



Danmark

Marine Equipment Directive EC 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)2024/1975
Certificate Holder and Manufacturer	Japan Radio Co., Ltd. Nakano Central Park East 4-10-1, Nakano Nakano-ku Tokyo, 164-0001 Japan
EC Representative	JRC Dublin 77 Camden Street Lower St Kevin's Dublin 2 D02 XE80 Ireland
Product(s)	JCX-161
Product Sector	Navigation equipment
Product Type	MED/4.57 Bridge Navigational Watch Alarm System (BNWAS)

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

Valid from: 19 May 2025

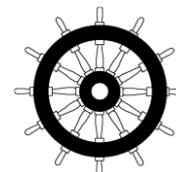
(M J Hardy)

Expiry Date: 05 February 2028

This certificate has been issued in accordance with the TÜV SÜD Testing, Certification Validation and Verification 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

**2443**

Issued by TÜV SÜD DANMARK ApS under document number: DK-MED000047 Issue 09

Page 1 of 5

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Danmark

Annex to Marine Equipment Directive Module B Type Examination Certificate

1 Equipment Description

Bridge Navigational Watch Alarm System (BNWAS)

1.1 Models

Model
JCX-161 <small>Note 1,2,3</small>

1.1.1 System Components

Model	Description
NCK-175	Control Unit
NWZ-4650	LCD Display Unit
NCJ-895 <small>Note 4</small>	Reset Button Unit
NVS-785 <small>Note 5</small>	Buzzer Unit

1.1.2 Optional Components

Model	Description
NCD-2257	Warning Lamp Unit
NCJ-896 <small>Note 4</small>	Waterproof Reset Button
NYG-5	Motion Sensor Unit

1.2 Software Note 6

Identity	Description
V1.01	NCK-175
R01.20	NWZ-4650

2 Specified Requirements

2.1 Implementing Regulation (EU)2024/1975 MED/4.57 Row 2 of 2 Note 7

Type approval requirements	Carriage and Performance Requirements
SOLAS 74 Reg. V/18	SOLAS 74 Reg. V/19 IMO Res. A.694(17) IMO Res. MSC.128(75) IMO Res. MSC.191(79) IMO Res. MSC.302(87) IMO MSC.1/Circ.1474
Assessed Testing Standards	
IEC 60945:2002 incl. IEC 60945 Corr. 1:2008	IEC 61162-1:2016
IEC 62616:2010 incl. IEC 62616 Corr. 1:2012	IEC 62288 Ed. 3.0:2021
IEC 62923-1:2018	IEC 62923-2:2018



Danmark

Annex to Marine Equipment Directive Module B Type Examination Certificate

3 Technical Documentation

3.1 Declaration of Conformity

151i) MED DoC JCX-161 Modified 2025-05-07

3.2 User Guide

JCX-161 Instruction Manual 7ZPNA4317C Edition 4 Modified 2025-05-16
JCX-161 Installation Manual 7ZPNA4321C Edition 4 Dated 2021-09-22
JCX-161 Service Manual 7ZPNA4323C Edition 4 Dated 2021-09-22

3.3 Test Reports

3.3.1 IEC 60945:2002 inc. Corr.1:2008

EMC13011 Dated 2013-02-01
2A12051 Dated 2013-02-05
12-444(E) Dated 2013-01-24
12-445(E) Dated 2013-01-24
12-443(E) Dated 2013-01-24
12-402(E) Dated 2013-01-24
NA13ZZ0327A Dated 2013-03-27
bb. Materials Corrosion Report Dated 2013-03-27
75921110 Report 02 Issue 2 Dated 2013-04-23
NA18AS0131A Dated 2018-01-31

3.3.2 IEC 62616:2010 inc. Corr. 1:2012

75921110 Report 01 Issue 2 Dated 2013-03-18
2A12051 Dated 2013-02-05
12-444(E) Dated 2013-01-24

3.3.3 IEC 62288:2021

75921110 Report 02 Issue 2 Dated 2013-04-23
IEC62288_Ed1_vs_Ed2_20160407_v2 Modified 2016-04-07
NA16ZZ0523C Dated 2016-05-23
NA25ZZ0424B Dated 2025-04-25

3.3.4 IEC 61162-1:2016

NA19AS0527A Dated 2019-06-14
NA18AS0201B Dated 2018-02-14
NA13AS0221D Dated 2013-02-21

3.3.5 IEC 62923-1:2018 and IEC 62923-2:2018

NA21ZZ0729A Dated 2021-08-04



Danmark

Annex to Marine Equipment Directive Module B Type Examination Certificate

3.4 Build Status

3.4.1 Hardware

NCK-175_parts_list_230107,	Dated	2023-01-07
NWZ-4650_display_unit_parts_list_230107	Dated	2023-01-07
other_units_parts_list_230107	Dated	2023-01-07
CB155E201B	Dated	2012-07-24
CB154E201C	Dated	2012-07-24
CC101E201C	Dated	2012-07-24
ED01-CMJ-567	Dated	2012-08-06
ED02-CMP-490	Dated	2012-08-06
CM164E201A	Dated	2012-07-24
CC102E201A	Dated	2012-07-24
CC106E201A	Dated	2012-07-24
CH108E201A	Dated	2012-07-24
CK015E201A	Dated	2012-07-24

3.5 Notes

- Note 1 This equipment is a Bridge Navigational Watch Alarm System using the component parts listed above and capable of versatile configuration to suit a ship's operating plan in respect of IMO Resolution MSC.128(75). All items have been tested and are recognised as compliant with the relevant requirements of IEC 60945:2002.
- Note 2 In accordance with IMO MSC.1/Circ.1474 the Automatic mode is not suitable for use on a ship conforming with regulation SOLAS V/19.2.2.3 which requires the BNWAS to be in operation whenever the ship is underway at sea and therefore the Automatic mode shall not be used.
- Note 3 It is a requirement that the emergency power supply installed for this equipment must have sufficient capacity to provide power for six hours after the mains supply is interrupted.
- Note 4 Up to 6 Reset Buttons can be connected to suit the number of stations selected on the Bridge for reset points. The exact number used would be in accordance with the ships operating plan agreed with the Flag Administration.
- Note 5 Up to 23 Audible Alarm Buzzers can be installed across the Bridge Navigational Watch Alarm System. Audible Alarm Buzzers can be installed in the Officers' Quarters for the second stage alert and further units can be installed in Crew Quarters/Public Areas for the third stage alert.
- Note 6 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the TÜV SÜD Testing, Certification, Validation and Verification Regulations.
- Note 7 The JCX-161 meets the requirements of IEC 62923-1 for EUT function type P.

4 U.S. Coast Guard Number

This product has been assigned U.S. Coast Guard Module B number

165.142/EC2443

To note type approval to Module B only as it pertains to obtaining US Coastguard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", Decision No. 1/2023 signed May 26th, 2023.

Annex to Marine Equipment Directive Module B Type Examination Certificate



Danmark

5 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.

Signature:

M Hardy
(M J Hardy)

Date:

19/05/2025

On behalf of TÜV SÜD DANMARK ApS