



Danmark

Marine Equipment Directive Module D Quality System Certificate

This is to certify that TÜV SÜD DANMARK ApS did undertake the relevant assessment procedures for the quality system under the control of the manufacturer for the equipment identified in the Annex to this Certificate which was found to be in compliance with the Marine Equipment Directive (2014/90/EU) requirements under the following Implementing Regulation. Compliance was demonstrated by assessment to the Marine Equipment Directive 2014/90/EU Annex II, part II (Module D: Conformity to Type Based on Quality Assurance of the Production Process)

Implementing Regulation

(EU)2022/1157

Certificate Holder and

Northrop Grumman Sperry Marine B.V.

Manufacturer

Haringbuisweg 33 3133 KP Vlaardingen The Netherlands

Product Sector

Navigation Equipment

Valid from: 27 January 2023

Expiry Date: 31 December 2024

This certificate has been issued in accordance with the TÜV SÜD Testing and Certification 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-MED005726-H1 Issue 04

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



1 Details of the Productions Facilities (Fabricators)

1.1 Names and Addresses

Facility No.: 5726

Name: Northrop Grumman Sperry Marine B.V.

Address: 118 Burlington Road

New Malden Surrey KT3 4NR United Kingdom

Facility No.: 5732

Name: ZTA AD Bulgaria Address: 2770 Bansko 82

Tsar Simeon Str

Bulgaria

Facility No.: 5729

Name: ISIC A/S Denmark Address: Edwin Rahrs Vej 54

8220 Brabrand Denmark

Facility No.: 5730

Name: Melford Technology Ltd

Address: Units 3 & 4 St Georges Industrial Estate

White Lion Road Amersham Buckinghamshire HP7 9JQ

United Kingdom

Facility No.: 5731

Name: Hatteland Technology AS

Address: Eikeskogvegen 52

Aksdal 5570 Norway

1.2 Product Sectors Covered:

Navigation Equipment



2 Module B Type Examination Certificate Information

Item No. MED/4.30 Electronic Chart Display and Information System (ECDIS) Equipment

Product	Implementing Regulation	Module B Certificate no.	Expiry Date	NB Number
VisionMaster FT, ECDIS	(EU)2021/1158	DK-MED001126	2024-04-24	2443
	USCG	165.123/EC2443/DK-MED001126 (ECDIS) 165.124/EC2443/DK-MED001126 (ECDIS Backup)		
VisionMaster FT ECDIS-E	(EU)2021/1158	DK-MED000051	2023-11-12	2443
	USCG	165.123/EC2443/DK-MED000051 (ECDIS) 165.124/EC2443/DK-MED000051 (ECDIS Backup)		
VisionMaster Net ECDIS	(EU)2022/1157	DK-MED000132	2025-03-22	2443
	USCG	165.123/EC2443/DK-MED000132 (ECDIS) 165.124/EC2443/DK-MED000132 (ECDIS Backup)		

Item No. MED/4.33 Track Control System

Product	Implementing Regulation	Module B Certificate no.	Expiry Date	NB Number
VisionMaster FT, ECDIS with Track Control	(EU)2020/1170	DK-MED001127	2024-04-24	2443
	USCG	165.112/EC2443/DK-MED001127		
VisionMaster Net, ECDIS with Track Control	(EU)2021/1158	DK-MED000133	2025-03-22	2443
	USCG	165.112/EC2443/DK-MED000133		

Item No. MED/4.34 Category 1 RADAR Equipment

Product	Implementing Regulation	Module B Certificate no.	Expiry Date	NB Number
VisionMaster FT, CAT1 34, Client-Server	(EU)2021/1158	DK-MED001124	2024-04-24	2443
	USCG	165.115/EC2443/DK-MED001124		
VisionMaster FT, CAT1 34 VisionMaster FT Dual Channel, CAT1 34	(EU)2021/1158	DK-MED001128	2024-04-24	2443
	USCG	165.115/EC2443/DK-MED001128		



Item No. MED/4.35 Category 2 RADAR Equipment

Product	Implementing Regulation	Module B Certificate no.	Expiry Date	NB Number
VisionMaster FT, ECAT2 25, Client-Server	(EU)2021/1158	DK-MED001125	2024-04-24	2443
	USCG	165.116/EC2443/DK-MED001125		
VisionMaster FT, CAT2 25 VisionMaster FT, ECAT2 25 VisionMaster FT Dual Channel, ECAT2 25	(EU)2021/1158	DK-MED001129	2024-04-24	2443
	USCG	165.116/EC2443/DK-MED001129		

Item No. MED/4.37 RADAR Equipment for high speed craft applications

Product	Implementing Regulation	Module B Certificate no.	Expiry Date	NB Number
VisionMaster FT, CAT1H 34, Client-Server	(EU)2021/1158	DK-MED001124	2024-04-24	2443
	USCG	165.216/EC2443/DK-MED001124		
VisionMaster FT, ECAT2H 25, Client-Server	(EU)2021/1158	DK-MED001125	2024-04-24	2443
	USCG	165.217/EC2443/DK-MED001125		
VisionMaster FT, CAT1H 34 VisionMaster FT Dual Channel, CAT1H 34	(EU)2021/1158	DK-MED001128	2024-04-24	2443
	USCG	165.216/EC2443/DK-MED001128		
VisionMaster FT, CAT2H 25 VisionMaster FT, ECAT2H 25 VisionMaster FT Dual Channel, ECAT2H 25	(EU)2021/1158	DK-MED001129	2024-04-24	2443
	USCG	165.217/EC2443/DK-MED001129		

Item No. MED/4.38 RADAR Equipment approved with a chart option

Product	Implementing Regulation	Module B Certificate no.	Expiry Date	NB Number		
Item No MED/4.38(a) CAT1C and MED/4.38(c) CA	Item No MED/4.38(a) CAT1C and MED/4.38(c) CAT1HC					
VisionMaster FT, CAT1C 34, Client-Server VisionMaster FT, CAT1HC 34, Client-Server	(EU)2021/1158	DK-MED001124	2024-04-24	2443		
VisionMaster FT, CAT1C 34 VisionMaster FT Dual Channel, CAT1C 34 VisionMaster FT, CAT1HC 34 VisionMaster FT Dual Channel, CAT1HC 34	(EU)2021/1158	DK-MED001128	2024-04-24	2443		
Item No MED/4.38(b) CAT2C and MED/4.38(d) CA	T2HC					
VisionMaster FT, ECAT2C 25, Client-Server VisionMaster FT, ECAT2HC 25, Client-Server	(EU)2021/1158	DK-MED001125	2024-04-24	2443		
VisionMaster FT, ECAT2C 25 VisionMaster FT Dual Channel, ECAT2C 25 VisionMaster FT, ECAT2HC 25 VisionMaster FT Dual Channel, ECAT2HC 25	(EU)2021/1158	DK-MED001129	2024-04-24	2443		



Item No. MED/4.64 CAT 1 RADAR Equipment Item No. MED/4.64 CAT 2 RADAR Equipment

Product	Implementing Regulation	Module B Certificate no.	Expiry Date	NB Number
VisionMaster Net CAT1 Radar Systems	(EU)2022/1157	DK-MED000131	2025-03-22	2443
	USCG	165.115/EC2443/DK-MED000131		
VisionMaster Net CAT2 Radar Systems	(EU)2022/1157	DK-MED000131	2025-03-22	2443
	USCG	165.116/EC2443/DK-MED000131		
VisionMaster Net CAT1 Chart Radar Systems VisionMaster Net CAT2 Chart Radar Systems	(EU)2022/1157	DK-MED000131	2025-03-22	2443

3 U.S. Coast Guard Number

If applicable, this manufacturer can affix the U.S. Coast Guard approval number 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. 1/2018 signed February 18th, 2019.

4 Conditions of Validity

The reference to Module B certificates relate to the issue of certificate valid at the time of issue. Any later issue(s) are also valid within the validity dates of this Module D certificate.

This certificate authorises the manufacturer (or his authorised representative established within the EU community) to affix the "Mark of Conformity" (Wheel Mark), in conjunction with an EC Type Examination (Module B) certificate appropriate, to one of the item designation types listed above.

This certificate loses its validity if the manufacturer makes any changes or modifications to the approved quality system which have not been notified to and agreed with TÜV SÜD DANMARK ApS.

The manufacturer must immediately cease affixing the "Mark of Conformity" on any product subject to suspension, termination, expiry, withdrawal or revocation of the supporting EC Type Examination (Module B) Certificate.

Date:

2023-01-27

Signature:

T. J. Juynam (Thomas J. Twynam)

On behalf of TÜV SÜD DANMARK ApS

DK-MED005726-H1 i04 Annex Issue 02