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DANAK
PROD Reg.No. 7035
Member of EA MLA

TÜV SÜD
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	**Sperry Marine B.V. Haringbuisweg 33 3133 KP Vlaardingen The Netherlands**
Product(s)	**VisionMaster Net ECDIS with Track Control**
Product Sector	**Navigation Equipment**
Product Type	**MED/4.33 Track Control System (working at ship's speed from minimum manoeuvring speed up to 30 knots)**

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

Valid from: 22 March 2025 (Andy Little) Expiry Date: 21 March 2030

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

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TÜV SÜD DANMARK ApS • Strandvejen 125 • 2900 Hellerup • Denmark

TÜV®

1 Equipment Description

Track Control System

1.1.1 Processors and Displays

Model	Description
67027AB	27” Panel PC
67027M	27” Monitor
67001AB	Processor
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)
65903AH and 65903KH	Control panel with trackball + keyboard (Integrated or Kit)
67003AF or 67003KF	Control Panel with trackball only (Integrated or Kit)
67003KT	Trackball Desktop Assembly
67003TA and 67003TB	Trackball Desktop Assembly
32SDT003, 32SDT004, 32SDT005 or 32SDT006 Notes 1&2	Security Device
074929-0000-xxx Note 3	NAVIPILOT 4500N, Control and Display Unit (CDU)
074928-0000-xxx Note 3	NAVIPILOT 4500N, Autopilot Processing Unit (APU)

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 4	Secure Maritime Gateway
4303153	Course Mode Joystick
67003BA & 67003BB	Course Mode Joystick
074851-0000-xxx	Steering Control Interface Unit

1.2 Software Note 5

Identity	Version
VisionMaster Net	5.0.0
Baseline Operating System	Windows 10 IoT Enterprise LTSC, Version: 1809
NAVIPILOT 4500N Application	2.xxx or 3.xxx

2 Assessed Requirements

2.1 Implementing Regulation (EU)2024/1975

2.2 Compliance Requirements for MED/4.33 Row 2 of 2 Notes 6, 7 & 8

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.74(69) IMO Res. MSC.191(79) IMO Res. MSC.302(87).
Assessed Testing Standards	
IEC 62065:2014	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 9
IEC 62923-1:2018	IEC 62923-2:2018

3 Technical Documentation

3.1 Declaration of Conformity

DOC086-MED VMNet Series

3.2 User Guide

VisionMaster Net ECDIS User Guide, Part No. 67000012 Rev.7
VisionMaster Net Ships Manual Vol 1, Part No.67000011V1 Rev.7
VisionMaster Net Ships Manual Vol 2, Part No. 67000011V2 Rev.7
Navipilot 4500N Operation Manual, Part No. 056403 Rev.D
Navipilot 4500N Installation and Service Manual, Part No. 056404 Rev.D

3.3 Test Reports

IEC 60945:2002 (inc Corr.1)	75913301 Report 10 Issue 1, 2020-03-17	JTUV008, 2020-01-27
	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	124-25023-4, 2024-08-29
	124-25023-3, 2024-08-01	P24-0062, 2024-11-17
	75962197-01 Issue 01, 2024-10-15	P22-0126 Rev 1, 2022-11-01
	75962197-02 Issue 01, 2024-10-15	JTUV030 Rev 1A, 2023-02-23
	105950162LHD-001, 2024-09-27	JTUV042, 2024-12-09
	105981793LHD-001, 2024-11-21	QINETIQ/TEG/TECS/TSTR1000308, 2010-10-22
	P24-0117-2, 2024-11-04	75943301 Report 10 Issue 1, 2020-03-17
	P24-0058, 2024-06-14	TR-V4.1.0-VMNet-161 Issue: 1, 2024-10-29
	Corrosion resistance statement for CST100F9-2397-MC9, 2025-01-09	Corrosion resistance statement for TBE38S0-2294-MC1, 2025-01-09
	Corrosion resistance statement for TBE38B0-2422-MC1, 2025-01-09	Corrosion resistance statement for CST100F9-2327-MC9, 2025-01-09
	JTUV043, 2025-01-07	23-18343, 2023-11-21
	073650.091.23 V1.0, 2023-04-26	DCU32 Corrosion Waiver, 2025-02-14
	1137, 2024-01-25	P19-0173, 2019-10-25

Test Reports - continued

IEC 62065:2014	75943301 Report 09, 2020-03-11	MEDB00006Y5 Rev 1, 2023-06-15
	TR-V3.0.1-VMNet-126 Issue: 2, 2023-08-03	TR-V3.0.1-VMNet-122 Issue: 1, 2023-06-26
	TR-V4.0.0-VMNet-133, 2023-11-15	TR-V4.1.0-VMNet-148, 2024-05-03
	TR-V4.1.0-VMNet-159 Issue 1, 2024-08-22	TR-V4.1.0-VMNet-160 Issue 1, 2024-10-28
	TR-V1.1.0-VMNet-072, 2021-08-03	TR-V5.0.0-VMNet-173, 2025-01-24
IEC 62288:2021	75913301 Report 04 Issue 1, 2020-02-27	TR-V3.0.0-VMNet-103, 2023-01-23
	TR-V1.1.0-VMNet-079-TC, 2021-08-17	75956857 Report 01 Issue 1, 2022-12-16
	TR-V3.0.0-VMNet-107, 2022-12-20	409514r00, 2020-11-12
	TR-V3.0.0-VMNet-105, 2022-11-30	TR-V3.0.1-VMNet-124 Issue: 1, 2023-07-20
	346060r02, 2020-11-25	TR-V4.0.0-VMNet-139, 2023-11-16
	75959442 Report 01 Issue 1, 2023-11-15	REP063829, 2024-11-14
	TR-V4.1.0-VMNet-146, 2024-05-03	TR-V5.0.0-VMNet-163 Issue 2, 2024-12-09
	REP037154, 2024-09-04	-
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	TR-V5.0.0-VMNet-162 Issue 1, 2024-12-03
IEC 62923-1:2018 IEC 62923-2:2018	TR-V3.0.0-VMNet-107, 2022-12-20	75952849 Report 01 Issue 01, 2021-12-16
	75952849 Report 01 Issue 02, 2022-05-16	TR-V4.0.0-VMNet-135, 2023-11-14
	TR-V5.0.0-VMNet-169 Issue 1, 2025-01-24	TR-V5.0.0-VMNet-172 Issue 1, 2025-01-24

3.4 Build Status

3.4.1 Hardware

VisionMaster Net Technical File VMNetTFRPRT Issue 6C

3.5 Notes

Note 1 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 2 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 3 Refer to Type Approval certificate MEDB00006Y5 for full product information for the NAVIPILOT 4500N. The NAVIPILOT 4500N is to be setup and operated in Standard Speed Mode for use with the VisionMaster Net ECDIS with Track Control.

Note 4 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 5 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 6 The product(s) listed meet(s) the requirements of IEC 62923-1 for EUT function types P, R and S.

Note 7 The VisionMaster Net ECDIS with Track Control meets the requirements for a Category C track control system.

Note 8 This equipment also provides an interface to the ship's propulsion controller which is compliant with IEC 62065:2014 Annex B (Speed Control) when used in Route Based Speed Control mode.

Note 9 Image Transfer to a Voyage Data Recorder via IEC 61162-450 Interface.

Danmark

4 U.S. Coast Guard Number

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

165.112/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.

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: 22/03/2025

Signature: 

(Andy Little)

On behalf of TÜV SÜD DANMARK ApS