



## RAY230E VHF Radio



Switches to DSC Individual Ships Call mode for initiating ship-to-ship or ship-to-shore calls using a specific MMSI number.



Switches to the All Ships Call mode for Safety and Urgency transmissions.



Switches between the Working Channel and the Priority Channel. When the transceiver's main power switch is turned on, 16/POWER also powers the system ON or OFF.



Changes the volume of the handset.



Increases or decreases the squelch sensitivity. Also used as a scroll key for selecting menu items and other settings.



Initiates the Dual-Watch monitor mode. Pressing FUNC + MON/TRI starts the Tri-Watch monitor mode.



Alternately inputs the characters 2, A, B, and C. Pressing FUNC + 2/SCAN toggles ON and OFF the Scan mode.



Alternately inputs the characters 3, D, E, and F. If equipped with the DTMF option, pressing FUNC + 3/CELL connects the handset with any auxiliary communication equipment with DTMF interface that is connected to the AUX port on the base station transceiver.



Alternately inputs a 1 or a space character. Pressing FUNC + 1/MEM enters the channel number indicated on the LCD into memory or, if the currently indicated channel has already been stored, deletes that channel from memory.



Alternately inputs the characters 5, J, K, and L. Pressing FUNC + 5/PRIV initiates Private Channel mode. To select the desired Private Channel, input the number keys corresponding to the desired channel number and press the ENT key.



Alternately inputs the characters 6, M, N, and O. Pressing FUNC + 6/WX switches between the Working and Weather Channels, if in US frequency mode.



Alternately inputs the characters 4, G, H, and I. Pressing FUNC + 4/US switches between the International and US frequency groups.



Alternately inputs the characters 8, T, U, and V. Pressing FUNC + 8/M-CALL toggles ON and OFF the Multi-Call mode.



Alternately inputs the characters 9, W, X, Y, and Z. Pressing FUNC + 9/1/25 switches the transmission power between 1W and 25W.



Alternately inputs the characters 7, P, Q, R, and S. Pressing FUNC + 7/D/L switches receiver sensitivity between Distant (full) and Local (attenuated) modes.



Inputs the number 0. Pressing FUNC + 0/IC toggles ON and OFF the Intercom mode, which enables conversation between handsets.



Inputs the # character. Pressing FUNC + #/FOG toggles ON and OFF Fog Alert mode, which enables a Hailer Horn speaker to sound several types of automatic or manual alert tones.



Inputs an asterisk (\*) character. Pressing FUNC + \*/HAIL toggles ON and OFF the Hailer mode, which enables a Hailer Horn speaker to be used as a loud speaker or a directional microphone.



Exits the current mode and reverts to the last used mode or normal operation. Also used to clear any alphanumeric inputs, one at a time, in the order that they were entered. Pressing FUNC + CLR/LOG turns ON and OFF the Digital Selective Calling (DSC) Log.



Initiates the Function mode and activates the FUNC indicator in the LCD display. The next key pressed determines the function selected. Pressing this key twice starts Dimmer mode, which adjusts the brightness of LCD's backlight.

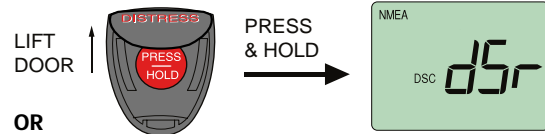


Performs the Enter function. Used to confirm and implement an input action. Pressing FUNC + ENT/MENU initiates Menu mode.

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## DSC DISTRESS CALL

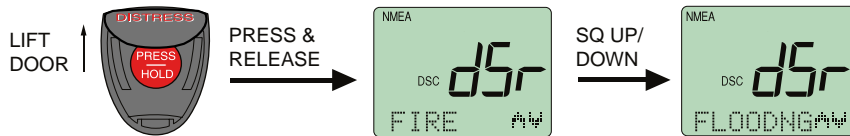
- 1 Lift the door labeled DISTRESS on the back of the handset.
- 2 **Without Specifying the Type of Distress (QUICK)**  
1. Press **and hold** the DISTRESS button. **dSr** flashes and **DSC** illuminates on display.



OR

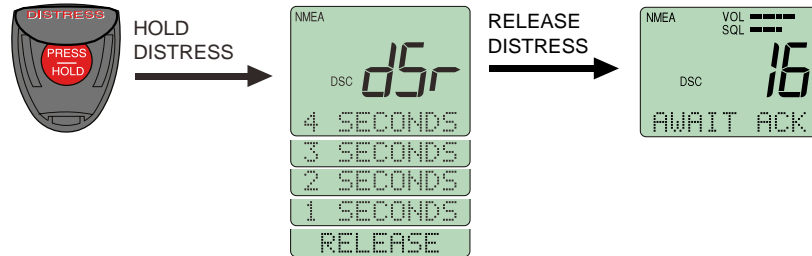
### Specifying the Type of Distress (OPTIONAL)

1. Press **and release** the DISTRESS button. **dSr** flashes and **DSC** illuminates on display.
2. Use the SQ UP and SQ DOWN keys to select the type of distress.
3. Press **and hold** the DISTRESS button to send.

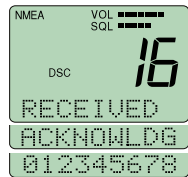


- 3 Continue to hold the DISTRESS button for a 4 second countdown. Release the DISTRESS button after the countdown has completed and the message **RELEASE** appears on the dot matrix display. The unit sounds a loud alert tone, switches to channel 16 and monitors for acknowledgement.

**Press and release CLR to mute the alert tone. This does not interrupt the Distress Call.**



- 4 When a response is received, the LCD scrolls a message that the DISTRESS has been acknowledged, along with the sending station's MMSI number or nickname. The message and alert are repeated until the CLR key is pressed.

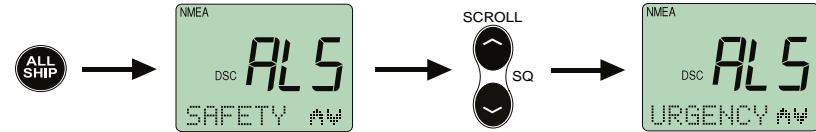


- 5 Press PTT to speak with the acknowledging station on channel 16.

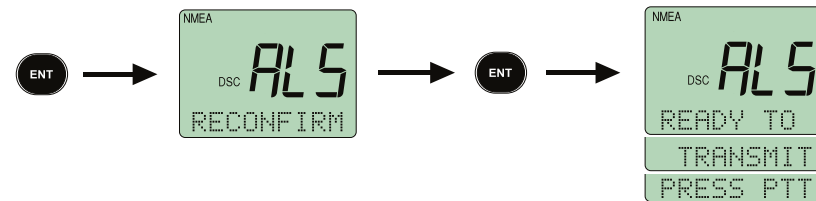
## DSC ALL SHIPS CALL

Makes a DSC call to All Ships in the area when assistance is needed but the ship is not in distress. Select between a SAFETY call for advisory alerts or an URGENCY call for assistance when life is not in immediate danger.

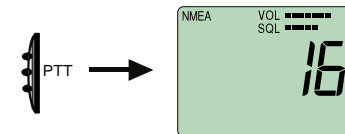
- 1 Press the ALL SHIP key. Press the SQ UP/DOWN keys to toggle between SAFETY and URGENCY.



- 2 Press the ENT key to submit your selection. The prompt **RECONFIRM** is displayed. Press the ENT key to confirm.

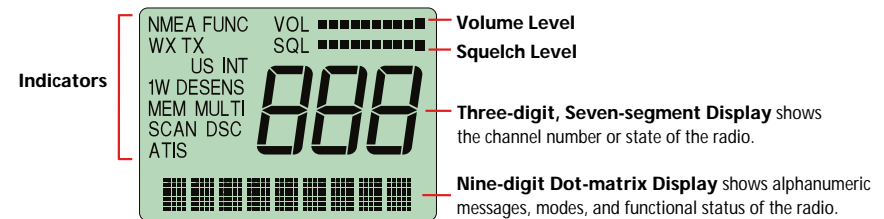


- 3 Press and release PTT to transmit the SAFETY/URGENCY call. The radio switches to Channel 16.



- 4 Press PTT to converse with receiving stations on Channel 16.

## RAY230E DISPLAY



**Indicators** Illuminate during the following conditions:

- NMEA** Receiving valid SeaTalk or NMEA position data.
- FUNC** FUNC key has been pressed.
- WX** Radio in Weather Channel mode.
- TX** Radio in Transmit mode.
- US** US Frequency Group selected.
- INT** International Frequency Group selected.
- 1W** 1 Watt Power Transmission mode.
- DESENS** Desensitized (local) Receiving mode.
- MEM** Active channel is stored in memory.
- MULTI** Active channel stored in Multi-Call memory.
- SCAN** Radio in Scan mode.
- DSC** DSC call mode; DSC log or DSC menu active.
- ATIS** Automatic Identification Transmission active.

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