



U. S. Department of Homeland Security United States Coast Guard Certificate of Approval

Coast Guard Approval Number: 165.123/30/0

Expires: 6 January 2021

Northrop Grumman Sperry Marine B.V.
118 Burlington Road
New Malden
Surrey KT3 4NR
United Kingdom

Northrop Grumman Sperry Marine VisionMaster FT Electronic Chart Display and Information System (ECDIS)

The VisionMaster FT ECDIS meets the requirements set forth in:

IMO Resolution A.694(17), MSC.191(79) and MSC.232(82))
IEC 61174 (2008)
IEC 61162 (applicable parts)
IEC 62288 (2008) and
IEC 60945 (2002).

The VisionMaster FT ECDIS consists of the following equipment:

Processor: 65901AN, 65901AT, 65901AE(Dual), and 65901AC
Display: 65926E, 65926L (25.5"), or 65823A, 65923C, 65923E (23.1"),
65927A and 65927C (27"), or 65817G (19.0")
PCIO Interface Unit: 65900AA or 65900AB
Control Panel: 65903AF, 65903AG, 65903AH, 65903KF, 65903KG, or 65903KH
Security Device: 32SDR003, 32SDR004, 32SDR005, or 32SDR006
Integrated Tabletop Display: 65920BNAF, 65920BNAG, 65920BNBF, or 65920BNBG
65920BTAF, 65920BTAG, 65920BTBF, or 65920BTBG
Aux. PCIO Interface Unit: 65940AA
Network Serial Interface: 4802181
External Serial Interface: 4801162
Course Mode Joystick: 4303153
Analog Interface Assembly: 1982776
Network Switch: RA00009746, 4305049-1, 4305049-2, or 4305049-4
Kit Format Units: 65900614, 65900615, 65900667, 65900668, 65900625, and 65900635
Software Version: 7.0.0

Northrop Grumman Sperry Marine VisionMaster FT ECDIS

*** END ***

THIS IS TO CERTIFY THAT the above named manufacturer has submitted to the undersigned satisfactory evidence that the item specified herein complies with the applicable laws and regulations as outlined on the reverse side of this Certificate, and approval is hereby given. This approval shall be in effect until the expiration date hereon unless sooner canceled or suspended by proper authority.



GIVEN UNDER MY HAND THIS 6th DAY OF
JANUARY 2016, AT WASHINGTON D.C.

TODD M. HOWARD, CDR
CHIEF, SYSTEMS ENGINEERING DIVISION
BY DIRECTION OF THE COMMANDANT, U.S.C.G.

TERMS: The approval of the item described on the face of the Certificate has been based upon the submittal of satisfactory evidence that the item complies with the applicable provisions of the navigation and shipping laws and the applicable regulations in Title 33 and/or Title 46 of the Code of Federal Regulations. The approval is subject to any conditions noted on this Certificate and in the applicable laws and regulations governing the use of the item on vessels subject to Coast Guard inspection or on other vessels and boats.

Consideration will be given to an extension of this approval provided application is made 3 months prior to the expiration date of this Certificate.

The approval holder is responsible for making sure that the required inspections or tests of materials or devices covered by this approval are carried out during production as prescribed in the applicable regulations.

The approval of the item covered by this certificate is valid only so long as the item is manufactured in conformance with the details of the approved drawings, specifications, or other data referred to. No modification in the approved design, construction, or materials is to be adopted until the modification has been presented for consideration by the Commandant and confirmation received that the proposed alteration is acceptable.

NOTICE: Where a manufacturer of safety-at-sea equipment is offering for sale to the maritime industry, directly or indirectly, equipment represented to be approved, which fails to conform with either the design details or material specifications, or both, as approved by the Coast Guard, immediate action may be taken to invoke the various penalties and sanctions provided by law including prosecution under 46 U.S.C. 3318, which provides:

"A person that knowingly manufactures, sells, offers for sale, or possesses with intent to sell, any equipment subject to this part (*Part B. of Subtitle II of Title 46 U.S.C.*) and the equipment is so defective as to be insufficient to accomplish the purpose for which it is intended, shall be fined not more than \$10,000, imprisoned for not more than 5 years or both."