



EC type-examination certificate
(Module B)

232120001/AA/02

Item and designation: MED/5.17 Portable survival craft
two-way VHF radiotelephone apparatus

Issued 04 December 2024

Date of expiration of validity 08 May 2028

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This certificate has THREE Annexes

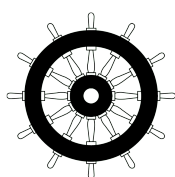
In compliance with the procedure specified in the **Marine Equipment Scheme** RD_040, Kiwa Nederland B.V. declares as designated Notified Body 0063 for the Marine Equipment Directive, that the stated product complies with Directive 2014/90/EU and Implementing Regulation (EU) 2024/1975, based on the applicable international instruments and test standards as listed in Annex 2 of this certificate.

Product description:
Trademark:
Type designation:
Hardware / Software:

Portable Survival craft VHF radio telephone
Entel
HT649
V6.0 / V3.2.0.0

Manufacturer:
Address:
City:
Country:

Entel UK Limited
320 Centennial Avenue, Centennial Park, Elstree
WD6 3TJ Borehamwood
UNITED KINGDOM



0063

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[https://www.kiwa.com/nl/en/markets/
radio-wireless-and-electrical-
equipment/](https://www.kiwa.com/nl/en/markets/radio-wireless-and-electrical-equipment/)

Chamber of commerce
08090048



General conditions

- This EC type-examination certificate is limited to the Marine Equipment Directive.
- Each product to which this certificate relates shall be provided with The Mark of Conformity. The Mark of Conformity consists of symbol in the form of a wheel followed by the identification number of the responsible Notified Body for Module D, E, F or G, and by the last two digits of the number of the year in which the mark is affixed.
The Mark of Conformity may only be affixed to the type approved product and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.
- The holder of this certificate has drawn up a Declaration of Conformity to type with Directive 2014/90/EU and Implementing Regulations, declaring that the product(s) described in this EC type-examination certificate, satisfy the requirements that apply to them.
- The validity of this EC type-examination certificate is limited to products, which are equal to the one(s) assessed for this EC type-examination.
- Each product shall be identified by means of type, batch and/or serial numbers and the name of the manufacturer and/or importer.
- If the equipment is to be modified, Kiwa shall be notified immediately. Depending on the modifications, Kiwa may have additional examinations carried out in consultation with the applicant.
- Enforcement of a new amending directive or new Implementing Regulation may void the validity of this EC type-examination certificate regarding (re)placement of the product onboard ships.

Remarks and observations

The following conditions are applicable:

AA/01: adding IMO resolution MSC.515(105)

AA/02: Transfer to implementing act (EU) 2024/1975.

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The HT649 may only be utilized for distress situation communication because only primary batterypacks are available.

Primary battery packs are CLB750G, CLB750M or CLB750L.

They bear a serial number suffix depending on the utilized celltype and capacity; earlier marketed packs bear no suffix; these packs are identical to packs with suffix C4.

suffix C4 = 2000 mAh (Li-MnO₂).

suffix C5 = 2200 mAh (Li-MnO₂).

suffix C6 = 3000 mAh (Li-FeS₃).

suffix C7 = 3400 mAh (Li-FeS₂)

Documentation lodged for this EC type-examination certificate

Test Reports:

- Telefication B.V.: 20071457300-rev 5.0, 19 October 2009
- R.N. Electronics Ltd.: 05-383/3674/1/08, 06 June 2008
- R.N. Electronics Ltd.: 04-415A/4172/1/10, 19 May 2010
- R.N. Electronics Ltd.: 04-417A/4172/1/10, 19 May 2010
- R.N. Electronics Ltd.: 05-8813-1-16 Issue 01, 27 May 2016
- R.N. Electronics Ltd.: 05-8813-2-16 Issue 01, 20 May 2016
- R.N. Electronics Ltd.: 01-8968-1-17 Issue 01, 08 February 2017
- R.N. Electronics Ltd.: 01-8968-3-17 Issue 01, 17 January 2017
- R.N. Electronics Ltd.: 06-10700-1-18 Issue 01, 28 June 2018
- R.N. Electronics Ltd.: 12-13941-2-22 Issue 01, 22 December 2022
- R.N. Electronics Ltd.: 02-13941-1-23 Issue 01, 01 March 2023

Product Documentation:

- Assembly drawings
- Bill of materials
- Block diagram
- Electrical diagrams
- Internal photos
- External photos
- Manual
- Label and label placement
- Test setup photos
- Risk assessment

International Instruments and test standards

The product is compliant with:

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	

Technical features and characteristics

The product includes the following features and characteristics:

VHF equipment

- Operating frequency range: TX: 155.0 - 161.45 MHz; RX: 155.0 - 163.425 MHz
- Modulation method(s): 16K0G3E
- Maximum output power: 1W rated
- Primary battery: 2.0 Ah, 2.2 Ah, 3.0 Ah, 3.4 Ah; type designations CLB750G, CLB750M, CLB750L; Temperature range: -20°C to +55°C; Channel separation: 25 kHz

The product as described in this certificate includes the following type designations:

- | | |
|------------------------|---|
| - Product description: | Portable Survival craft VHF radio telephone |
| - Trademark: | Entel |
| - Type designation: | HT649 |
| - Hardware version: | V6.0 |
| - Software version: | V3.2.0.0 |