



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)2023/1667

**Certificate Holder and** 

Manufacturer

Northrop Grumman Sperry Marine B.V.

Haringbuisweg 33 3133 KP Vlaardingen The Netherlands

Product(s) VisionMaster Net ECDIS

Product Sector Navigation Equipment

Product Type MED/4.30 Electronic Chart Display and Information System (ECDIS)

with Backup

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

Valid from: 20 May 2024 (Andy Little) Expiry Date: 22 March 2025

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



Issued by TÜV SÜD DANMARK ApS under document number: DK-MED000132 Issue 05

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# 1 **Equipment Description**

Electronic Chart Display and Information System (ECDIS) with Backup

## 1.1.1 Processors and Displays<sup>Note 1</sup>

Model	Description
67026AA or 67026AB	26" Panel PC
67024AB or 67019AB	24" or 19" Panel PC
67003AH or 67003KH	Control panel with trackball + keyboard (Integrated or Kit)
67003AF or 67003KF	Control Panel with trackball only (Integrated or Kit)
67003KT	Trackball Desktop Assembly
32SDT003, 32SDT004, 32SDT005 or 32SDT006	Security Device

#### 1.1.2 Interface Units

Model	Description
67004600	Serial Port Expander
4802181 and 65932739	Network Serial Interface and Network switch kit (EDS-G509)

#### 1.1.3 Optional Components

Model	Description
65900AA or 65900AB	PCIO Interface Unit
65900685	Mains Distribution Unit
1982776	Analogue Interface Unit
65932605	Digital Interface Unit
68001AA Note 2	Secure Maritime Gateway

#### 1.2 Software

Identity	Version
VisionMaster Net	4.1.0 Note 3
Baseline Operating System	Windows 10 IoT Enterprise LTSC, Version: 1809

# 2 Assessed Requirements

### 2.1 Implementing Regulation (EU) 2023/1667

# 2.2 Compliance Requirements for MED/4.30 Row 2 of 2 Notes 4, 5 & 6

Type approval requirements	Carriage and Performance Requirements
SOLAS 74 Reg. XV/27 SOLAS 74 Reg. X/3	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 61174: 2015	IEC 62288: 2021
IEC 60945: 2002 incl. IEC 60945 Corr. 1: 2008	IEC 61162-1: 2016
IEC 61162-2: 1998	IEC 61162-450: 2018 Note 7
IEC 62923-1: 2018	IEC 62923-2: 2018
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As well as the equipment compliance with the requirements listed above this manufacturer has a proven record of software maintenance in conformity with the principles of IMO MSC.1/Circ.1503 Rev.1 (revoking IMO SN.1/Circ.266).

### 3 Technical Documentation

### 3.1 Declaration of Conformity

DOC084-MED VMNet Series

#### 3.2 User Guide

VisionMaster Net ECDIS User Guide Part No. 67000012 Rev.6 VisionMaster Net Ships Manual Vol 1 Part No.67000011V1 Rev.6 VisionMaster Net Ships Manual Vol 2 Part No. 67000011V2 Rev.6 TotalCommand Installation, Operation and Service Manual, Part No. 67000007 Rev.1

#### 3.3 Test Reports

IEC 60945:2002	75913301 Report 10 Issue 1, 2020-03-17	JTUV008, 2020-01-27
(inc Corr.1)	JTUV009, 2020-01-22	75947558 Report 01 Issue 01, 2020-01-09
	P19-0070, 2019-04-24	P19-0152-1, 2019-09-03
	5P03620 Rev1, 2015-10-16	P18-055-1, 2018-12-04
	P21-0035-2, 2021-06-24	5P05962 rev 1, 2015-12-16
	P20-0136, 2020-10-07	E13184.00, 2013-08-20
	20053, 2013-11-19	-
IEC 61174:2015	75943301 Report 01 Issue 1, 2020-02-27	75943301 Report 02 Issue 1, 2020-03-11
	75943301 Report 03 Issue 1, 2020-03-11	TR-V1.1.0-VMNet-075, 2021-08-18
	TR-V1.1.0-VMNet-074, 2021-08-11	TR-V3.0.0-VMNet-105, 2022-11-30
	TR-V3.0.0-VMNet-102, 2022-11-30	TR-V4.0.0-VMNet-136, 2023-11-13
	TR-V4.0.0-VMNet-137, 2023-11-14	-
IEC 62288:2021	75913301 Report 04 Issue 1, 2020-02-27	TR-V1.1.0-VMNet-081, 2021-08-11
	TR-V1.1.0-VMNet-079-TC, 2021-08-17	TR-V3.0.0-VMNet-103, 2023-01-23
	TR-V3.0.0-VMNet-107, 2022-12-20	75956857 Report 01 Issue 1, 2022-12-16
	TR-V3.0.0-VMNet-105, 2022-11-30	409514r00, 2020-11-12
	346060r02, 2020-11-25	75959442 Report 01 Issue 1, 2023-11-15
	TR-V4.0.0-VMNet-139, 2023-11-16	TR-V4.1.0-VMNet-146, 2024-05-03



#### **Test Reports - continued**

IEC 61162 Series	75943301 Report 06 Issue 1, 2020-03-04	75943301 Report 07 Issue 2, 2020-03-05
	75943301 Report 08 Issue 1, 2020-03-09	TR-V1.1.0-VMNet-076, 2021-08-09
	TR-V1.1.0-VMNet-077, 2021-08-09	TR-V1.1.0-VMNet-078, 2021-08-11
	75952849 Report 02 Issue 01, 2021-12-06	-
IEC 62923-1:2018	TR-V3.0.0-VMNet-107, 2022-12-20	75952849 Report 01 Issue 01, 2021-12-16
IEC 62923-2:2018	75952849 Report 01 Issue 02, 2022-05-16	TR-V4.0.0-VMNet-135, 2023-11-14

#### 3.4 Build Status

#### 3.4.1 Hardware

VisionMaster Net Technical File VMNetTFRPRT Issue 5A

#### 3.5 Notes

- Note 1 An uninterruptable power supply must be incorporated in the system, the NGSM part number 65932721, 65932722 or 65932723 may be used.
- Note 2 The 68001AA Secure Maritime Gateway is compliant with IEC 60945 (2002) requirements. This Type Approval does not cover any application or function on the external network that uses data exchanged via the Secure Maritime Gateway
- Note 3 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 4 The ECDIS was tested with official IHO ENC Test Data using the Seven Cs chart engine and with SENC data supplied as part of C Map chart licensing.
- Note 5 Conformance with the IHO S-52 'Specifications for Chart Content and Display Aspects of ECDIS' Edition 6.1(1) and IHO S-52 Annex A 'IHO Presentation Library' Edition 4.0(2) was demonstrated using IHO S-64 'Instruction Manual for the use of IHO Test Data Sets in ECDIS' Edition 3.0.2.
- Note 6 The product(s) listed meet(s) the requirements of IEC 62923-1 for EUT function types P, R and S. Image
- Note 7 Transfer to a Voyage Data Recorder via IEC 61162-450 Interface.
- Note 8 The 32SDT005 Multi-node security device allows operation of an integrated multi display ships bridge. A security string defines the product type on all the nodes for a particular vessel's bridge operating plan. The product type must be set to ECDIS, ECDIS with Radar overlay or Total Watch as appropriate.
- Note 9 A Total Watch product enables operation as a Multi-Function workstation and allows the operator to switch between Chart Radar, ECDIS and conning display. This certificate only applies when the mode is set to ECDIS for a Total Watch System.
- Note 10 The VisionMaster Net ECDIS is certified for use as a back-up ECDIS only when connected to a main ECDIS running VisionMaster Net at the same version.
- Note 11 The VisionMaster Net system may include the TotalCommand option which engages third party hardware outside of the scope of this Type Approval. Operation of the TotalCommand functionality is compliant with the User Configured Presentation requirements of IEC 62288. Commissioning and installation of the TotalCommand option should follow the TotalCommand Installation, Operation and Service Manual.

### 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 Backup Equipment)

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 26<sup>th</sup>, 2023.



# 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.

Date: 20/05/2024

Signature:

(Andy Little)

On behalf of TÜV SÜD DANMARK ApS