



UK Approved Body Authorised  
by the MCA



## Marine Equipment UK Assessment Module B Type Examination Certificate

This is to certify that TUV SUD BABT UNLIMITED did undertake the relevant type approval procedures for the type of equipment identified below, which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, under Annex 1 of the listed Amendment of MSN 1874 for the types of equipment identified.

|  |  |
|--|--|
| <b>MSN 1874 Amendment</b>                  | <b>Amendment 10</b>  |
| <b>Certificate Holder and Manufacturer</b> | <b>Sperry Marine B.V.<br/>118 Burlington Road,<br/>New Malden,<br/>Surrey<br/>KT3 4NR<br/>United Kingdom</b> |
| <b>Product(s)</b>                          | <b>VisionMaster Net ECDIS with Track Control</b>   |
| <b>Product Sector</b>                      | <b>Navigation Equipment</b>  |
| <b>Product Type</b>                        | <b>UK/4.33 Track Control System (working at ship's speed from minimum manoeuvring speed up to 30 knots)</b>  |

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

TÜV SÜD BABT is a UKAS accredited Certification Body No. 0172.  
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](mailto:BABT@tuvsud.com)

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Issued by TUV SUD BABT Unlimited under document number: BABT-UKMA000104 Issue 06

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# Annex to Marine Equipment UK Conformity Assessment Module B Type Examination Certificate

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## 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 <small>Notes 1&amp;2</small> | Security Device   |
| 074929-0000-xxx <small>Note 3</small>                                 | NAVIPILOT 4500N, Control and Display Unit (CDU)             |
| 074928-0000-xxx <small>Note 3</small>                                 | 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 <small>Note 4</small> | 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                                |

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## 2 Assessed Requirements

### 2.1 MSN 1874 Amendment 10 Annex 1

### 2.2 Compliance Requirements for UK/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<br>IMO Res. A.694(17)<br>IMO Res. MSC.74(69)<br>IMO Res. MSC.191(79)<br>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 <small>Note 9</small>   |
| IEC 62923-1:2018                            | IEC 62923-2:2018   |

## 3 Technical Documentation

### 3.1 Declaration of Conformity

DOC086-MER 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<br>(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<br>CST100F9-2397-MC9, 2025-01-09 | Corrosion resistance statement for<br>TBE38S0-2294-MC1, 2025-01-09  |
|                                | Corrosion resistance statement for<br>TBE38B0-2422-MC1, 2025-01-09  | Corrosion resistance statement for<br>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  |

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## Test Reports - continued

|                  |  |  |
|------------------|--|--|
| IEC 62065:2014   | 75943301 Report 09, 2020-03-11           | TR-V4.1.0-VMNet-160 Issue 1, 2024-10-28  |
|                  | TR-V3.0.1-VMNet-126 Issue: 2, 2023-08-03 | 5032-0141-12, 2023-06-14                 |
|                  | 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-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 | 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          |
|                  | 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 MERB00006Y5 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.

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### 4 Conditions of Validity

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with TUV SUD BABT or a person appointed by TUV SUD BABT to perform that role.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.

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 Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body.

Signature:



(Andy Little)

Date:

22/03/2025

On behalf of TUV SUD BABT UNLIMITED