CERTIFICAT ◆ CERTIFICADO ◆ СЕРТИФИКАТ ◆ 認證證書 ◆ CERTIFICATE ◆ ZERTIFIKAT

DANAK
PROD Reg.No. 7035
Member of EA MLA

TÜV SÜD
Danmark

Marine Equipment Directive
EU Type Examination Module B Certificate

This is to certify that TÜV SÜD DANMARK ApS did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Marine Equipment Directive (2014/90/EU) requirements, under the following Implementing Regulation for the listed types of equipment

Implementing Regulation	**(EU)2022/1157**
Certificate Holder and Manufacturer	**Icom Inc.** **1-1-32 Kamiminami** **Hirano-ku** **Osaka 547-0003** **Japan**
EC Representative	**Icom (Europe) GmbH** **Auf der Krautweide 24** **65812 Bad Soden am Taunus** **Germany**
Product(s)	**GM800**
Product Sector	**Radiocommunication Equipment**
Product Type	**MED/5.14 MF/HF radio capable of transmitting and receiving DSC and radiotelephony (excludes NBDP)**

and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 11 September 2023 (Michael Bower) Expiry Date: 10 September 2028

This certificate has been issued in accordance with the TÜV SÜD Testing and Certification Regulations and constitutes page 1 of the combined Certificate and Annex.
The Conditions for the validity of this certificate are listed in the Annex.
For further details, related to this certification please contact BABT@tuvsud.com

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Annex to Marine Equipment Directive Module B Type Examination Certificate

1 Equipment Description

MF/HF Marine Transceiver

1.1 Models

1.1.1 System Components

Model	Description
GM800	Display and Transceiver Unit
AT-141	Antenna Tuner
HS-98	Handset

1.1.2 Optional Components

Model	Description
SP-24E	Speaker
HM-214H	Microphone

1.2 Software Note 1

Identity	Description
GM800 Firmware	Version 2.000

2 Assessed Requirements

2.1 Implementing Regulation (EU)2022/1157

2.2 Compliance Requirements for MED/5.14 Note 2, 3 & 4

IMO Resolutions	International Testing Standards	
IMO Res. A.694(17) IMO Res. A.804(19) IMO Res. A.806(19) IMO COMSAR Circ.32 IMO MSC.1/Circ.1460 ITU-R M.476-5 (10/95) ITU-R M.492-6 (10/95) ITU-R M.493-15 (01/19) ITU-R M.541-10 (10/15) ITU-R M.625-4 (03/12) ITU-R M.1173-1 (03/12)	EN 60945 (2002) incl. IEC 60945 Corr.1 (2008)	Maritime navigation and radiocommunication equipment and systems — General requirements
	EN 61162-1 (2016)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 1: Single talker and multiple listeners
	ETSI EN 300 338-1 V1.6.1 (2021-05)	Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service; Part 1: Common requirements
	ETSI EN 300 338-2 V1.5.1 (2020-06)	Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service; Part 2: Class A/B DSC
	ETSI EN 300 373-1 V1.4.1 (2013-09)	Maritime mobile transmitters and receivers for use in the MF and HF bands
	ETSI EN 301 843-5 V2.2.1 (2017-11)	Technical characteristics and methods of measurement for shipborne watchkeeping receivers for reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and VHF bands

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IMO Resolutions	International Testing Standards	
	IEC 62923-1 (2018)	Maritime navigation and radiocommunication equipment and systems – Bridge alert management – Part 1: Operational and performance requirements
	IEC 62923-2 (2018)	Maritime navigation and radiocommunication equipment and systems – Bridge alert management – Part 2: Alert and cluster identifiers and other additional features
	IMO MSC/Circ.862	Clarifications Of Certain Requirements In IMO Performance Standards For GMDSS Equipment

3 Technical Documentation

3.1 Declaration of Conformity

GM800 #21 DoC	Modified	2023-07-24

3.2 User Guide

MF/HF Marine Transceiver GM800 Full Manual	Issued	2023-02-15
HF Automatic Tuner AT-141 Instruction Manual	Issued	2023-02-03

3.3 Test Reports

3.3.1 EN 60945 (2002) incl. IEC 60945 Corr.1 (2008)

75934114 Report 05 Issue 1	Issued	2017-12-14
JPX-TR-16145-1	Issued	2018-02-22
9982-R01	Issued	2017-02-10
JPX-TR-23074-0	Issued	2023-05-09

3.3.2 ETSI EN 300 338-1 V1.6.1 (2021-05)

75934114 Report 03 Issue 2	Issued	2018-02-22
75934114 Report 01 Issue 2	Issued	2018-02-21
GM800 Update Document Issue 01	Issued	2019-12-17
GM800 Update Document Issue 03	Issued	2023-03-10
75957691 Report 02 Issue 01	Issued	2023-07-19

3.3.3 ETSI EN 300 338-2 V1.5.1 (2020-06)

75934114 Report 04 Issue 2	Issued	2017-12-01
GM800 Update Document Issue 01	Issued	2019-12-17

3.3.4 ETSI EN 300 373-1 V1.4.1 (2013-09)

75934114 Report 02 Issue 2	Issued	2018-02-21
75957691 Report 01 Issue 02	Issued	2023-07-23

3.3.5 ETSI EN 301 843-5 V2.2.1 (2017-11)

JPX-TR-16145-1	Issued	2018-02-22
Testing coverage declaration_180126	Dated	2018-01-26
JPX-TR-23075-0	Issued	2023-05-09
GM800 Update Document Issue 03	Issued	2023-03-10

3.3.6 EN 61162-1 (2016)

75934114 Report 06 Issue 1	Issued	2017-11-28
GM800 Update Document Issue 01	Issued	2019-12-17

3.3.7 IEC 62923-1 (2018) & IEC 62923-2 (2018)

75952602 Report 03 Issue 2	Issued	2022-03-29
75952602 Report 04 Issue 1	Issued	2022-02-15

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3.4 Build Status

3.4.1 Hardware

GM800 #21 Schematic.pdf	Issued	2023-03-10
AT-141 #65 Schematic.pdf	Issued	2023-03-10
HM-214H Schematic.pdf	Issued	2017-01-06
GM800 #21 Parts List.pdf	Modified	2023-02-14
AT-141 #65 Parts List.pdf	Modified	2023-02-14
HM-214H Parts List.pdf	Modified	2022-03-04

3.5 Notes

Note 1 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the TÜV SÜD Testing and Certification Regulations.

Note 2 The GM800 does not support optional NBDP operation as per IMO Res. A.804(19).

Note 3 The GM800 is capable of operating within the 415 kHz – 526.5 kHz band however compliance has not been assessed.

Note 4 The product(s) listed meet(s) the requirements of IEC 62923-1 for EUT function type P.

4 Conditions of Validity

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with TÜV SÜD DANMARK ApS or a person appointed by TÜV SÜD DANMARK ApS to perform that role.

During the period of validity of this certificate the applicable regulations (international conventions and relevant resolutions and circulars of the IMO) and testing standards of the Commission Implementing Regulation may change, therefore the product conformity may need to be re-assessed by TÜV SÜD DANMARK ApS.

The Mark of Conformity may only be affixed to the above type approved equipment 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.

Date: 11/09/2023

Signature: M. Bower

(Michael Bower)

On behalf of TÜV SÜD DANMARK ApS