

operation instructions

USER'S MANUAL



Marine handheld walkie talkie
Professional transceiver

■ CAUTION

- Please power off in flammable and explosive environment.
- The radio meets IPX7 waterproof requirement. However, once the radio has been dropped, waterproof protection cannot be guaranteed because of possible damage to the radio's sealed structure.
- Make sure the earphone/charging jack cover is fixed tightly to avoid water leakage.
- Make sure the battery cover buckle is fixed tightly to avoid water leakage.
- Please use the supplied AC adaptor or DC charger for charging.
- When installing the battery, the positive (+) and negative (-) electrodes must correspond one by one. Do not install them in the opposite direction.

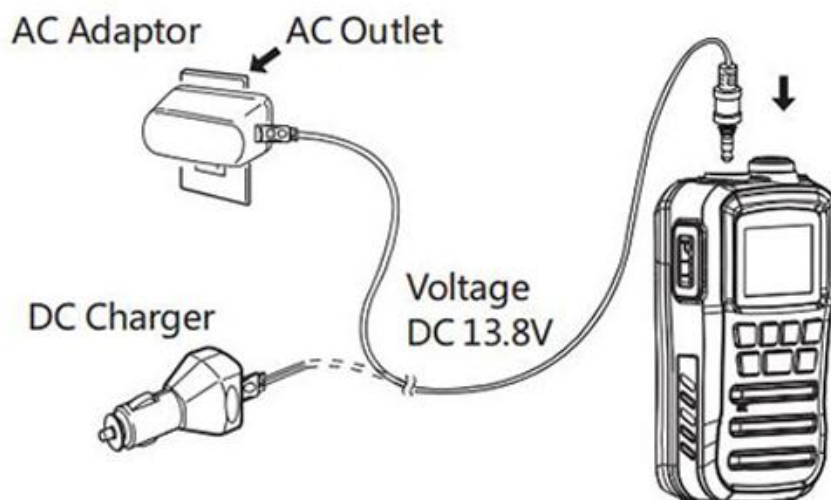
■ Standard Accessories

Carefully unpack the radio. We recommend that you identify items listed in the following table before discarding the packing materials.

Items	Qty.	Items	Qty.
Antenna	1	AAA NiMH Batteries	5
AC Adaptor	1	Belt Clip	1
DC Charger	1	Hand Strap	1
USB Cable	1	Instruction Manual	1

■ Charging the Batteries

1. Plug the AC adaptor into an AC outlet, or plug the DC charger into the cigarette lighter.
2. Rotate to remove the earphone/charging cover, insert the output terminal into the charging interface, keyboard red light on, and start charging.

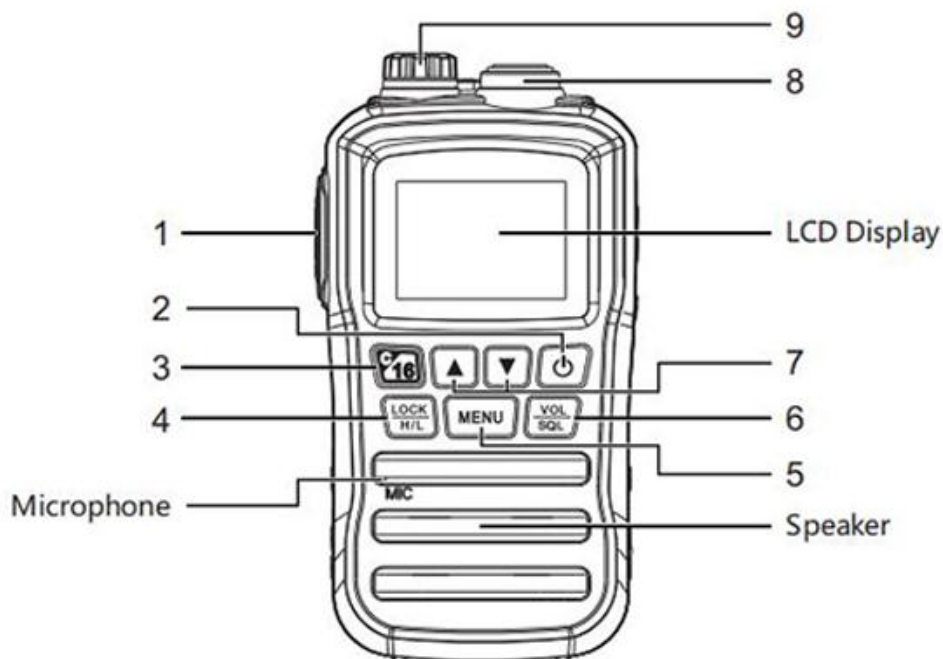


2. The time for NiMH batteries to be fully charged depends on the battery power. Charging should not exceed 10 hours when power OFF, and can not exceed 18 hours when power ON.

※ **It is recommended to charge when power OFF.**

※ **Notice: If alkaline batteries are used, NEVER charge, otherwise alkaline batteries and the radio will be damaged.**

■ Get Acquainted



◆ Keyboard Description

1. **[PTT] Key:**
Hold down [PTT] to transmit, speak with normal tone.
Release [PTT] to receive.
2. **[] Power Key:**
Hold down this key for 1 second to power ON/OFF the radio.
3. **Channel 16/CALL Channel [C/16]:**
Press to select Channel 16; Hold for 1 second to select Call Channel.
 - When the Call Channel is selected, hold for 3 seconds to enter the Call Channel programming mode.
 - While in the menu mode, press this key to exit.
4. **High/Low Power/Lock Key [LOCK]/[H/L]:**
Press to select high or low output power; Hold for 1 second to turn Lock Function ON or OFF.
5. **Menu Key [MENU]:**
Press to enter menu mode; Hold for 1 second to set or clear the TAG channel.
6. **Volume/Squelch/Monitor Key [VOL/SQL] /[MONI] :**
Press to enter the volume adjustment mode; Press again to enter the squelch adjustment mode; Hold for 1 second to active the Monitor function.
 - While holding this key, press [▲] to turn on the Volume Maximum Function, repeat again to turn off this function.
 - While holding this key, press [▼] to turn on the Volume Mute Function, repeat again to turn off this function.
7. **Up/Down Key [▲]/[▼]:**
While standby, press to select operating channel; While in the menu mode, press to select the menu items; While in channel scan, press to change the scan direction.
8. **Antenna Connector:**
Connect with 50Ω supplied antenna.
9. **Earphone/Charging/Programming Jack [SP/MIC]/[CHR]:**
For connecting external earphone/microphone; For connecting AC Adaptor/DC Charger; For connecting programming cable.
 - Rotate the jack cover counter-clockwise to open; Rotate clockwise to close.

※ **NOTICE:** Make sure the jack cover is fixed tightly.

◆ Display

ICON	DESCRIPTION
	Appears while transmitting.
LOW	Appears while selecting low power. Flashes when forced to select low power.
USA	Appears while USA Channel Group is selected.
INT	Appears while INT Channel Group is selected.
CAN	Appears while CAN Channel Group is selected.
	Appears while channel is busy. Flashes while motoring channel.
	Appears when TAG Channel is selected.
CALL	Appears when Call Channel is selected.
	Battery indicator.
SCAN	Flashes while scanning.
	Appears while keyboards are locked.
DUP	Appears while a duplex channel is selected.
DUAL	Appears while dual watch.
TRI	Appears while tri-watch.
	Indicates the operating channel number. Indicates menu item options in menu mode.
	Indicates auxiliary channel. Indicates menu mode items in menu mode.
	Appears while weather alarm.
WX	Appears while weather channel is selected.

■ Main Function Operation

◆ Select Channel Group

- This radio contains USA, International and Canadian Channel Group.
- In standby mode, press [MENU] key, then press [LOCK] key to switch Channel Group.

◆ Select Weather Channel

This radio has 10 weather channels.

- In standby mode, press [MENU] key, then press [VOL/SQL] key to switch between operating channel and weather channel.

◆ Edit CALL Channel

1. Hold [C/16] key for 1 second to select CALL Channel, "CALL" and CALL channel number are displayed.
2. Then hold [C/16] key for 3 seconds until two "DUDU" sound are heard to enter CALL channel programming mode, channel number flashes.
3. Press [▲]/[▼] key to select desired CALL Channel.
4. Press [C/16] key to confirm and save CALL Channel.

◆ Set/Cancel TAG Channels

Set TAG (★) for channels need to be scanned, cancel TAG (★) for channels which are no need. The untagged channels will be skipped during the scanning.

- Set/Cancel Single TAG Channels: Hold [MENU] key for 1 second to set/cancel the current channel as TAG channel, "★" displayed for channels which are tagged.
- Set/Cancel All TAG Channels: While Power OFF, hold [LOCK] key and press [⏻] key to power ON, all TAG channels will be canceled in the selected channel group. Repeat the above operations to set all channels as TAG channels.

◆ Scan Operation

Set scan resume timer in the menu mode.

1. Enter " **Scdu** " menu item to select Scan, exit menu mode to start Normal Scan or Priority Scan.

- "SCAN" flashes on LCD.
- "16" appears on the sub channel readout during priority scan.
- The scan pauses when a signal is received (The resume time can be set in the set mode).
- Channel 16 is monitored in priority scan.
- Press [▲] or [▼] to change the scan direction.

2. Press [MENU] key again, or press [PTT]/ [C/16]/ [⏻] to stop scanning.

◆ Watch Operation

This radio contains Dual/Tri Watch, can be selected in the menu mode.

Dual watch: Watch and monitor in turns between the current channel and Channel 16.

Tri watch: Watch and monitor in turns among the current channel, Channel 16 and CALL Channel.

1. Enter " **Scdu** " menu item to select Watch, exit menu mode to start Dual Watch or Tri Watch.

- "DUAL" flashes during Dual Watch; "TRI" flashes during Tri watch.
- A "BEEP" sound emits when signal is received on Channel 16.
- Tri Watch switches to Dual Watch when signal received on CALL Channel.

2. Press [MENU] key, or press [PTT]/ [C/16]/ [⏻] to stop watch and motoring.

◆ Vibration Water Draining Function

The Vibration Water Draining Function helps to drain the water away from the loudspeaker housing, which can prevent water ingress to affect the loudspeaker voice quality.

- When standby, press [MENU] key, then press [⏻] key to activate this function.
- A deep sound emits for 10 seconds to drain water. Any key operation is invalid when vibration water draining.

■ Menu Operation

Menu operation method as follows :

1. Press [MENU] key to enter menu mode. Press [▲]/[▼] key to select the desired menu item.
2. Press [MENU] key to enter setting status. Press [▲]/[▼] key to select the desired setting.
3. Press [C/16] key to exit menu mode.

Display	Items	Options
bEEP	Beep Tone	of (OFF) /on (ON)
U IC	Channel Group Selection	USA/INT/CAN/WX
S_cdu	Function Selection	Of/SCAN/DUAL
ALrt	Weather Alert	of (OFF) /on (ON)
Pri o	Priority Scan	of (OFF) /on (ON)
S_t.	Scan Resume Timer	of (OFF) /on (ON)
dt	Dual/Tri-Watch	d- (Dual Watch) /t- (Tri Watch)
L. 9H	Backlight Level	of (OFF) /1/2/3
Lcdc	LCD Contrast	1/2/3/4
[H_n	Channel Display	3d (3 Digits) /4d (4 Digits)
P_SA	Auto Power Save	of (OFF) /on (ON)
S9LS	Monitor Function	Pu (Push) /Ho (Hold)

■ Main Technical Specifications

	Items	Index
General Specifications	Frequency Range	TX:156.000-162.000MHz RX:156.000-163.275MHz
	Modulation Mode	FM (16K0F3E)
	Frequency Interval	25kHz
	NiMH Batteries	DC1.2V×5, 850mAh(AAA)
	Frequency Stability	±2.5ppm
	Operating Temperature	- 20°C ~ + 60°C
	Waterproof Level	IP67 (1 Meter Depth of Water for 30 Minutes)
	Dimensions (W×H×D)	63mm×119mm×35mm
	Weight (With Batteries)	136g
Transmitter Specifications	Output Power	3W/1W
	Output Current	≤1.3A/0.8A
	Max. Frequency Deviation	±5kHz
	Spurious Emission	≤0.25μW
	Adjacent Channel Power	≥65dB
	Transmit Audio Distortion	≤5%
Receiver Specifications	Receive Sensitivity	≤0.2μV
	Signal-to-Noise Ratio	≥40dB
	Adjacent Channel Selectivity	≥65dB
	Spurious Response Immunity	≥70dB
	Intermodulation Rejection	≥68dB
	Audio Output Power	≥0.6W