

KSU7

operation instructions

USER'S MANUAL



Professional wireless intercom

PROFESSIONAL FM TRANSCEIVER

Foreword

Thank you for purchasing this company's marine transceiver. You will find the professional and human-oriented design of the transceiver during use. Read all instructions carefully and completely before using the transceiver. It is a powerful marine radio designed in accordance with IMO (International Maritime Organization) resolutions. With advanced waterproof technology, the transceiver has excellent waterproof, floating, and flashing functions.

CAUTION

- NEVER connect the transceiver to an AC outlet, as this may pose a fire hazard or result in electric shock.
- DO NOT use or place the transceiver in direct sunlight or in areas with temperatures below -15°C or above +55°C.
- KEEP the transceiver at least 1 meter away from your vessel's magnetic navigation compass.
- BE CAREFUL: The transceiver meets IP-67 requirements for waterproof protection. However, once the transceiver has been dropped, waterproof protection cannot be guaranteed due to possible damage to the transceiver's case or the waterproof seal.
- MAKE SURE the flexible antenna and battery cover are securely attached to the transceiver, and that the antenna and battery cover are dry before attachment. Exposing the inside of the transceiver to water will result in serious damage to the transceiver.

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Preparation

1. Supplied Accessories

Items	Qty
Antenna	1
Battery Pack	1
Adaptor	1
Belt Clip	1
Wrist Strap	1
User Manual	1

2. Charging the Battery Pack

1. Connect the adaptor to the AC power.
2. Rotate the jack at the top of the transceiver to connect it to the adaptor and start charging. The LCD will display "CHG" and "[]" to indicate charging.
3. When the battery is fully charged, the LCD will display "FL", and you should unplug the adaptor.
.NOTE: If the battery pack is not inserted into the transceiver, the LCD will display "Er".

3. Battery Pack Installation

- **Inserting the Battery Pack:** Place the battery into the transceiver so that it is flat, then securely attach the battery cover. Push the cover until the latch returns to the locked position.
- **Removing the Battery Pack:** Slide the latch and lift the battery cover to remove it, then take out the battery pack.

4. Flexible Antenna

1. Connect the supplied flexible antenna to the antenna connector and rotate it clockwise.
2. To remove it, rotate it counterclockwise.

5. Belt Clip

Attach the belt clip to or detach it from the transceiver.

Panel Description

Button Functions

1. **PTT**: Press and hold to transmit; release to receive.
2. **CH 16/Call CH**:
 - Short press to select Channel 16.
 - Long press for 1 second to select the call channel (factory default: Channel 9).
 - When the call channel is selected, long press for 3 seconds to enter the call channel programming mode.
 - In set mode, short press to return to normal operation mode.
3. **FAV/TAG**:
 - Short press to sequentially select favorite channels while ignoring untagged channels in the channel group.
 - Long press for 1 second to set or clear the TAG for the displayed channel.
 - While holding, turn on the power to clear or set all TAG channels in the selected channel group.
4. **SCAN/DUAL**:
 - Short press to start or stop normal/priority scan.
 - Long press for 1 second to enter Dual/Tri-watch mode.
 - Long press this key and the HI/LO key for 1 second to activate the Vibration Water Draining function.
5. **HI/LO/ Lock Key**:
 - Short press to select high or low output power.
 - Long press for 1 second to turn the lock function ON or OFF.
6. **POWER [U]**: Long press to turn the power ON or OFF.
7. **VOL./SQL/MONI**:
 - Long press for 1 second to activate the monitor function.

- Short press to enter volume adjustment mode or squelch adjustment mode.
- While holding this key, long press the [U] key to turn on the power and enter set mode.

8. **[△]/[▽] UP/DOWN**: Adjust the operating channel, set values, or scan direction.
9. **[CH]**: Long press for 1 second to select a channel group (USA/International/Canada); short press to return to the previous channel.
10. **ANTENNA CONNECTOR**: Connect the supplied antenna here.
11. **[DC 6V]**: Connect the adaptor or optional cable here (cover the DC jack with a cap when not in use to prevent water ingress).

LCD Icon Description

Icon	Description
TX	Transmit indicator (appears while transmitting)
LOW	Low power indicator (illuminates when low power is selected; blinks when forced to low power due to high temperature or low voltage)
BUSY	Appears when receiving a signal or when the squelch opens (blinks while monitoring)
TAG	Appears when a TAG channel is selected
CALL	Appears when the call channel is selected
CHG	Appears while the radio is charging
SC	Blinks while scanning
O	Appears when the lock function is activated
DW/TW	Appears when in Dual/Tri-watch mode

Basic Operations

Power On/Off

- Long press the POWER [U] key for 1 second to turn the transceiver ON or OFF.

Volume Adjustment

1. Press the VOL./SQL key to enter volume adjustment mode. Use [▲]/[▼] to adjust the volume (31 levels; automatically exits after 5 seconds of inactivity).

Squelch Adjustment

1. Press the VOL./SQL key twice to enter squelch adjustment mode. Use [▲]/[▼] to adjust the squelch level (0–10, where 0 is fully open and 10 is the strongest squelch).

Receiving and Transmitting

- **Receiving:** Adjust the volume and squelch. The "BUSY" indicator will appear, and you will hear sound from the speaker when a signal is received (power save mode activates after 5 seconds of no signal).
- **Transmitting:** Select the power level (low for short range, high for long range).

Press and hold PTT

to transmit (Channel 70 cannot transmit).

Channel Selection

- Short press [CH] to switch between normal channels; long press [CH] to switch between channel groups (USA/International/Canada).

Scan and Watch Functions

Scan Types

- **Normal Scan:** Sequentially searches all TAG channels (excluding Channel 16 unless tagged).
- **Priority Scan:** Searches TAG channels while monitoring Channel 16 (pauses scanning when a signal is detected on Channel 16).

Dual/Tri-watch Mode

- **Dual-watch (DW):** Monitors the current channel and Channel 16 simultaneously.
- **Tri-watch (TW):** Monitors the current channel, Channel 16, and the call channel simultaneously.

Set Mode Programming

Entering Set Mode

While the transceiver is off, long press the VOL./SQL key and turn on the power. Release when "Bp" appears on the LCD. Use the VOL./SQL key to select settings and [▲]/[▼] to adjust values. Press [16/C] to exit.

Main Settings

- **Beep Tone Function:** Enable or disable key beeps.
- **Weather Alert:** Triggers an alarm when important weather information is received ("WXALT" icon blinks).
- **Power Save Function:** Automatically reduces power consumption after 5 seconds of inactivity.
- **LCD Contrast Setting:** Adjust screen contrast (high/low).

VHF Marine Channel List (Partial Examples)

Channel Group	Channel Number	Transmit Frequency (MHz)	Receive Frequency (MHz)
USA	1	156.050	156.050
International	16	156.800	156.800
Canada	9	156.450	156.450