



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. 4-10-1, Nakano Nakano Central Park East 3F Nakano-Ku Tokyo 164-0001 Japan
EC Representative	JRC Dublin 77 Camden Street Lower St Kevin's Dublin 2 DO2 XE80 Ireland
Product(s)	JAN-9201
Product Sector	Navigation Equipment
Product Type	MED/4.30 Electronic Chart Display and Information System (ECDIS) with backup, and Raster Chart Display System (RCDS)

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

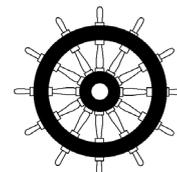
Valid from: 18th August 2025 (Andy Little)

Expiry Date: 10 June 2029

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**



Danmark

Annex to Marine Equipment Directive Module B Type Examination Certificate

1 Equipment Description

Shipborne Electronic Chart Display and Information System (ECDIS).

1.1 Models

Model
JAN-9201 ^{Note 1}

1.1.1 System Components

Model	Description
NWZ-208 or NWZ-233 ^{Note 2}	26" or 27" Colour LCD Monitor
NDC-1590 or NDC-1590A	Central Control Unit
NCE-5605	Trackball Operation Unit
NBD-913	Power Supply Unit

1.1.2 Optional Components

Model	Description
NCE-5625	Keyboard Operation Unit (OPU)
CWA-246 ^{Note 2}	26/27" Display Unit Mount Kit
CWB-1595 ^{Note 2}	26/27" Desktop Frame
CWB-1660 ^{Note 2}	26/27" Desktop Frame
CWB-1596	OPU Desktop Frame
NQE-1143 ^{Note 3}	Junction Box
AlphaScreen 46 (DV4624-002)	46" Colour LCD Monitor
AlphaScreen 26 (FDU2603W)	26" Colour LCD Monitor
AlphaScreen 27 (MDF2701W)	27" Colour LCD Monitor
NQA-2443 or NQA-2443A	Sensor LAN Switch Unit
HD19T27 JED-MA4-xxxx	19" Display
HD24T27 JED-MA4-xxxx	24" Display
HD27T27 JED-MA4-xxxx	27" Display
HD32T40 JED-MA4-xxxx	32" Display
HD43T40 JED-MA4-xxxx	43" Display

1.2 Software ^{Note 4}

Identity	Description
Application	01.60

Annex to Marine Equipment Directive Module B Type Examination Certificate



Danmark

2 Specified Requirements

2.1 Implementing Regulation 2024/1975 MED/4.30 Row 1 of 1 ^{Note 8}

Type approval requirements	Carriage and Performance Requirements
SOLAS 74 Reg. V/18 SOLAS 74 Reg. V/27 SOLAS 74 Reg. X/3 IMO Res. MSC.36(63)-(1994 HSC Code) 13 IMO Res. MSC.97(73)-(2000 HSC Code) 137(73)-(2000 HSC Code) 14	SOLAS 74 Reg. V/19 IMO Res. A.694(17) IMO Res. MSC.36(63)-(1994 HSC Code) 13 IMO Res. MSC.97(73)-(2000 HSC Code) 13 IMO Res. MSC.191(79) IMO Res. MSC.232(82) IMO Res. MSC.302(87) IMO MSC.1/Circ.1503. Rev.1
Assessed Testing Standards	
IEC 60945:2002 incl. IEC 60945 Corr. 1:2008	IEC 61162-1:2016
IEC 61162-2 Ed.1.0:1998-09	IEC 61162-450:2018
IEC 61174 Ed. 4.0: 2015	IEC 62288 Ed. 3.0:2021
IEC 62923-1:2018	IEC 62923-2:2018

3 Technical Documentation

3.1 Declaration of Conformity

157n) MED-DoC-JAN-7201 2024-1975

Modified 2025-03-31

3.2 User Guide

JAN-7201/9201 ECDIS Instruction Manual (Basic Operation), 7ZPNA4449P Apr 2025 Edition 17
 JAN-7201/9201 ECDIS Instruction Manual (Function), 7ZPNA4450M Feb 2025 Edition 14
 JAN-7201/9201 ECDIS Instruction Manual (Reference), 7ZPNA4451P Apr 2025 Edition 17
 Marine Radar Equipment/ECDIS/Conning Display Installation Manual 7ZPNA4466N Apr 2025 Edition 21

3.3 Test Reports

IEC 61174 (2015)	75924108 Report 01 Issue 2, 2014-02-27	75933710 Report 01 Issue 01, 2016-07-21
	Performance compliance testing PL4.0, 2016-06-30	75937370 Report 03 Issue 2, 2017-06-05
	DOC-AP-000061, 2024-08-08	75963591-01 Issue 01, 2025-04-07
	DOC210531-1, 2024-08-13	DOC209275-1, 2022-12-09
	DOC210598-1, 2024-08-29	DOC209447-1, 2023-01-03
	DOC210529-1, 2024-08-13	DOC209274-1, 2022-12-09
	DOC210595-1, 2025-02-09	DOC209454-1, 2023-01-05
	DOC210527-1, 2024-08-14	DOC210564-1, 2024-08-13
IEC 60945 (2002) inc. Corr. 1	DOC210591-1, 2024-08-29	75963690-01 Issue 01, 2025-06-05
	75923142 Report 03 Issue 2, 2014-01-21	WW-000001398, 2015-03-06
	75923142 Report 04 Issue 2, 2014-01-29	19-354E, 2019-11-12
	IEC60945.Corrosion.Test.Report, 2013-12-24	19-348E, 2019-11-12
	13-325(E), 2013-10-15	9065-15-49778-174, 2015-11-02
	Z071C-13420, 2013-12-11	FLI 12-14-053, 2014-07-03
	75924011 Report 01 Issue 1, 2014-04-11	F153910E1, 2015-12-10
	713047988, 2014-11-25 Salt Mist	FDS1904_FDU2603W Declaration Corrosion Sign, 2016-07-05
	69859-47988-2 Ed. 1, 2014-12-01	DPS-16-00034 Modified 2016-07-15
	69859-47988-1, 2014-11-28	DPS-16-00027, 2016-07-01
	BSH Cert No. 889, 2014-11-20	JPX-TR-19268-0, 2019-08-23
	DOC-AP-000071, 2024-09-13	400-240092-1, 2024-09-10
	LIC 12-23-119, 2023-09-06	DOC-AP-000073, 2024-09-27

Annex to Marine Equipment Directive Module B Type Examination Certificate



Danmark

Test Reports - continued

	23-131(E), 2023-06-26	24-455(E), 2024-12-25
	LIC 12-23-117, 2023-09-06	24-438(E), 2024-12-24
	LIC 12-23-118, 2023-09-06	24-164(E), 2024-08-22
	17-05-EAT-054-E00 2,017-05-17	CEBDLB-WTW-P24070081, 2024-09-06
	ME7D0801, 2018-04-11	240620002T, 2024-09-18
	170421001TR1, 2018-04-09	240905001T, 2024-09-18
	31607-2, 2024-12-04	CEBDLB-WTW-P23070246, 2023-08-25
	VS-TV-060502-01, 2017-05-07	20931 Rev1, 2017-02-10
	CEBDLB-WTW-P24070081, 2024-09-06	230911001T, 2024-02-05
	240620003T, 2024-09-06	210519001T, 2021-08-19
	DOC208309-1 Revision 08, 2025-07-09	-
IEC 62288 (2021)	75924108 Report 01 Issue 2, 2014-02-27	75928362 Report 02 Issue 1, 2015-02-17
	75924108 Report 02 Issue 1, 2014-02-25	DPS-16-00034 Modified 2016-07-15
	75924011 Report 01 Issue 1, 2014-04-11	F153910E1, 2015-12-10
	9065-15-49778-174, 2015-11-02	75937370 Report 03 Issue 1, 2017-06-01
	75933710 Report 01 Issue 01, 2016-07-21	Evaluation of LCD Monitor Rev 1.0, 2013-10-04
	DPS-16-00027, Modified 2016-07-01	75958884 Report 01, 2023-11-29
	DOC-AP-000061, 2024-08-08	75963591-01 Issue 01, 2025-04-07
	DOC206081-1, 2017-11-22	DOC209275-1, 2022-12-09
	DOC210531-1, 2024-08-13	DOC209273-1, 2022-12-09
	DOC210588-1, 2025-02-05	DOC209274-1, 2022-12-09
	DOC210529-1, 2024-08-13	DOC209419-1, 2022-12-07
	DOC206156-1, 2017-12-21	DOC209420-1, 2022-12-08
	DOC210527-1, 2024-08-14	DOC209421-1, 2022-12-07
	DOC209276-1, 2022-12-09	75963690-01 Issue 01, 2025-06-05
IEC 62923-1 (2018) IEC 62923-2 (2018)	NA21ZZ0212B, 2021-02-22	NA20AS1007B, 2020-12-08
IEC 61162 Series:	75924108 Report 01 Issue 2, 2014-02-27	NA19AS0417A, 2019-04-24
	75924011 Report 01 Issue 1, 2014-04-11	75923142 Report 03 Issue 2, 2014-01-21
	Declaration of conformity to IEC 61162-1/2, 2014-02-28	WW-000001056, 2014-05-16
	NA19AS0417B, 2019-04-24	NA21ZZ0212C, 2021-02-22
	75937370 Report 03 Issue 2, 2017-06-05	NA20AS1007A, 2020-10-23

3.4 Build Status

3.4.1 Hardware

Marine Radar Equipment/ECDIS/Conning Display Installation Manual 7ZPNA4466K	Modified	2019-11-05
Parts List:		
Parts List_Display Unit.xls	Dated	2013-12-06
06Parts List_Display Unit.xls	Dated	2017-07-12
NBD-913_PartsList.pdf	Dated	2013-08-29
S18-3743, 2018-10-26	Modified	2018-10-26
S18-3744, 2018-10-26	Modified	2018-10-26
NWZ-233 Build state	Modified	2025-04-09
DOC210617-1 HD 19T27 MMD - IEC 60945 & IACS E10 Statement_R03	Dated	2024-12-20
DOC210615-1 HD 24T27 MMD - IEC 60945 & IACS E10 Statement_R03	Dated	2024-12-20
DOC210612-1 HD 27T27 MMD - IEC 60945 & IACS E10 Statement_R03	Dated	2024-12-20
DOC210004-1 HD 32T40 MVD - IEC 60945 & IACS E10 Statement_R01	Dated	2023-10-06
DOC209665-1 HD 43T40 MVD - IEC 60945 & IACS E10 Statement_R04	Dated	2024-09-23



Danmark

Annex to Marine Equipment Directive Module B Type Examination Certificate

3.5 Notes

- Note 1 May form a back-up ECDIS (via Ethernet link) with second JAN-9201/JAN-7201 ECDIS running software as listed above.
JRC also declare that the JAN-9201 is compatible for use as a back-up ECDIS with the following JRC models; JAN-901B, JAN-701B, JAN-2000 ECDIS or JMR-7200, JMR-9200 and JMA-900B Chart Radar operating in ECDIS mode, subject to Administrations/Class approval of the Ship's Bridge Operations Plan.
- Note 2 NWZ-208 and NWZ-233 are flush mount Displays for console / panel mounting or can be mounted in a CWB-1595 Desktop Frame for Desktop use, CWB-1660 Desktop Frame for Desktop use or a CWA-246 Display Unit Mount Kit along with the NDC-1590(A) Central Control Unit as a Stand-alone Deckmount ECDIS.
- Note 3 The JAN-9201 is capable of providing a Radar Overlay Function when used with the optional Radar Interface Board (CQD-2273); this forms part of the NQE-1143 Junction Box.
- Note 4 This approval remains valid for equipment including subsequent minor software amendments (Maintenance No. 01.60.020 or later) which have been formally accepted in accordance with the TÜV SÜD Testing, Certification, Validation and Verification Regulations.
- Note 5 JRC declare the hardware/software forms a Multi-Function workstation. This means the operator may switch between Radar, Chart Radar, ECDIS and Conning Display (All share identical Hardware elements) as limited and controlled by a JRC supplied licence. The approval status conferred by this certificate only applies when the operation mode is set to ECDIS.
- Note 6 In respect of RCDS operation this Type Approval is valid for HCRF format RNC data only.
- Note 7 The JAN-9201 ECDIS has been separately assessed by DNV-GL against INS requirements (Integrated Navigation System : Software 02.20 [JRC factory internal maintenance software ref: 02.20.001 or later]) for use within a Track Control System (TCS version 1.xx).
- Note 8 The JAN-9201 meets the requirements of IEC 62923-1 for EUT function type P. An additional Alert Management System licensing option is available which is outside of the scope of this certificate.

4 U.S. Coast Guard Number

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

165.123/EC2443 (ECDIS)
165.124/EC2443 (ECDIS Back-Up)

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:

A handwritten signature in black ink, appearing to read 'A. Little'.

(Andy Little)

Date:

18/08/2025

On behalf of TÜV SÜD DANMARK ApS