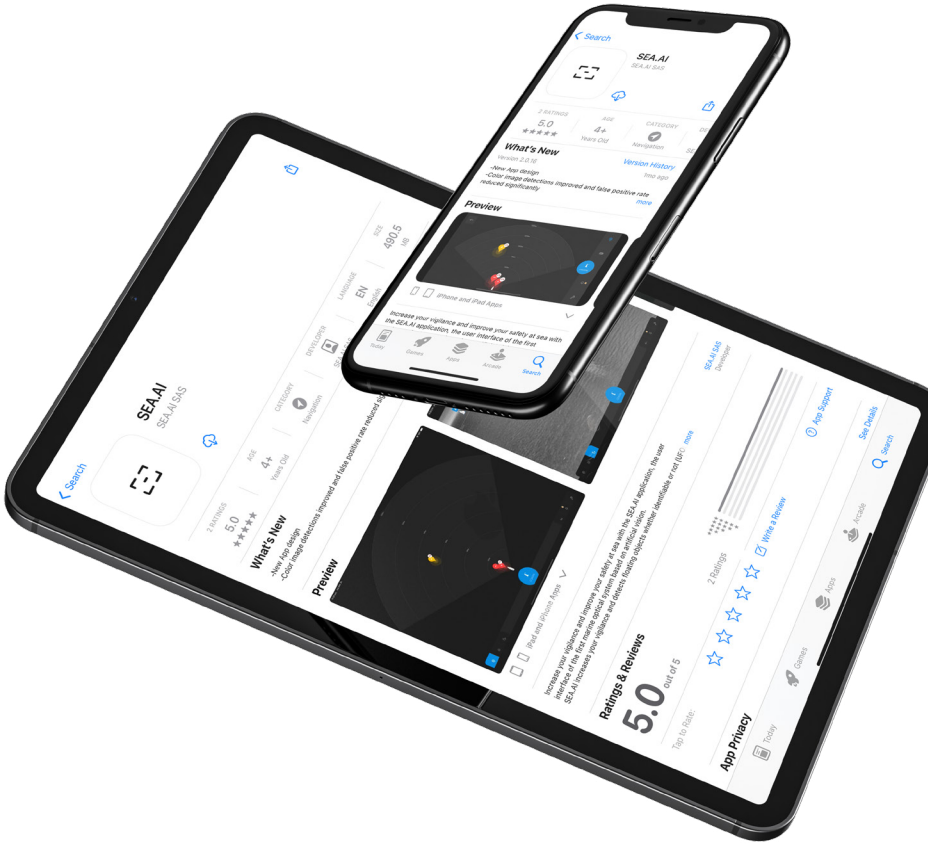


Before you begin, please ensure you have completed the following steps:

- You have registered your product and received your unique serial password to ensure regular updates.
- The installer completed the installation, and you have the SEA.AI app working on your chart plotter (MFD) or on-board computer.
- The SEA.AI app is running on your smartphone or tablet and connected to the SEA.AI system on the boat via WIFI.

CONNECTING DEVICES

The SEA.AI app is supported on a range of mobile devices, including smartphones and tablets.



CONNECTING DEVICES

To install the SEA.AI app on your smartphone or tablet you will need to:

1. Download the latest version of the SEA.AI Navigation App from your device's Apple App Store or Google Play Store.

2. Connect to the SEA.AI app using your MFD WIFI (Raymarine only) or your boat WIFI via router to access the SEA.AI system.

   To connect via your MFD WIFI select the 'Help' option on the app welcome page and then on the second pop-up select "Connect to the mobile using MFD WIFI".

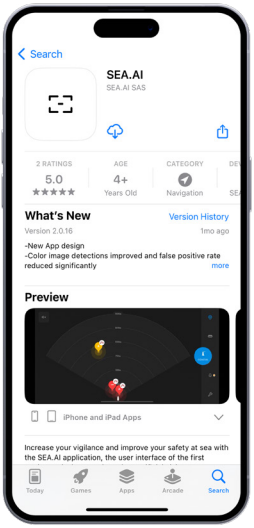
3. Start the SEA.AI app on your device.

Demonstration video here:
https://youtu.be/tw4pnspv9lA

WhatsApp

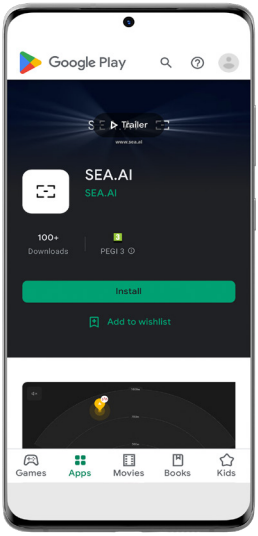
If you have any problems with this procedure, please contact your local dealer/ installer, or contact SEA.AI directly via WhatsApp or email at: service@sea.ai

CONNECTING DEVICES



IOS SEA.AI
App Download

Android SEA.AI
App Download

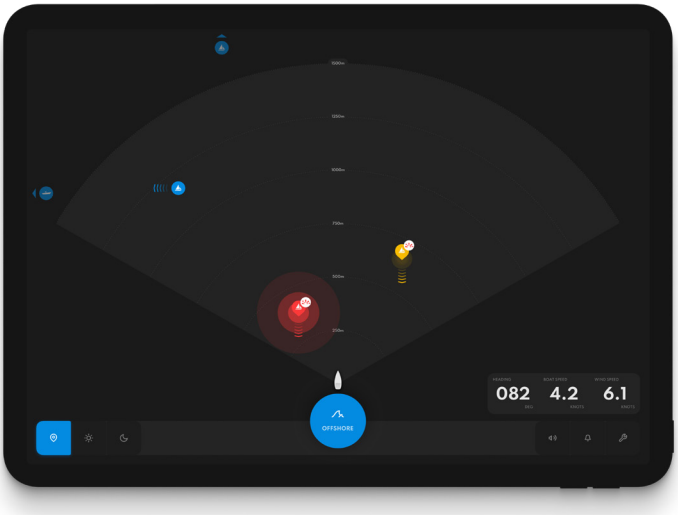


INTERFACE OVERVIEW

SEA.AI systems include three main views:
Map view | Colour Camera view | Thermal Camera view

Map view

The map view displays all objects detected by the system and their calculated threat level. The detection range is highlighted in grey. If the system detects a potentially dangerous object, an accoustic alarm is triggered.



INTERFACE OVERVIEW

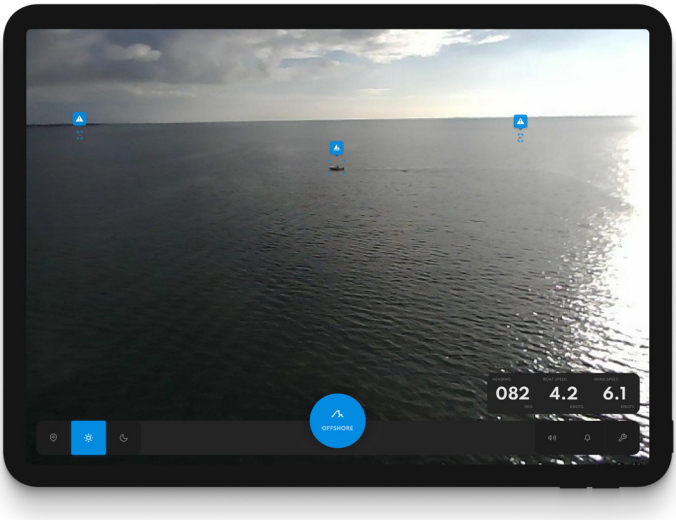
Displayed icons in Colour & Thermal Camera:



Ship | Sailing Boat | Hazard | Buoy

Colour camera view

The colour view shows the live images from the colour camera with a field of view of 110°, working during daytime and low-light conditions. Detected objects are displayed with a box around them.



Note: Colour detections are not available on SEA.AI Offshore ONE.

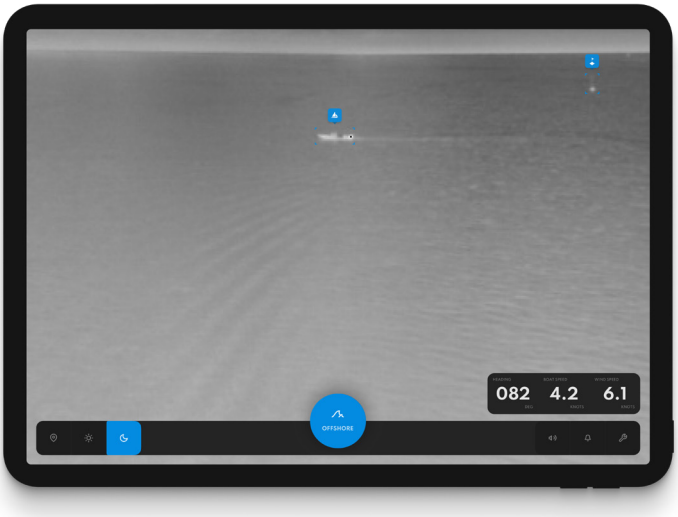
INTERFACE OVERVIEW

Displayed bounding box in Colour & Thermal Camera:



Thermal camera view

The thermal view shows live images from the thermal camera with a field of view of 50°, working during the day and at night. This view is adequate for night sailing or in low visibility conditions.



NAVIGATION MODES

SEA.AI systems have three navigation modes each customised for separate operating environments.

Please note that the alarms operate differently in each individual mode.



Harbour mode

Suitable for use when entering and leaving harbours and marinas, the camera can be used to help navigate the vessel by day and by night. **No detections will be shown and all alarms are off. Please be aware of your surroundings. Switch to Coastal Mode as soon as leaving the harbour.**

NAVIGATION MODES

Coastal mode

Suitable for coastal passages or navigation through areas of high traffic. **Single alarms are triggered only for dangerous targets. No alarms are triggered for safe passing objects.** Please be aware of your surroundings.





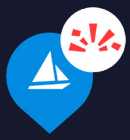
Offshore mode

Suitable for use on offshore passages. Acoustic alarms for all detected targets are repeated at regular intervals. Objects on collision course are given an escalating alarm level until the situation becomes safe. Please be aware of your surroundings.

ALARMS

SEA.AI systems have three separate threat levels designed to give users the optimum risk awareness in all three navigation modes.

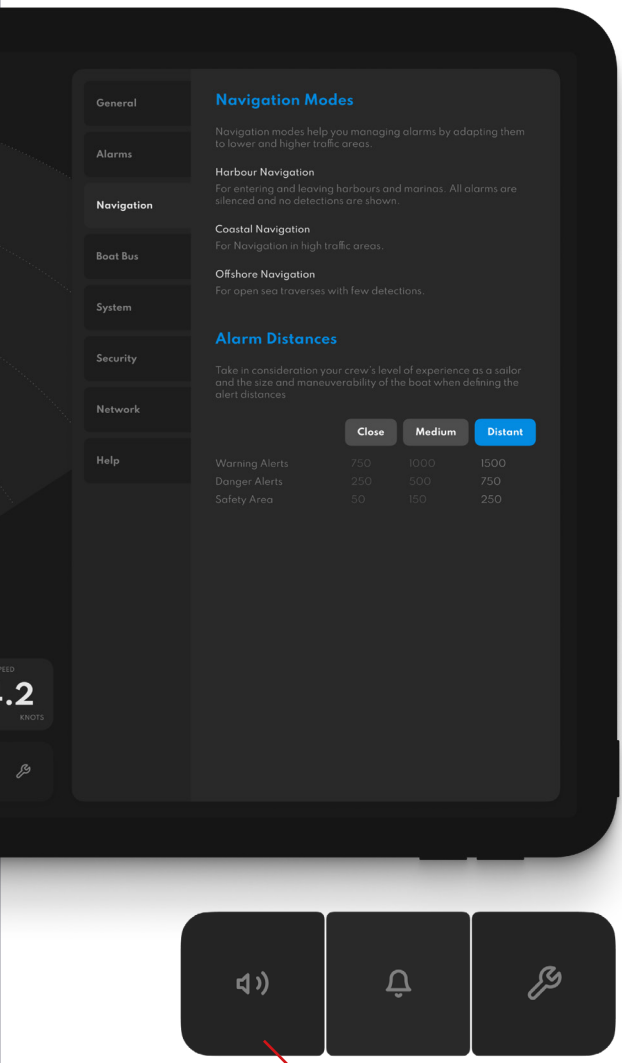
Each of the three threat levels include colour coded visual indications of detected objects. Anything assessed as a collision risk, is also visually tagged with an impact icon.



Additionally, detected objects trigger a range of audible warnings (single note) and alarms (multiple note), that increase in intensity across the three threat levels.



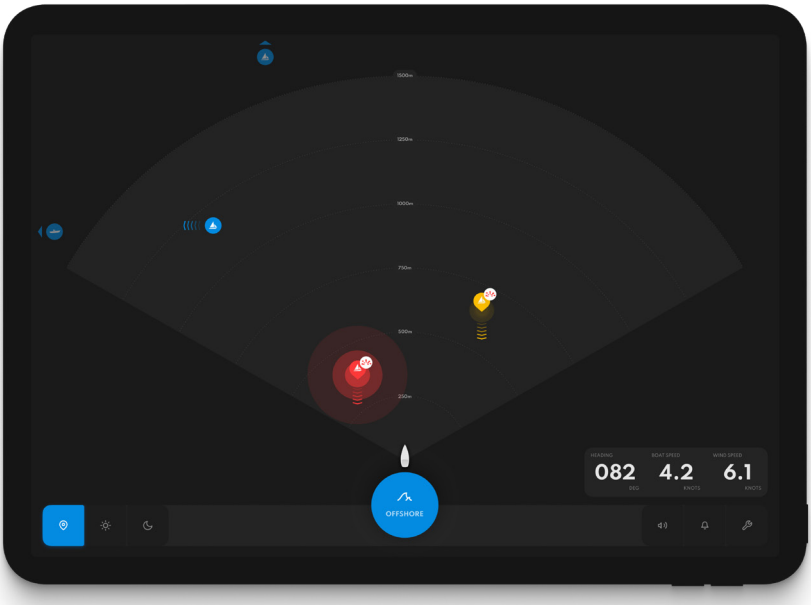
ALARMS



Mute / Unmute

Audible warnings can easily be muted using the sound icon.
You can also customize inside the navigation settings the distance parameters for each threat level to suit your individual needs.

ALARMS

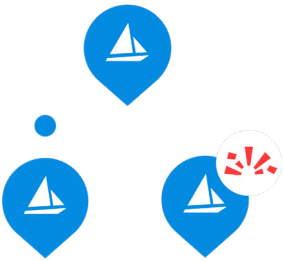


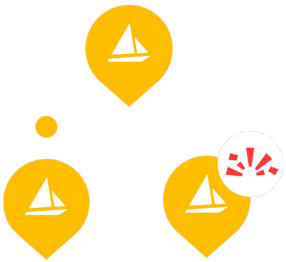
SEA.AI is an assistance system designed to enhance safety at sea. It does not replace the requirement for a proper lookout to be kept by the person in charge of the vessel.

VISUAL DETECTION INDICATORS

Blue

Distant or safe objects detected:
The warning will only be visual and no accoustic alarms will be triggered.



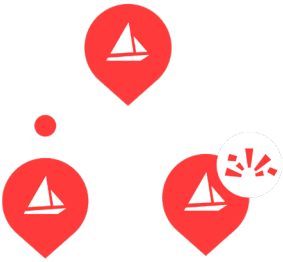


Yellow

Closer, potentially dangerous objects detected: In addition to the visual warnings a single note audible warning is sounded.

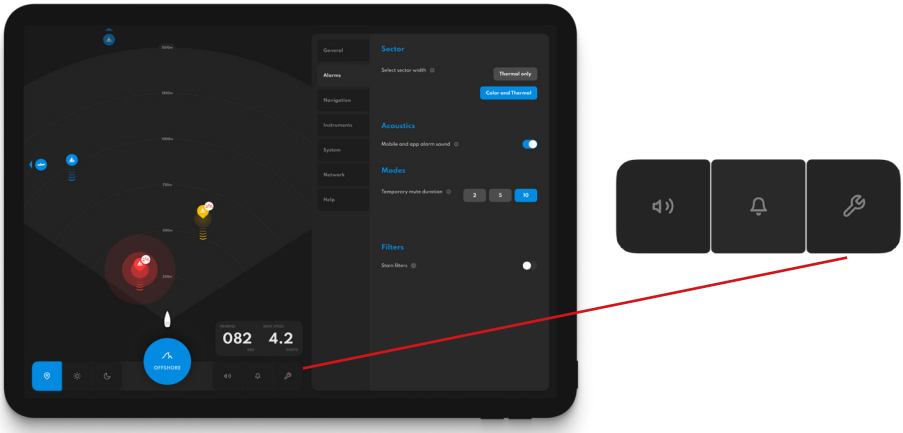
Red

Dangerous objects representing an immediate threat detected: In addition to the visual warning repeated multiple note audible alarms are sounded. Objects within a predefined safety zone trigger a constant audible alarm.

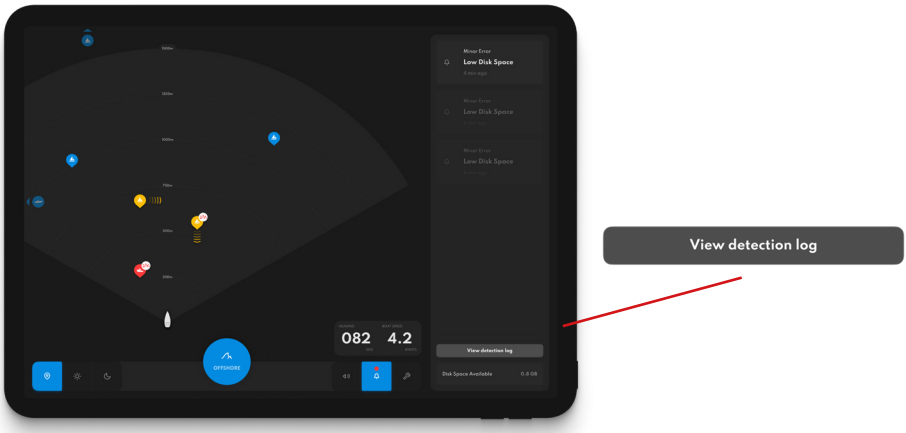


VISUAL DETECTION INDICATORS

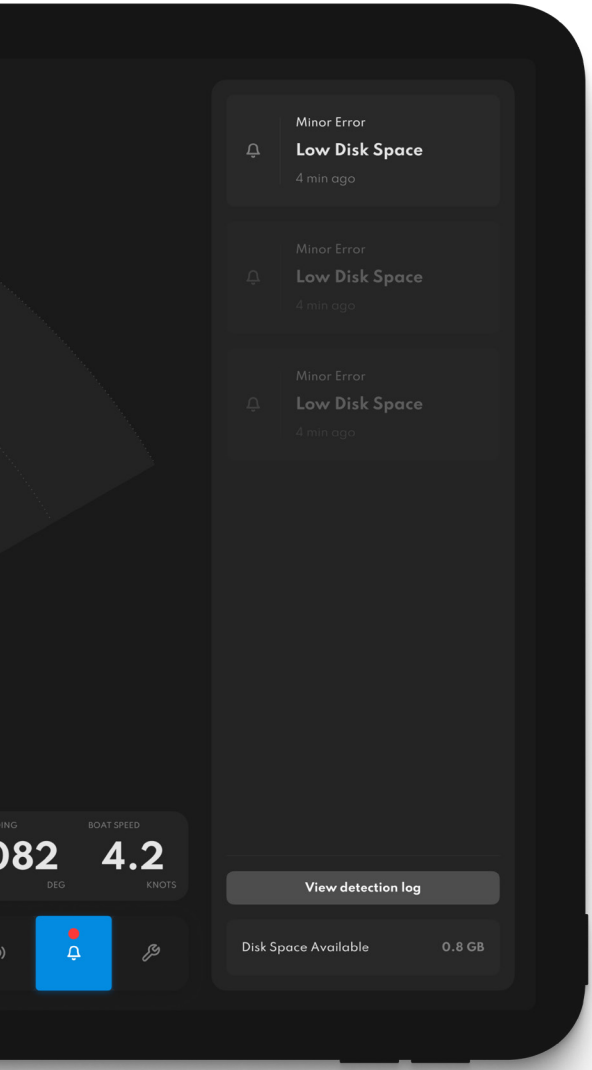
The alarm settings can be changed in the settings preferences section.



A list of all detections to date can be shown by clicking on the bell icon and then clicking on "View detection log".



NOTIFICATIONS PANEL

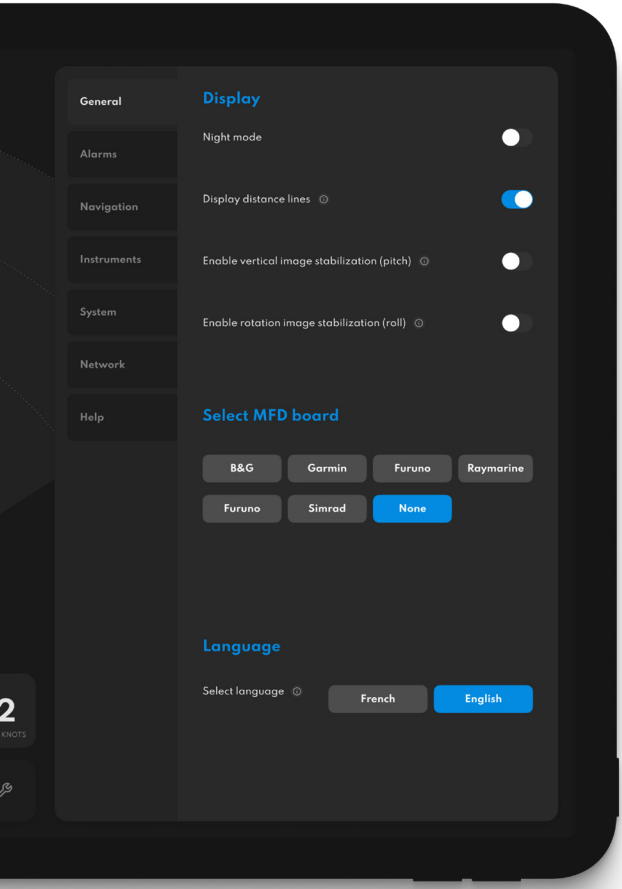


SEA.AI system will notify you of any system malfunctions and/or performance degradations. These are displayed in the notifications panel on the right side.

New notifications will be indicated by a flashing red dot on top of the bell icon.

To open the notifications panel, click on the bell icon.

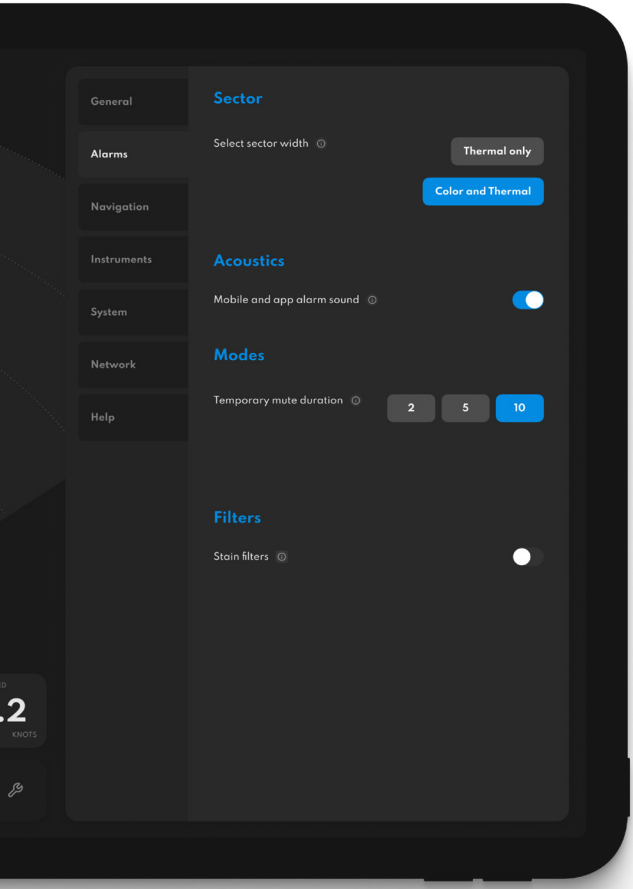
SETTINGS



Display Settings

The display settings will allow you to activate the night mode, showing distance lines and enabling additional image stabilisation.

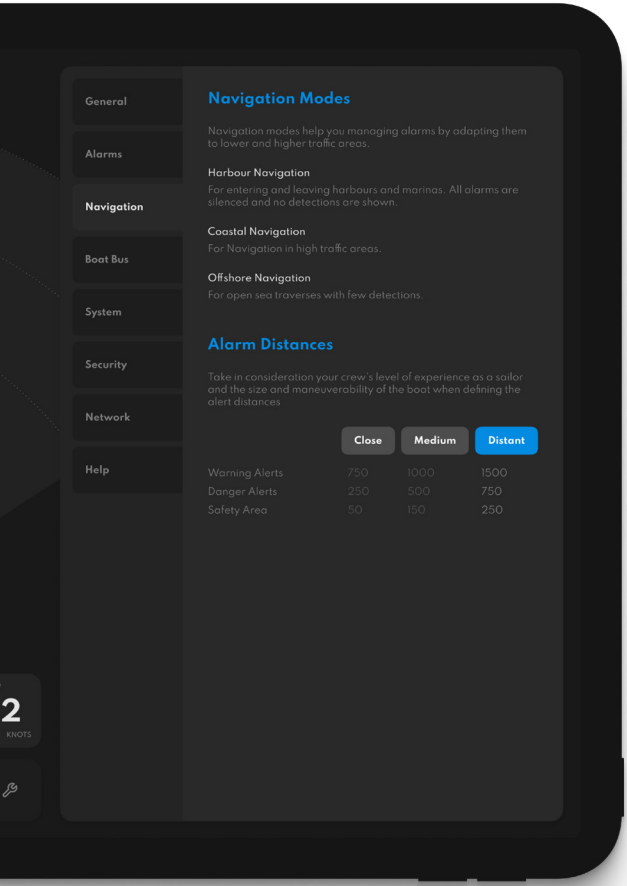
SETTINGS



Alarm Settings

In the alarm settings section you can easily turn on/off the acoustics for the mobile and app sound, choose the alarm sector based on your personal preferences, and also choose the temporary mute duration.

SETTINGS

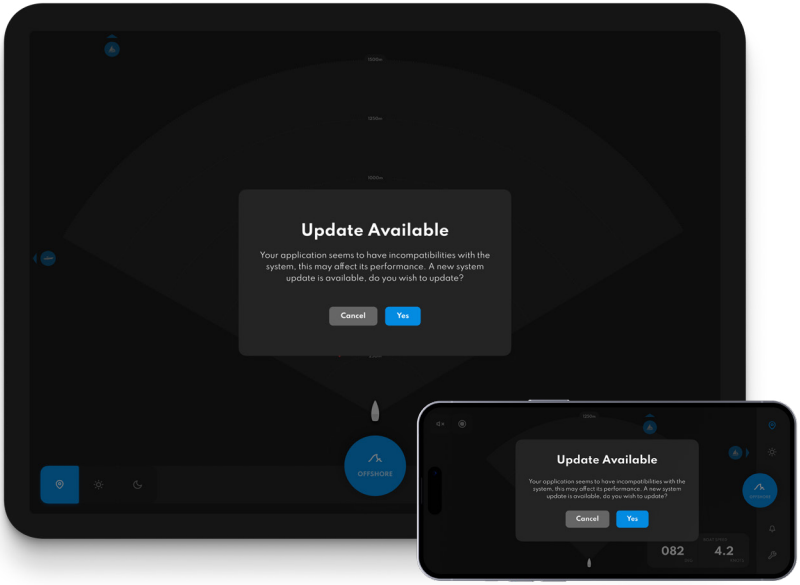


Navigation

The navigation modes help you manage detection alarms between higher to lower traffic areas. Here you can adjust the distance for the detections to sound alarms, between close to medium to distant.

SOFTWARE UPDATES

SEA.AI system is constantly evolving.
With regular issued software updates you can take advantage of the ever growing database and enhanced artificial intelligence.



SOFTWARE UPDATES

Keep your system always updated.

1. Update your SEA.AI application on your smartphone (Apple App Store or Google Play Store).
2. Connect to the SEA.AI app using your MFD WIFI (Raymarine only) or your boat WIFI via router to access the SEA.AI system.
3. Start the SEA.AI Navigation app on your mobile device.
4. If a new update is available, a message asking if you would like to update will pop up automatically on your device's screen.
5. Click '"Yes"' to update the system to download the update and automatically upgrade to the latest SEA.AI software version.





SOFTWARE UPDATES

Please note that:

- Do not power off the system during the update process. This can cause serious harm to your SEA.AI system.

- The update process can involve multiple system restarts and will take several minutes, during which, connection to the mobile device may be lost.

- Please be sure you update all mobile devices, including smartphones and tablets, to the most recent version.

If you have any problems with this procedure, please contact your local dealer/ installer, or contact SEA.AI directly via WhatsApp or email at: service@sea.ai

SERVICE & SUPPORT



OVER THE AIR UPDATES & PERFORMANCE IMPROVEMENTS

SEA.AI' artificial intelligence engine is based around an ever-expanding database which we update at regular intervals making SEA.AI even more efficient. If you need any help with updating, please check the update section on this guide, or contact us for further help.



REMOTE SOFTWARE & SERVICE SUPPORT

SEA.AI can provide remote support to ensure the reliable performance of your SEA.AI system wherever in the world our users' vessels are operating. Contact us for online-remote support.

SERVICE & SUPPORT

FEEDBACK

If you have any thoughts or comments about our products or customer service we welcome your feedback via: feedback@sea.ai

CONTACT US

To contact us please message us directly via WhatsApp or send us an email service@sea.ai and we will be happy to assist you. You can also find these contacts in the help section of your settings in the app.

WhatsApp

Need help?

SEA.AI

www.sea.ai