

HT649 GMDSS Survival Craft

Quick Start User Guide



0063



0558

INTRODUCTION

The HT649 GMDSS is a MED certified survival craft radio that carries the essential Wheel Mark logo. It's designed to function in the most extreme and harshest of environments and meets the strict environmental requirements for GMDSS radios.

To meet your exact requirements the radio may have been customised by your Entel dealer. These features will be explained in a separate guide issued by the dealer.

PACKING LIST

PACKAGE 1

HT649 VHF radio

Primary battery for Emergency use only

Spring loaded belt clip

High efficiency antenna

Lanyard

Quick start user guide

PACKAGE 2 AS PACKAGE 1 PLUS

Li-ion rechargeable battery pack

Drop in charger

Bulkhead screw spacer kit

Attaching and removing accessories

1. To attach an accessory, remove the accessory cover by unscrewing the locking screw anti-clockwise (leave the cover attached or store in a safe place).
2. Plug the accessory into the socket, then carefully tighten the locking screw clockwise until finger tight (do not overtighten or use any implement)
3. To remove an accessory, unscrew the locking screw of the accessory by hand in an anti-clockwise direction. Ensure you re-fit the accessory socket cover (the radio is not submersible without the socket covered).



BATTERY INFORMATION

Primary battery pack - CLB750G (Yellow)

1. This is a non-rechargeable, single use Lithium battery
2. The battery is supplied with a security seal that must only be removed before use
3. An expiry date is printed on the battery. Regularly check the date of your batteries and replace as required. Immediately, and safely, dispose of any out-of-date batteries.

Charging the CNB750E secondary battery pack (Black)

1. Connect the AC adaptor to the charger pod and plug in
2. Turn the radio off and insert the battery pack into the charger pod, either with or without the radio attached. The charger LED status light changes to red and charging begins
3. When charging is complete, the charger status LED changes from red to green (a fully discharged battery pack will take approximately 6 hours to recharge)

CAUTION

BATTERY PACK PRECAUTIONS

- Do not recharge the battery pack if it is already fully charged. Doing so may reduce the life of the battery pack
- After charging is complete, remove the battery from the charger
- Please ensure that the radio is turned off before placing it in the charger and never switch a radio on whilst in the charger
- Only use Entel branded battery packs and chargers
- Do not short the battery terminals or dispose of the battery in a fire
- Do not charge the radio and/or battery pack if they are wet

DANGER

DO NOT DISASSEMBLE OR MODIFY THE BATTERY IN ANY WAY!

Your Entel battery pack incorporates a safety circuit to avoid danger, if the safety circuit is damaged or bypassed, or the battery cells are damaged directly, they may generate extreme heat, smoke, rupture and emit flames.

REPAIR & MAINTENANCE

Repair and maintenance of this product can only be carried out by Entel. Any damage to the anti-tamper seal will invalidate the product approval. Should you have any difficulties in operating this product please contact your Entel Dealer for support.



CONTROLS & INDICATORS



1. On/Off button. Press and hold to turn the radio on or off

2. **MEM Button:** Adds / removes the currently selected channel to / from the scan list.

SCAN Button: Starts/Stops scanning the channels added to the scan list.

16 Button: Toggles between the currently selected channel and channel 16.

MON Button: Latches squelch open

3. Channel up / down buttons

4. Push To Talk (PTT) button. Press to speak and release to listen.

5. Non-programmable button

6. Short press toggles LCD and keypad backlight on/off. Long press toggles keypad lock on/off

7. Non-programmable button

8. LED Indicator

Red steady - Transmitting

Red flashing slowly - Battery needs recharging

Green steady - Receiving

Amber pulsing – In standby mode

9. Volume Control

10. Microphone

The product shall only be put into service after it has been professionally configured by a specialist radio communications dealer for the EU member state or geographical area it is intended to be operated within.

Intended country of use

	AT	BE	BG	CH	CY	CZ	DE	DK	EE
	ES	FI	FR	EL	HR	HU	IE	IS	IT
	LI	LT	LU	LV	MT	NL	NO	PL	PT
	RO	SE	SI	SK	TR	UK(NI)			

PREPARING YOUR RADIO FOR USE

Attaching / removing the antenna



1. To attach, carefully align the antenna with the socket. Screw in the antenna and clockwise (taking care not to cross the thread) until it is seated firmly with the accessory cover's rubber ring between the antenna and the top of the radio. (A)
2. To remove, unscrew the antenna anti-clockwise. (B)

Attaching / removing the battery pack



1. To attach, locate the pegs on the bottom of the battery into the slots on the radio and press the top of the battery against the radio. Secure battery by tightening the screw clockwise. Secure battery by tightening the screw clockwise by hand. (Do not use any implement or overtighten). (C)
2. To remove, unscrew the locking screw anti-clockwise and pull the battery away from the top of the radio. (D)

SWITCHING ON, RECEPTION AND SWITCHING OFF

1. To switch on, press and hold the on/off control (1) on the front of the radio.
2. When the radio has passed its diagnostic tests, it will emit a fanfare tone.
3. The radio will enter standby mode. This is indicated by the LED Amber flashing once every 5 seconds, signalling that the radio is ready for use.
4. Adjust the volume control to select the desired volume level.
5. Using the channel buttons, ensure you have the correct channel selected.
6. When receiving a valid signal, the LED will illuminate steady green and audio will be emitted from the radio's speaker or audio accessory (if attached)
7. When finished using the radio, switch off by pressing and holding the on/off button (1) until the radio beeps and the LED/LCD is extinguished.

TRANSMITTING

1. Perform steps 1 through to 5 of Switching On, Reception and Switching Off.
2. Before transmitting, monitor the channel and make sure it is clear.
3. When receiving a signal, wait until the signal stops before transmitting. The radio cannot transmit and receive simultaneously.
4. Press the PTT (Push To Talk) button (4) to begin your transmission. To confirm transmission the LED illuminates red.
5. For best transmitted speech quality you must talk directly into the radio's microphone (10) at around 4cm between your mouth and the radio.
6. Please note: if you talk into the top of the radio or with your mouth further away, you will transmit poor quality speech
7. When the transmission is finished release the PTT button.



DECLARATION OF CONFORMITY

We Entel UK Limited of:

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This declaration of conformity is issued under the sole responsibility of the manufacturer, in accordance with European Council Directive 2014/90/EU, Implementing Regulation 2024/1975, and the Merchant Shipping (Marine Equipment) Regulations 2016.

EN 300 225: December, 2015 v1.5.1
EN 301 843-2: November, 2017 v2.2.1
EN 60945: October, 2002, Edition 4
IEC 60945/Corrigendum 1: April, 2008, Edition 4
IMO Resolution A.694(17): 1991
IMO Resolution A.809(19): 1995
ITU-R M.489-2: October, 1995
MSC Resolution 149(77): June, 2003
MSC Resolution 36(63): May, 1994
MSC Resolution 515(105): April, 2022
MSC Resolution 97(73): December, 2000

Marine Electronics Directive (MED)

Compliance is being ascertained by the following certificates:

EC type-examination certificate (Module-B)

No. 232120001 has been issued

Product category: MED/5.17

Product quality system certificate (Module-D)

Certificate No. P133 MER

Kiwa Nederland B.V.

Notified Body No. 0063

The Merchant Shipping (Marine Equipment) Regulation 2016 (MER)

Compliance is being ascertained by the following certificates:

UK type-examination certificate (Module-B)

No. 232380005 has been issued

Item number and designation: UK/5.17 Portable

survival craft two-way VHF radiotelephone apparatus

Product quality system certificate (Module-D)

Certificate No. P133 MER

UK Approved Body Kiwa Ltd.

Approved Body No. 0558

Frequency Range TX 155MHz-161.450MHz

RX 155MHz-163.425MHz

Power Output <1W ERP

Name: Mike Jamieson

Position: Quality Manager

Date: 10th Jan. 2025

Signed: 

