

Sales Introduction

SAILOR 7222 VHF DSC Class A

COBHAM

Clarity in communications

SAILOR 7222 VHF DSC Class A



Part number: 407222A-00500

Including:

- SAILOR 7224 VHF DSC Control Unit
- SAILOR 6201 Handset
- SAILOR 7226 VHF Transceiver Unit

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SAILOR 7222 VHF DSC Class A

1 Introduction

Highly resilient and easy to operate in any situation, the SAILOR 7222 VHF DSC Class A is the most advanced SAILOR radio for demanding users operating within the SOLAS maritime environment. As a next generation solution at the forefront of radio technology, it unlocks new performance gains that improve critical safety and regular operational communication.

TECHNOLOGY UPDATED. GMDSS COMPLIANT

Exceeding standards set by IMO regulation for GMDSS Class A VHF, the August 2021 introduced Bridge Alert Management IMO resolution MSC.302(87), as well as IEC 62923-1 & IEC 62923-2, the SAILOR 7222 VHF DSC Class A is a robust platform for when clear communication could make the difference between a non-event or a major incident.

Building on the established technology leadership of former SAILOR VHF DSC radios, SAILOR 7222 VHF DSC features updated hardware and software to deliver even more reliability. Its new and innovative, user-friendly 5.5" TFT touch-screen interface further streamlines workflows and optimizes operational safety and efficiency.

FLEXIBLE FEATURES & DEPLOYMENT

SAILOR 7222 VHF DSC Class A VHF is quick and easy to install standalone, or as a core component of a SAILOR GMDSS console. Advanced networking functionality also significantly reduces the installation and service burden, when deployed as part of a fully compliant solution with other compatible SAILOR products, including mini-C, MF/HF, NAVTEX, Portable VHF and AIS.

2 Market

The SAILOR 7222 VHF DSC Class A complies with the requirements for VHF DSC Class A, which is part of the mandatory requirements for SOLAS vessels, and national GMDSS requirements. However, by always providing clear communication, the SAILOR 7222 VHF DSC Class A VHF is far more than just a means of meeting regulations.

It is a vital tool for daily vessel and fleet operations with the features and ruggedness for professional mariners on any vessel, from trawlers and workboats to merchant ships and specialist offshore vessels. It provides operators with a powerful, reliable and unique platform with easy operation for clear communication between vessels, shore and coastal VHF networks.

2.1 Requirement:

Vessels that must comply with the IMO SOLAS requirements should have two VHF's (Sea Area A3 and Sea Area A4) with DSC Class A installed, regardless of the sea area the vessel operates. The following table shows a simplified overview of the GMDSS requirements to SOLAS vessels that the SAILOR product portfolio covers:

Product/Sea area	Sea Area A1	Sea Area A2	Sea Area A3 TLX/Inm-C	Sea Area A3 Inm-C/Inm-C	Sea Area A4
Portable VHF	2/3	2/3	2/3	2/3	2/3
VHF DSC Class A	2	2	2	2	2
MF/HF		1 (MF)	1	1 (MF)	2
MF/HF Radio Telex			1		2
Inm-C			1	2	1*
NAVTEX	1	1	1	1	1
EPIRB SART	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2

1 All ships over 300 GRT in international trade, and for most nations Fishing vessels above 24 m
* Local variations may apply

Please note: This is an overview. Local regulations may require different setups

3 The product: SAILOR 7222 VHF DSC Class A (Part number: 407222A-00500)

The SAILOR 7222 VHF DSC Class A offers simplex/semi-duplex communication. One version including all variants is available (this simplifies logistics).

The SAILOR 7222 VHF DSC Class A consists of two main units connected with a standard Ethernet connection:

- SAILOR 7224 Control Unit including Handset
- SAILOR 7226 VHF Transceiver unit

It features simplified menu-driven operation via the responsive new touch-screen on the SAILOR 7224 Control Unit or a connected device with a browser to access the desired functions. Channels can also be selected using a rugged selection knob and the display can be customised with different colour themes for optimum readability and visibility both day and night.



3.1 What's in the Box?

The SAILOR 7222 VHF DSC Class A package includes all three core parts of the product. However, a few decisions must be made when ordering to ensure that you have the right items available when installed:

The standard SAILOR 7222 VHF DSC Class A (Part number: 407222A-00500) includes:

1) SAILOR 7224 VHF DSC Control Unit

- a. Control Unit
- b. DC Power Cable (2,5 m)
- c. Cable relief Kit
- d. Installation Guide

2) SAILOR 6201 Handset

- a. Handset
- b. Cradle
- c. Screw kit

3) SAILOR 7226 VHF Transceiver Unit

- a. VHF Transceiver Unit
- b. Screw Kit
- c. Installation Guide

Note: Mounting Bracket or Flush Mount Bracket kit for SAILOR 7224 VHF Control Unit must be ordered separately depending on installation needs.

Note: The Brackets used on the "old" SAILOR 6222 VHF DSC Class A can be reused

3.2 Features and Unique Selling Points (USP)

The SAILOR 7222 VHF DSC Class A is powerful GMDSS Class A VHF that offers users trustworthy and reliable GMDSS communication. All SAILOR VHF's are highly regarded by professionals because of their long lifespan, reliability and durability regardless of the environment that they are used in. Another trademark for all SAILOR VHF's is user-friendly operation and the new SAILOR 7222 VHF DSC Class A reflects this even further.

The professional seafarer has always preferred the easy operation of SAILOR VHF's and with the SAILOR 7222 VHF DSC Class A, they won't be disappointed. It offers a wide range of unique features and functions to support the user, making it far and away the best VHF DSC Class A on the market.

3.2.1 USP list:

- Unique touch-screen interface
 - Fast and responsive
 - Intuitive and easy to operate menu structure
 - 4 different colour themes for individual setup
 - Additional large, tactile buttons for specific features
- Famous SAILOR Replay feature – Now extended to 480 seconds for fast and easy message verification
- Handset design
 - Rugged and durable
 - Based on the legacy SAILOR handset
 - Quality feel in hand
 - Earpiece covers ear and reduces noise
- Built in high quality 6W loudspeaker
- All Channel tables in one unit
- Flexible installation for multiple users/locations
- Up to 4 SAILOR 6204 Control Speaker Microphones can be connected
- Up to 2 SAILOR 6201 Handsets can be connected
- Straightforward LAN based Service interface: LAN port connected
- Bridge Alert Management (BAM) compliant

3.2.2 Feature list:

- Programming of up to 100 private channels (P)
- Hi/Lo (25/1W)
- 25kHz channel spacing
- Dual- / Tri-watch and Scanning
- Connection for external 6W speaker
- LO Power forced control (for environments containing gas etc)
- NMEA0183 (support 61162-1 in) GNSS in
- EN 61162-450 interface
- VDR interface
- Printer interface through a print server
- Training programming available:
 - 1W + DSC on channel 69

3.3 Powerful transceiver

SAILOR VHF radios have always been known for their powerful transceivers and the SAILOR 7222 VHF DSC Class A is no exception. It is designed to maintain the most powerful output almost regardless of stress or conditions. The transmitter can maintain high output power even during heavy usage and receiver sensitivity is truly outstanding, which makes sure that reception is optimal. The transceiver design ensures that the vessel always has a powerful and reliable VHF during critical situations and in all conditions at sea.

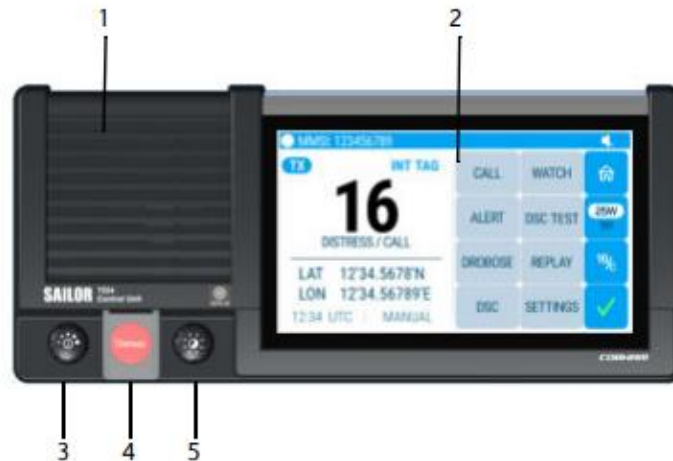
3.4 Interfaces

The SAILOR 7222 VHF DSC Class A has a standard NMEA 0183 (IEC 61162-1 support) interface as well as EN 61162-450 which is used for input from e.g., the vessel's standard GNSS.

3.5 Display and buttons

The touch screen and large buttons offer easy and intuitive operation.

3.5.1 Controls on the Control unit



- 1: Loudspeaker
- 2: Large 5,5" display with capacitive touch operation
- 3: Volume control, On/Off and squelch control
- 4: Distress button
- 5: Channel selector and dim control

3.5.2 Display

It is important that the user can quickly and easily understand the text on the display to operate the VHF safely and efficiently. The 5.5" TFT colour touch-display ensures that information can be read regardless of the light conditions on the bridge – day or night. The text in the display can be displayed in four colour themes:

- Dark (White on Black)
- Light (Black on White)
- Night (Red on Black)
- Cobham (Blue on White)

"White on Black" background is the factory setting, and provides optimal reading conditions in daylight and performs well at night also. For protection of night vision though, the text can also be displayed as "Red on Black" background. An optional colour scheme of "Blue on White" is also available, as is dimming control of the display on all colour themes.

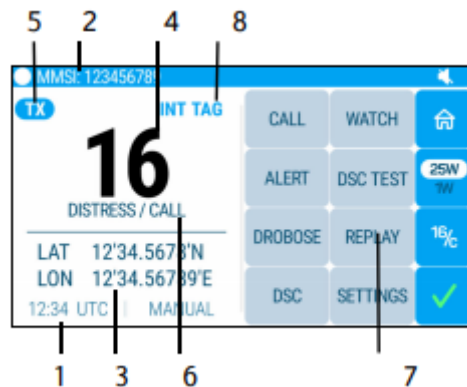
The display provides all text and numbers in large and easy-to-read fonts, and is very easy to read even from very wide angles, which enables users to view the displays even when occupied in another operation.

3.6 Device Interaction

The intuitive touch-screen menu structure design is highly influenced by modern device interaction. The menus are in English as standard.

3.6.1 Display overview

The picture below shows the display after start-up, with various fields of information, depending on the currently selected function.



1. UTC time
2. MMSI number
3. Position information (latitude and longitude)
4. Current working channel
5. Current communication direction: Rx (receive) or Tx (transmit)
6. Service line containing current temporary information relevant for the current channel or function
7. On-screen key functions
8. Channel properties of the currently selected VHF channel (if any)

3.6.2 SAILOR Replay

The SAILOR Replay function that was first introduced in the SAILOR RT5022 VHF and later for the SAILOR 6222 VHF DSC Class A will also be available in the SAILOR 7222 VHF DSC Class A. It is a unique tool that allows the user to listen to an incoming message again for verification purposes, ensuring that any instructions or updates are fully understood. The incoming call is stored in the radio and the operator can simply press the Replay button in the display should they need to listen to the call again. This clearly enhances safety and ensures that calls to the vessel are never missed. The Replay function in the SAILOR 7222 VHF DSC Class A has been extended even further and now records the previous 480 seconds of incoming communications.

3.6.3 Channel Tables

The SAILOR 7222 VHF DSC Class A is programmed from the factory with all the standard relevant channel tables: - International - US incl WX - Canadian - BI (European Inland Waterways) - Including ATIS and ATIS Killer. It is delivered including both the New International ITU Channel table as well as the "old" ITU channel table as an option. The operator can simply choose what channel table is needed from the menu, making it easier for the operator to ensure that the VHF operates on the locally specified channels. It also simplifies logistics in Cobham distribution channels as only one version is needed in stock to fulfil the requirements of vessels operating in different regions.

3.6.4 Private channels

The SAILOR 7222 VHF DSC Class A allows for up to 100 (P0-P99) private channels to be programmed directly on the Control Unit or using a standard browser on a PC connected to the LAN port. A password to access this function is included in the Installation manual and covered in training.

3.7 Mounting brackets, handsets and accessories

3.7.1 Mounting Brackets for SAILOR 7224 Control Unit

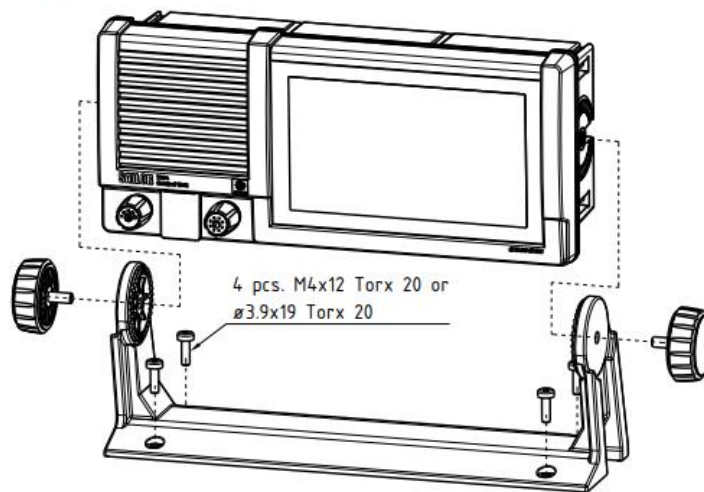
Mounting brackets for the SAILOR 7224 Control Unit **must** be ordered separately.

Note: The Brackets used on the "old" SAILOR 6222 VHF DSC Class A can be reused on the SAILOR 7222 VHF DSC Class A.

3.7.1.1 U-Mount Bracket (Part number: 407224A-930)

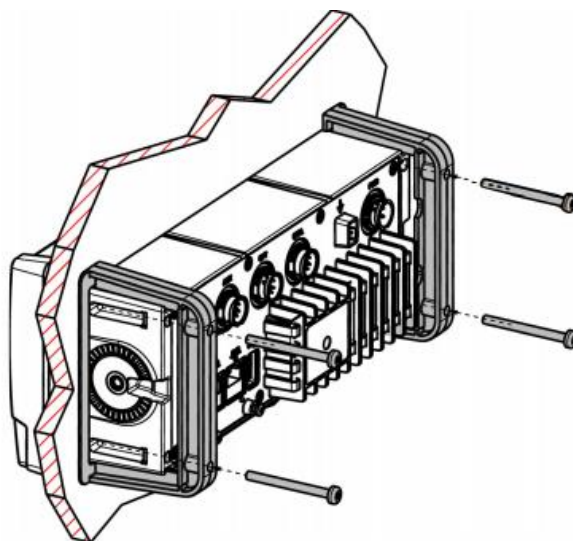
The U-Mount Bracket Kit for Desktop mounting including wheel knobs – Part number 407224A-930:

Desktop mounting



3.7.1.2 Flush Mount Bracket Kit (Part number: 407224A-950)

The Flush Mount Bracket Kit for Desktop mounting – Part number 407224A-950:



3.7.2 Handsets

3.7.2.1 SAILOR 6201 Handset (Part number: 406201A-00500)

One SAILOR 6201 Handset with cradle is supplied with the SAILOR 7222 VHF DSC Class A as standard. However, a total of 2 SAILOR 6201 Handsets (406201A-00500) can be connected to the SAILOR 7222 VHF DSC Class A.



Designed for the harsh environment at sea, the SAILOR 6201 Handset is the same as the popular handset used on the SAILOR 6222 VHF DSC Class A. Rounded edges make it comfortable to hold and the PTT switch is placed centrally to make it feel natural to activate when the operator wants to communicate. The handset curvature is designed to suit the typical head contour, making it comfortable and natural to operate, while the earpiece is designed to fit the ear comfortably to improve clarity in noisy environments. Further, for outgoing communication, the handset microphone is designed to significantly reduce the impact of external noise for the receiving party.

The SAILOR 6201 Handset features an integrated spiral cord connecting to the control unit through a circular plug. The cradle supplied is rugged and ensures that the handset can be installed at any angle; a built-in magnet switch activates the hook-off so a solid grip is necessary to lift the handset from the cradle.

3.7.2.2 SAILOR 6202 Hand Microphone (Part number: 406202A-00500)

The SAILOR 6202 Hand Microphone (406202A) can replace the SAILOR 6201 Handset in an installation. Only one SAILOR 6202 Hand Microphone can be connected to a Control Unit as the Hand Microphone does not include a hook off switch.



3.7.2.3 SAILOR 6203 Handset WP (Part number 406203A-00500)

The new SAILOR 6203 Handset Waterproof is the waterproof version of the SAILOR 6201 Handset. It is waterproof to IPx6 and ideal for installations where the handset may be exposed to water.

3.7.2.4 SAILOR 6204 Control Speaker Microphone (Part number: 406204A-00500)

The SAILOR 6204 Control Speaker Microphone gives the operator full control of all the main features and functions in the SAILOR 7222 VHF DSC Class A. It is designed for bridge wing installations and gives the operator full control of the VHF when operating the vessel from this location. The unique design fits perfectly into the hand and allows the operator to communicate easily and control key functions:

- Volume control
- Hi/Lo (25/1W)
- SAILOR Replay
- Channel selection
- Display dimming
- Display colour theme selection

The design of the SAILOR 6204 Control Speaker Microphone minimizes the requirements for space in the installation on the bridge wing, which can often be quite crowded. Up to 4 SAILOR 6204 Control Speaker Microphones can be connected to the SAILOR 7222 VHF DSC Class A. The SAILOR 6204 Control Speaker Microphone is waterproof to IPx6 and IPx8, which makes it ideal for installation in exposed positions.



3.7.3 Loudspeaker (Part number: 406270A)

The very powerful 6W external loudspeaker ensures excellent sound quality, even in the noisy bridge environment.

3.7.4 Printer interface

Direct printing from the SAILOR 7222 VHF DSC Class A is available through a print server.

3.8 Additional Accessories

A variety of accessories are available for the SAILOR 7222 VHF DSC Class A:

406208A	SAILOR 6208 Control Unit Connection Box including Connection Cable 406208-941
406207A	The SAILOR 6207 Connection Box for parallel Handsets including Connection Cable 406209-941
406209A	SAILOR 6209 Accessory Connection Box including Connection Cable 406209-941
406208-941:	Connection Cable for Bulkhead mount, Connection Cable with 12-pin male connector
406204-940:	5m Extension cable with plugs in both ends. One plug is for bulk mount. 12-pin cable for CAN
406209-941	5 mtr connection cable,10 pin for CU to connection box
406209-940	5 mtr connection cable,10 pin for bulk mount
406103A-00500:	SAILOR GMDSS Alarm Panel
406197A-00500:	SAILOR 6197 EDS-205 Moxa Switch

3.8.1 SAILOR 6208 Control Unit Connection Box (Part number: 406208A)

While the SAILOR 6204 Control Speaker Microphone can be connected directly to the SAILOR 7222 VHF DSC Class A, it is much easier to install via the SAILOR 6208 Control Unit Connection Box for multiple installations. The SAILOR 6208 Control Unit Connection Box is also used for connections through the AUX port to VDR, Alarm Panels, GNSS and the External Speaker. It is delivered including the 406208-941 Connection cable (5m) for easy connection to the SAILOR 7222 VHF DSC Class A.



3.8.2 SAILOR 6207 Accessory Connection Box (Part number: 406207A)

The SAILOR 6207 Accessory Connection Box is used for easy connection of external equipment and accessories such as:

- Hand Microphones
- Position Input

The SAILOR 6207 Accessory Connection Box can also be used for easy installation of multiple SAILOR Handsets. Connecting two additional handsets through the Connection Box enables the possibility to prioritize between the handsets. It is also used to provide a NMEA 0183 connection to the SAILOR 7222 VHF DSC Class A for AIS and GNSS. It is supplied with the

cable 406209-941 Connection Cable (5m) for easy connection of the box to the SAILOR 7222 VHF DSC Class A. In the installation below, the SAILOR 6207 Accessory Connection Box is connected to the ACC port.

Configuration Example – See the Installation Manual for different installation scenarios

3.8.3 SAILOR 6209 Connection Box (Part number: 406209A)

The SAILOR 6209 Connection Box is used to serial connect to a Bridge Alert Management system.

3.8.4 Connection cables

Two connection cables are available for easy installation – See the Installation manual for specific installation drawings:

- 406209-940: 5m Connection cable for bulkhead mount. Used in installations where the SAILOR 6201 Handset is not going to be connected directly to the SAILOR 7222 VHF DSC Class A but located in a different position.
- 406208-941: 5m Connection cable. Used in installations when connecting external equipment to the SAILOR 7222 VHF DSC Class A. It is included in the SAILOR 620x Accessory Connection Box and SAILOR 6208 Control Unit Connection Box.

3.8.5 SAILOR 6103 GMDSS Alarm Panel (Part number: 406103A-00500)

The SAILOR 6103 GMDSS Alarm Panel provides means of activating the GMDSS Distress Alarms in the products it is connected to. It can be connected to:

- 2 x SAILOR 6110 Inmarsat C GMDSS
- 2 x SAILOR 7222 VHF DSC Class A
- 2 x SAILOR 6300 MF/HF.

The new SAILOR 6103 GMDSS Alarm Panel is connected to the SAILOR 7222 VHF DSC Class A via the LAN port in. As it is also connected to the SAILOR 6110 Mini-C GMDSS and the SAILOR 6300 MF/HF, the Moxa Switch must be used. The SAILOR 6103 GMDSS Alarm Panel only requires connection to LAN and power cables, which is very simple installation and cabling compared to traditional alarm panels, where there must be one cable per product connected to the alarm panel.

3.8.6 SAILOR 6197 EDS-205 Moxa Switch (Part number: 406197A-00500)

The SAILOR 6197 EDS-205 Moxa Switch is used in installations with connection to the SAILOR 6103 GMDSS Alarm Panels and in LAN installations. Depending on the installation, one or more SAILOR 6197 EDS-205 Moxa Switches must be used:

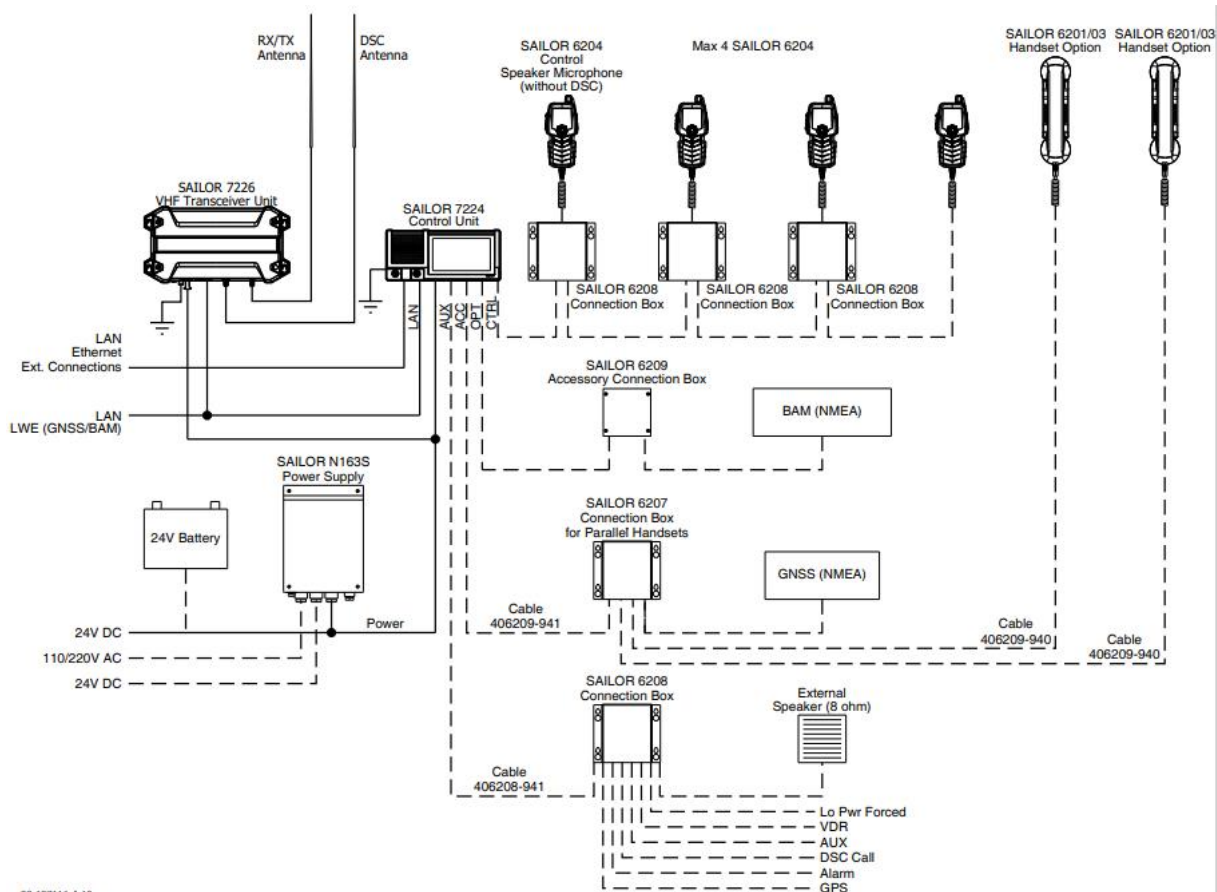
SAILOR 6197 EDS-205 Moxa Switch is a 5-port switch in addition, has an EN60945 approval allowing for marine installations.



4 Installation

The SAILOR 7222 VHF DSC Class A package includes most accessories needed for a standard installation. However, a few decisions must be made upon ordering to have the right items available when installed.

The SAILOR 7222 VHF DSC can be customized to suit any installation needs. The following illustration is one example of a system. For further configuration examples see the installation manual, Appendix B, System configurations.



The SAILOR 7224 Control Unit is the same shape and size as the current SAILOR 6222 VHF DSC Class A, meaning that it can fit into an existing SAILOR 6222 VHF DSC Class installation without any changes to the "cut out" on the bridge or the console where it is mounted. (See the Installation Manual for details)

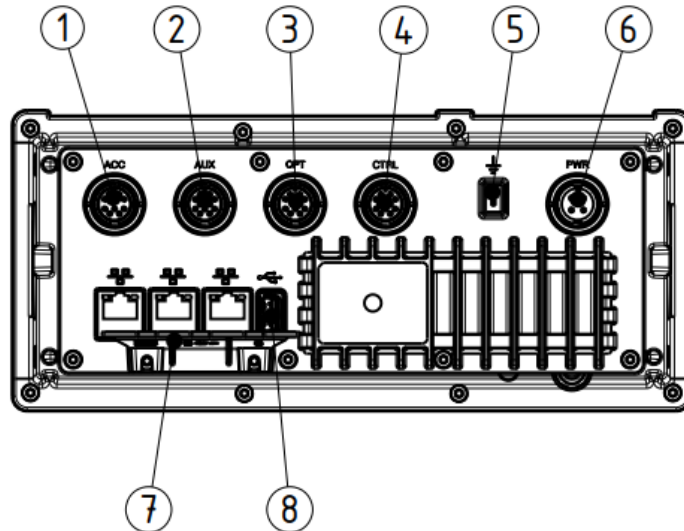
4.1 Programming

When powering up the radio for the first time, the operator is asked to enter the MMSI number. This can be done from the Control Unit or via LAN. The number can be changed (e.g., in case of a flag change) by connecting the SAILOR 7222 VHF DSC Class A via LAN to a PC and browser (requires password). Additional private channels can also easily be programmed from the Control Unit or PC using the LAN Cable that is connected to the LAN port of the VHF.

4.2 Connectors

4.2.1 Connectors on the SAILOR 7224 Control Unit

The Control Unit has the following connectors:

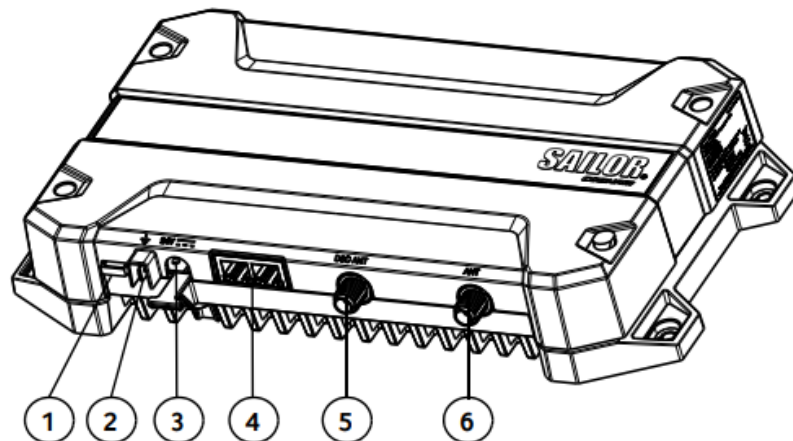


1. ACC connector for accessories
2. AUX connector for VDR, external speaker, alarm panels, GNSS input
3. OPT connector
4. CTRL connector
5. Cable lug for grounding
6. Power connector
7. 3 Ethernet connectors: LAN
8. USB connector

4.2.1.1 GNSS input

As all GMDSS equipment the SAILOR 7222 VHF DSC Class A requires input from an external GNSS. Normally the input is from the ship's main GNSS on board.

4.2.2 Connectors on the SAILOR 7226 VHF Transceiver Unit



1. Fuse
2. Ground
3. 24 VDC connection
4. 2 LAN connectors
5. DSC ANT connector for DSC antenna
6. ANT connector for VHF antenna

5 Service

Servicing for the SAILOR 7222 VHF DSC Class A will be handled through normal setup. The high-quality design, manufacturing and testing ensures that the SAILOR 7222 VHF DSC Class A is very reliable, however, if a unit should fail during the first months of use, the unit shall be replaced and returned to Cobham SATCOM for inspection and repair.

6 Approvals

As a fully IMO/GMDSS compliant product, the SAILOR 7222 VHF DSC Class A will receive the following Product Approvals

- MED-B (Wheelmark)
- FFC
- Industry Canada
- Chinese - CCS
- Russian – RMRS
- Brazilian - Anatel
- UK

Some of these may not be available upon launch but will be available as soon as possible.

Please contact your dedicated Cobham SATCOM sales staff for further discussion regarding specific needs that you may have.

7 Technical Specification

7.1 SAILOR 7226 VHF Transceiver:

Item	Specification
Weight	1.5 kg (3.3 lbs)
Dimensions	Height: Outer dimension 161 mm Width: Outer dimension 306 mm Depth: Outer dimension 51 mm
Operating temperature	-15°C to 55°C (5°F to 131°F)
Storage temperature	-25°C to 70°C (-13°F to 158°F)
Ingress Protection	IP20
Power supply	24 VDC +30%/-10%
Power consumption (typical)	Rx operative: 8 W Tx 25 W operative: 65 W Tx 1 W operative: 18 W
Heat dissipation (typical)	Rx operative: 8 W Tx 25 W operative: 40 W Tx 1 W operative: 17 W
RX/TX ant. Input/output	50 ohm @ TX voice/TX DSC & RX voice
DSC ant. Input	50 ohm @ RX DSC
LAN	2 LAN ports Category 6 STP

Item	Specification
Frequency range	Voice: 156.000 MHz — 164.000 MHz DSC: 156.525 MHz
Channel spacing	25 kHz, all international maritime channels
Number of P channels	The radio may be programmed with up to 100 private channels in all channel modes.
Modulation	16K0G3E, 16K0G2B (DSC)

Item	Specification
Transmitter	
RF output power	High: 25 W +0 dB / - 1.5 dB Low: 1 W +0 dB / - 1.5 dB
Frequency error	+/- 3ppm
Adjacent channel power	Below 80 dB
Conducted spurious emission	Below 0.25 mW
Distortion	Below 3%
S/N ratio	Better than 46 dB
Receiver @ voice	
Sensitivity	< -119 dBm typically @ 20 dB SINAD CCITT weighted
LF power	Built-in loudspeaker: 6 W (at 5 kHz dev./1 kHz tone) External loudspeaker: 6 W / 8 Ohm
Distortion	Below 5%
Spurious emissions	Below 2 nW
Spurious response rejection	80 dB
Intermodulation response	76 dB
Co-channel rejection	Better than -10 dB
Adjacent channel selectivity	80 dB
Blocking response	Better than 100 dB μ V @ $\pm$ 1 MHz
Receiver @ DSC	
Sensitivity	-117 dBm
Adjacent channel selectivity	Below 80 dB
Intermodulation response	Better than 70 dB μ V
Blocking response	Better than 100 dB μ V

7.2 SAILOR 7224 Control Unit

Item	Specification
Weight	1.0 kg (2.2 lbs)
Dimensions	Height: Outer dimension 107 mm, hole height for flush mount 89 mm Width: Outer dimension 241 mm, hole width for flush mount 227 mm Depth: Outer dimension from front of knobs 104 mm, depth for flush mount 94 mm
Operating temperature	-15°C to 55°C (5°F to 131°F)
Storage temperature	-25°C to 70°C (-13°F to 158°F)
Ingress Protection	IP54 when flush-mounted (Estimated, only front exposed) IP20 for other installation (whole unit exposed)
Power supply	+24 V DC nom. (-10% / +30%)
Power consumption	10 W @ 24 VDC standby 33 W @ 24 VDC max
Heat dissipation	8.5 to 15 W
Display	5.5" TFT with capacitive multi touch – 350 cd/m2 . (e.g. 800x600 , 1024x768) – 40k Hours to half Brightness
Speaker	Internal speaker – Max audio output power: 6W (internal LS @ 5 kHz deviation/1kHz)
LAN	2 LAN ports supporting RSTP and 10/100 Mbit 1 LAN port not supporting RSTP
USB	USB 2.0
CTRL_Port	Supporting up to four SAILOR 6204
ACC_Port	Supporting Handset & Hand Microphone. NMEA for GNSS and AIS
AUX_Port	Support for VDR, Alarm I/O, GNSS, AUX OC and Ext. Speaker. Max audio output power: 6W (external LS @ 5 kHz deviation/1kHz)
OPT_Port	Supporting NMEA RX and TX for BAM support

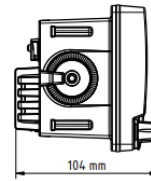
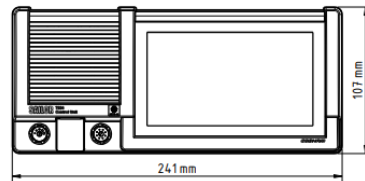
7.3 General DSC Specifications

Item	Description
DSC operation	According to: - ITU-R M.493.15 - ETSI EN 300 338-1 - ETSI EN 300 338-2
DSC protocol	According to Rec. ITU-R M.493-13 - Class A, IEC 61097-3 and IEC 61097-8
Navigator interface	According to IEC 61162-1 GLL, RMC, ZDA, GGA, VTG, GNS
Modulation	1700 Hz $\pm$ 400 Hz. 1200 baud

8 Installation Guide

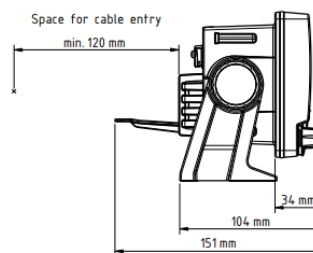
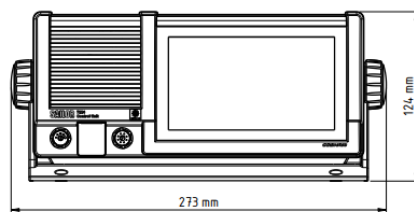
8.1 SAILOR 7224 VHF Control Unit

Dimensions

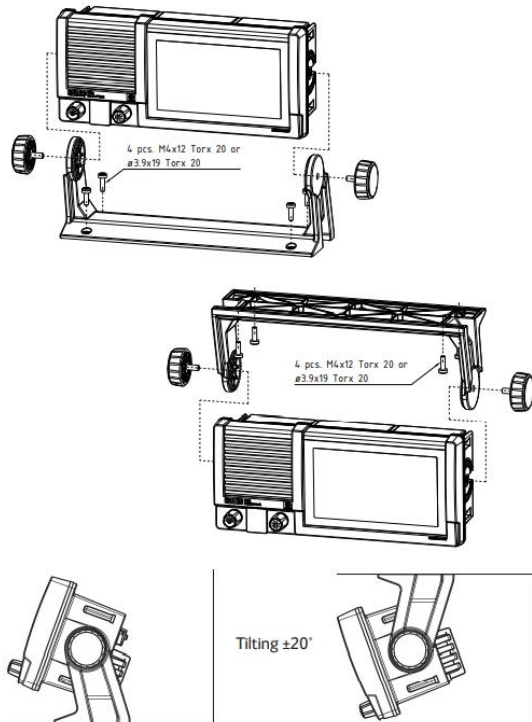


Weight: 1 kg / 2.2 lbs

Dimensions - Incl. U-mount bracket and cable relief

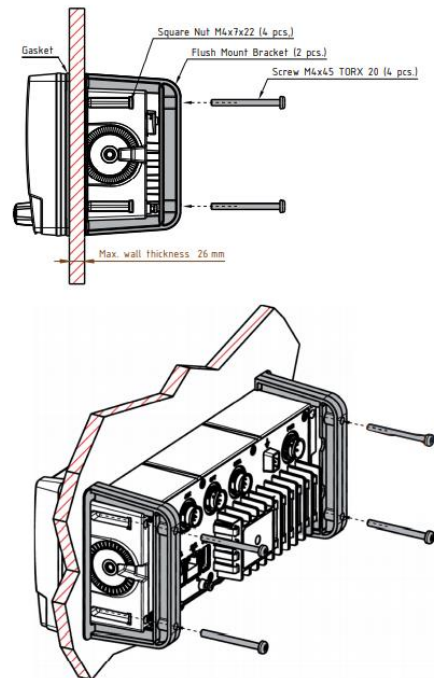


Installing with U-mount bracket kit



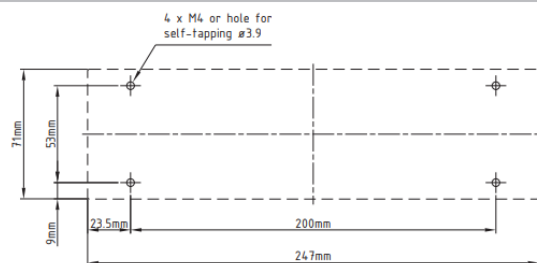
Accessories: U-mount bracket kit, part no. 407224A-930

Installing with Flush mount kit

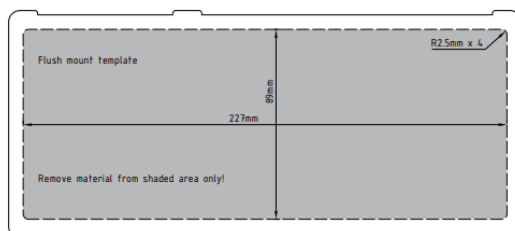


Accessories: Flush mount bracket kit, part no. 407224A-950

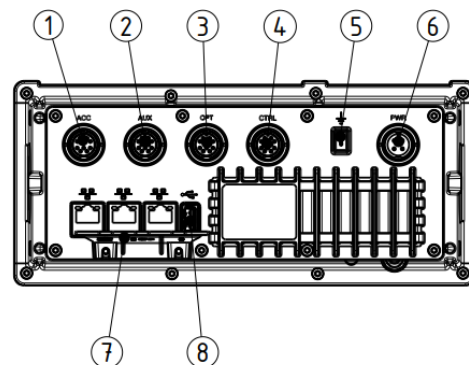
Drilling plan - U-mount bracket



Cut out - Flush mounting

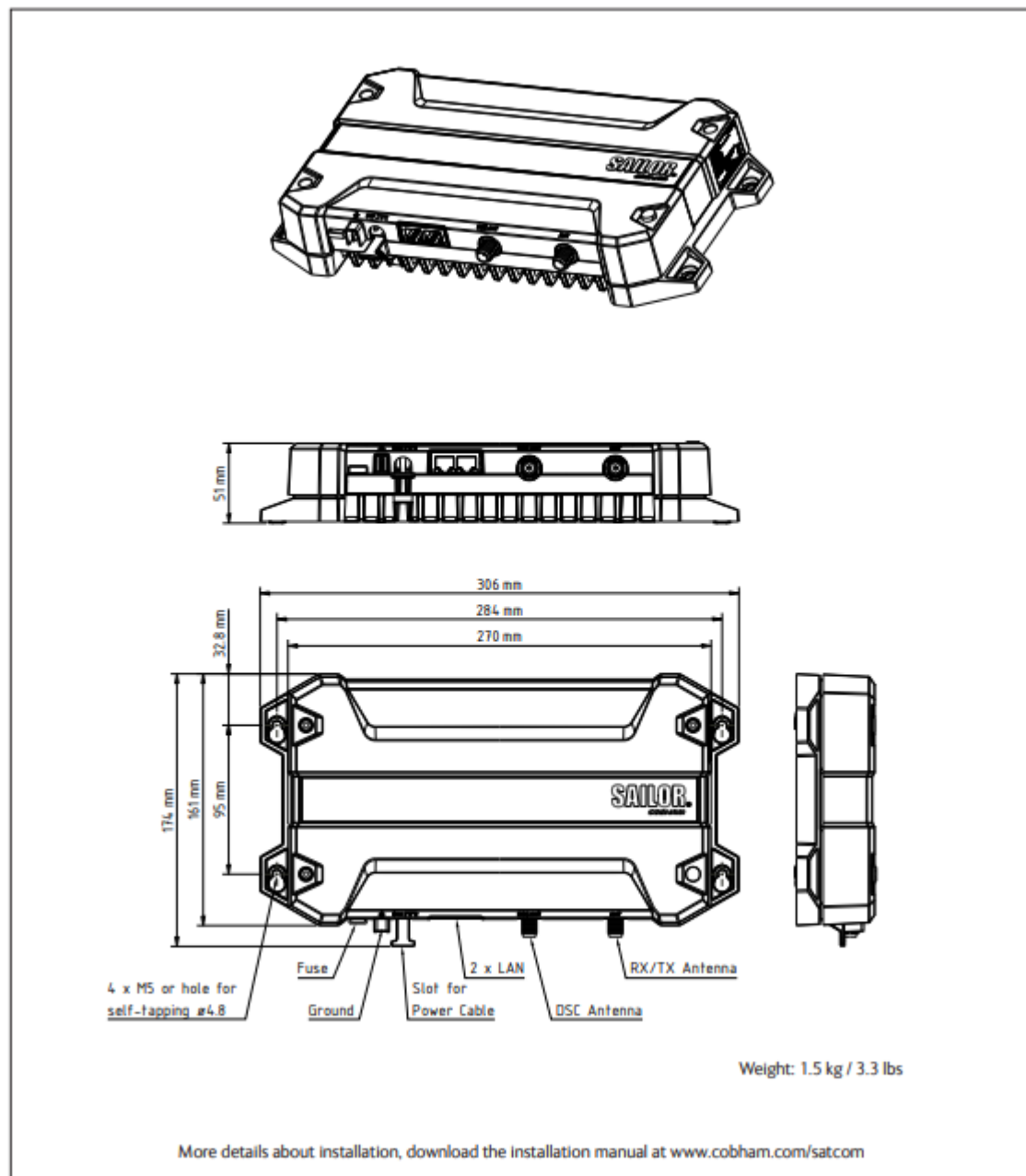


Connections



1. ACC connector for accessories
2. AUX connector for VDR, External speaker, DSC alarm, GPS input
3. OPT connector
4. CTRL connector for SAILOR 6204 Control Speaker Microphone or SAILOR 6208 Connection Box
5. Ground stud for grounding
6. Power connector
7. LAN connectors for Ethernet and Ext. Connections
8. USB connector

8.2 SAILOR 7226 VHF Transceiver Unit



8.3 System Configuration - Example

