

1.11 Regional Operating Channels

AIS operates primarily on two dedicated VHF channels, CH 2087 and CH2088. Where these channels are not available regionally, the AIS is capable of being automatically switching to designated alternate channels by means of a message from a shore facility. Where no shore based AIS or GMDSS sea area A1 station is in place, the AIS should be switched manually as in paragraph 1.11.2.

A regional operating area is set with the procedure below. The most recent eight areas are memorized.

- Automatic setting of VHF DSC (channel 70) from shore-based AIS
- Automatic setting by AIS message from shore-based AIS
- Setting by shipboard system such as ECDIS
- Manual setting

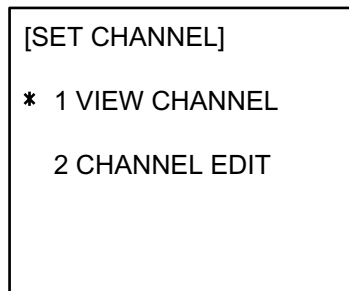
The default area is as follows:

- Tx power: 12.5 W
- Channel no. 2087, 2088
- Frequency bandwidth: 25 kHz
- Tx/Rx mode: Tx/Rx

1.11.1 Viewing channels, Tx power

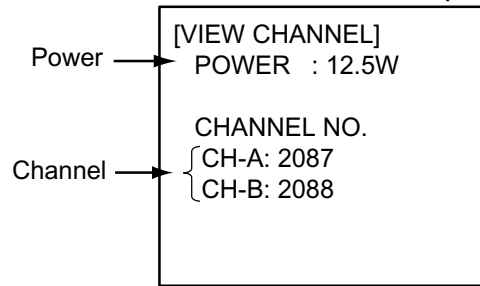
Do the following to view current channels.

1. Press the [MENU] key to open the menu.
2. Press the [6] key to open the SYSTEM SETTINGS sub-menu.
3. Press the [2] key to choose SET CHANNEL.



SET CHANNEL menu

4. Press the [1] key to show the VIEW CHANNEL display.



VIEW CHANNEL display

5. Press the [MENU] key to close the display.

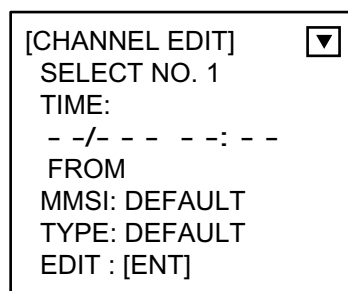
1.11.2 Displaying, editing regional operating area status

You may display the status of regional operating areas currently memorized in the equipment. Nine of any combination of AIS message from shore-based AIS, DSC message, manual settings and commands from ECDIS or a PC may be registered and one will be a default value.

About registering areas

- AIS and DSC messages registered within last two hours cannot be edited.
- An item labeled DEFAULT cannot be registered. (“DEFAULT” are data used for international waters not controlled by shore-based AIS.)
- If two areas overlap one another the oldest data is deleted.
- Data older than five weeks is deleted.
- Area data is deleted when it is more than 500 miles from the area for which it was registered.

1. Press the [MENU] key to open the menu.
2. Press the [6] key to open the SYSTEM SETTINGS sub-menu.
3. Press the [2] key to choose SET CHANNEL.
4. Press the [2] key to open the CHANNEL EDIT sub-menu.



CHANNEL EDIT sub-menu, page 1

SELECT NO.: File number, 1-9. In order of distance from own ship, from closest to furthest.

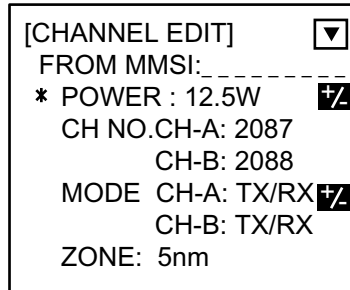
TIME: Data and time equipment controlled by external source.

MMSI: MMSI displayed for control by DSC or shore-based AIS. Dashes or “EMPTY” (no data) otherwise.

TYPE: How channel is controlled:
AIS, AIS message; PI, ECDIS or PC; DSC, DSC, MANUAL,
manual control

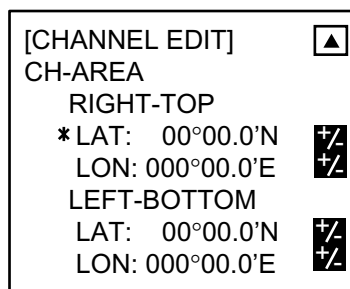
Note: MMSI and TYPE must be set to other DEFAULT to edit.

5. Use the [▲] or [▼] key to choose file number from SELECT NO.
6. Press the [ENT] key to show details.



CHANNEL EDIT sub-menu, page 2

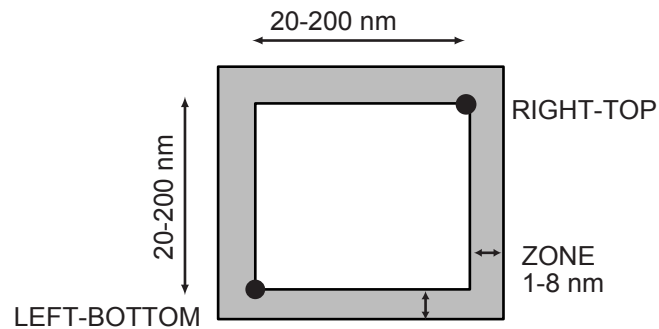
7. POWER is selected; press the [SFT/ +/-] key to choose power: 12.5 W or 2 W.
8. Press the [NEXT] key to choose CH NO.
9. Key in channel number for channel A and B with the numeric keys.
10. Press the [NEXT] key to choose MODE.
11. Press the [SFT/ +/-] key to assign mode for channel A and B. Each time the key is pressed the selection changes in the sequence of TX/RX, TX/RX; TX/RX, RX; RX, TX/RX; RX, RX; RX, UNUSED; UNUSED, RX.
12. Press the [NEXT] key to choose ZONE. In this zone, the #1 channel in selected area and the #1 channel in the adjacent zone are used for communications.
13. Key in the zone distance. The setting range is 0 to 8 (nm), and the default setting is 5 nm.
14. Press the [NEXT] key to go to the next page.



CHANNEL EDIT sub-menu, page 3

15. Key in the latitude and longitude for the right-top position (northeast point) of the AIS operating area. Use the [SFT/ +/-] key to switch coordinate, if necessary.
16. Press the [NEXT] key to choose LEFT-BOTTOM.
17. Key in the latitude and longitude for the left-bottom position (southwest position) of the AIS operating area. Use the [SFT/ +/-] key to switch coordinate, if necessary.

Note: The available range is 20-200 nm. If the area contains overlapping data the older data will be erased.



Description of RIGHT-TOP, LEFT-BOTTOM, ZONE

Note: To check or edit settings on previous page, press the [NEXT] key while pressing the [SFT +/-] key.

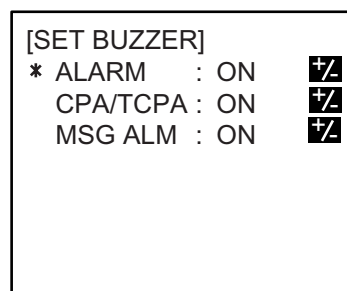
18. Press the [ENT] key.
19. YES is selected; press the [ENT] key to register settings. (If the password entry screen is displayed, MMSI is set to DEFAULT. This cannot be changed.)
20. Press the [MENU] key several times to close the menu.

Note: If you enter invalid data an appropriate error message appears. Press the [ENT] key and then reenter data.

1.12 Enabling/Disabling the Buzzer

The buzzer that sounds against CPA or TCPA violation, message reception and system trouble may be enabled or disabled as below. Note that this buzzer is not related to a radar or ECDIS alarm.

1. Press the [MENU] key to open the menu.
2. Press the [6] key to open the SYSTEM SETTINGS menu.
3. Press the [5] key to choose SET BUZZER.



SET BUZZER menu

4. ALARM is selected; press the [SFT/ +/-] key to choose ON or OFF as appropriate. This alarm is given to system trouble.
5. Press the [NEXT] key to choose CPA/TCPA or MSG ALM, and then press the [SFT/ +/-] key to choose ON or OFF as appropriate.
6. Press the [ENT] key to register settings.
7. Press the [MENU] key several times to close the menu.