These Operating Instructions summarize the most important topics from the product manual (p/n 1001001-2) found on the Nauticast Data Card (USB-Stick). They are designed to give immediate access to essential information when operating the system on a daily basis.

Please visit our web-site for the latest information regarding the Nauticast A2 and other products. Our web-site also contains contact information of our world-wide service network.

Nauticast GmbH
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SYSTEM MODES

Important: The Nauticast A2 can operate in two different system modes, **Class A mode** (default) and **Inland mode. Instructions only applicable to Inland AIS installations will be in brown print.**

Inland AIS is currently only applicable to European river going vessels.

GENERAL OPERATION

SYSTEM NAVIGATION
Use the **Arrow keys** to navigate the system views. Press **ENTER** ↵ to open a view. Press **Esc** to go back. The Numerical keypad can also be used for quick navigation.

CHANGING PARAMETERS
Many views contain parameters that can be edited. To edit a parameter, select it by using the **ARROW KEYPAD** and press **ENTER** ↵ . Press **BACKSPACE** ← to delete characters. Press **ENTER** ↵ to accept after editing or press **ESC** key undo changes. Select **SAVE** after editing to save and exit the view.

Enter data in the following ways:

1. **Numbers:** Press the **ALPHANUMERIC KEY** that corresponds to each digit. Some of the parameters are decimal numbers. The **OPT** button can then be used to insert a decimal point.

2. **Text:** Press the **ALPHANUMERIC KEY** that corresponds to each character. Press the key repeatedly to change character. Press the key **1** twice for special characters. Press function key **OPT** for Caps Lock setting.

3. **Selection List:** Use the ∧ ∨ keys to select between the predefined values.

4. **Selection List and numeric input:**
   In views like the **AIS Message Send** view it is possible to select a target MMSI in a list of predefined values based on received targets MMSI. It is also possible to enter any MMSI number. To do this, simply input a numerical value with the **ALPHANUMERIC KEYS.** Press **ENTER** ↵ when done.

DO NOT DISCONNECT TRANSPONDER POWER WITHIN 2 SECONDS OF A PARAMETER CHANGE!

BEFORE VOYAGE

SET VOYAGE RELATED PARAMETERS

Voyage related parameters, are set from the AIS Voyage view accessed from *Main Menu → Voyage → AIS Voyage*.

58° 23.8272' N	11:06 UTC
15° 41.9720' E	UTC Direct
AIS Voyage	Save
Parameter	Value
--General AIS--	
Navigational Status	Under Way Using Engine
Destination	STOCKHOLM
ETA (mm-dd hh::mm)	04-29 12:30 UTC
--Inland AIS--	
Draught	4.60 m
Air Draught	17.00 m

CONVOYS - INLAND AIS ONLY

When changing convoy arrangement it is necessary to update the Inland AIS vessel dimension settings.

Set Convoy size

Enter how much attached barges add to the total dimensions of the convoy in view *Main Menu→ Voyage→Convoy Settings*
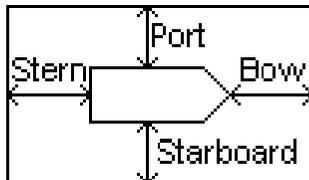
Settings for the total dimensions of the convoy

Set the ERI ship or convoy type

In the menu *Main Menu → Configuration → Ship Static* you need to enter the current ERI ship or convoy type.

DURING VOYAGE

SET NAVIGATIONAL STATUS

Open the view *Main Menu→ Voyage→ AIS Voyage.* Select correct NavStatus, select SAVE to set the new status and exit.

Alternatively: Enter *Main menu* and short press OPT key to quickly set NavStatus.

BRIGHTNESS AND DIMMING

Adjust LCD and LED dimming and Day/Night Mode under:
Main Menu → Config →Display → Visual

Press the OPT key for 5s to restore default brightness values.

ACKNOWLEDGE ACTIVE ALERTS

Use the **ENTER** ↵ key to acknowledge alert indications on the display.

Quick access to the alert list: press the ESC button for 3 seconds.

SET OPERATIONAL MODE

Under certain very special conditions, it may be necessary to disable VHF transmissions. Do not leave the system in this state longer than absolutely necessary and check if disabling TX is in compliance with your AIS carriage requirement.

Disable Tx in software

Open view *Main Menu → Operational Mode* and set **Tx Mode** to "**Silent**"

Disable Tx in hardware

Some NAUTICAST A2 installations may have a physical external transmission switch for this purpose. **Tx Mode** in view *Main Menu → Operational Mode* will be "**Silent Switch Used**" and the Tx mode can only be changed by turning the physical switch.

Consult the full user manual on details regarding installation and operation of the External Switch.

HANDLING SRM & TEXT MESSAGES

Safety related messages (SRMs) and text messages can be sent to specific targets (addressed messages) or broadcast to all targets.

Handling of messages is supported by the AIS Messages view accessible via *Main Menu → Messages → AIS Messages*:

A letter symbol will be displayed in the status bar when a message has been received.
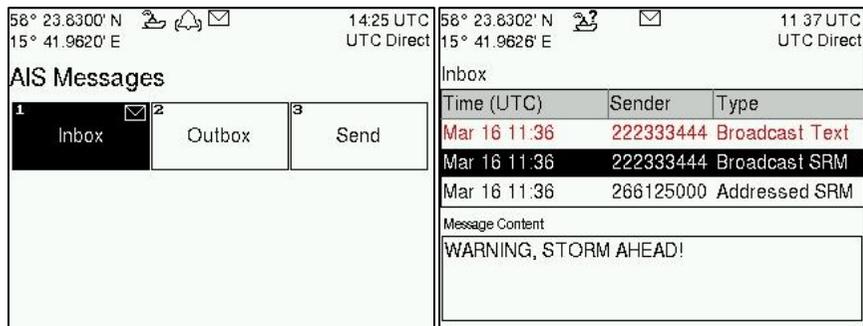
VIEW LIST OF AIS TARGETS

Open *Main Menu→Target List*

Select targets using the ARROW KEYPAD.

Press **OPT** to write a Safety Related Message (SRM) addressed the selected target.

Press **ENTER** ↵ for extended info about a target.

NOTE: Extended information is only transmitted every 6 minutes. Fresh targets may therefore not have complete information.

VIEW PLOT OF AIS TARGETS

Open *Main Menu→ Plot*

The plot can be zoomed in and out with the **UP** ∧ and **DOWN** ∨ keys on the ARROW KEYPAD. Use **RIGHT** > and **LEFT** < keys on the ARROW KEYPAD to step between the targets. Press **OPT** to write a Safety Related Message (SRM) addressed to a selected target.

TARGET SYMBOLS (TARGET LIST & PLOT)

Symbol	Description
⊥	Own ship (plot view)
⌂	Ship (Class A)
Ɪ	Ship (Inland, Blue Sign N/A)
☐	Ship (Inland, Blue Sign Off)
▣	Ship (Inland, Blue Sign On)
B	Ship (Class B)
■	Base Station
⚔	SAR
◇	Aids-to-Navigation (Aton)
‹⊕›	Virtual Aids-to-Navigation
⊗	SART

STATUS BAR ICONS

MESSAGE SYMBOLS

✉   Unread AIS message (Safety Related Message or Text Message)

✉ LR   Unread Long Range message (auto reply)

✉ LR!   Unread Long Range message (manual reply)

NAVIGATIONAL STATUS (OWN VESSEL ICONS)

⚓?   Navigational status is undefined

⚓   Under way using engine

⚓!   Navigational status is one of: Not under command, Restricted maneuverability, Constrained by her draught, Aground, Engaged in fishing, Under way sailing, Reserved for future use.

⚓   At anchor or moored

MISCELLANEOUS SYMBOLS
Alert Status Icon

🔊   Active, unacknowledged alert (priority: warning)

🔇   Active, silenced alert (priority: warning)

❗   Active, acknowledged alert (priority: warning)

❗   Active alert, (priority: caution)

1W   1W mode (Available only if Ship Type = Tanker, Navigational Status = Moored and the speed of the ship is less than 3 knots)

⬛   Blue Sign On

⬜   Blue Sign Off

🚫   Silent Mode activated, either with Tx Mode parameter or Silent Switch.
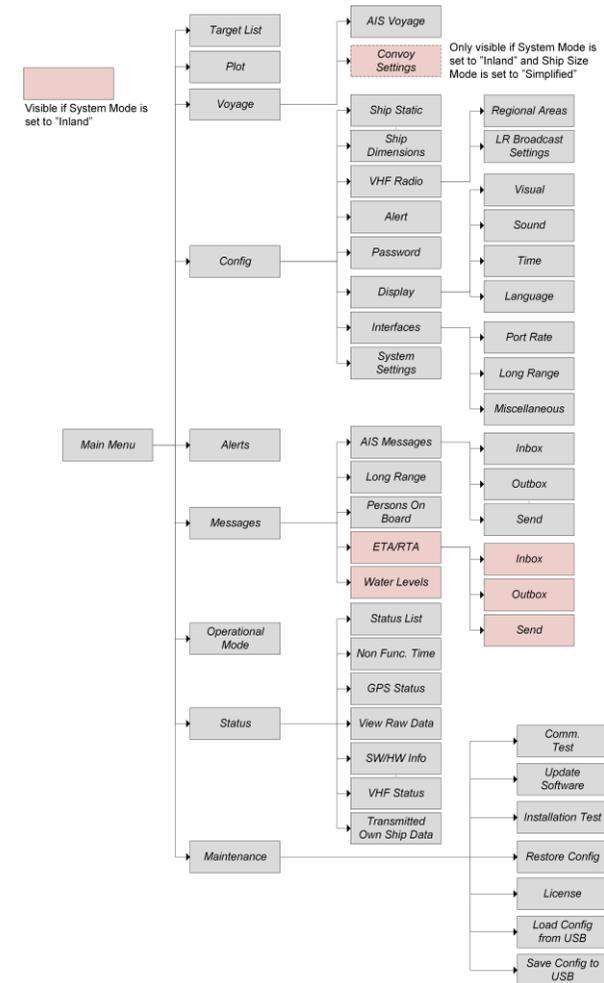
Menu tree of NAUTICAST A2 AIS
Note: ETA/RTA,Water Levels and Convoy is only visible in Inland Mode