

1 Equipment Description

Electronic Chart Display and Information System (ECDIS) with Backup, and Raster Chart Display System (RCDS)

1.1.1 Processor and Display Options

Part No.	Description
65901AC, 65901AN, 65901AP, 65901AT, 65901AU and 65901AE (Dual), 65901AF (Dual)	Processor
65926H, 65926P, 65926L	25.5" Display
65823A, 65923C	23.1" Display
65817G	19" Display
65926AA	25.5" Panel PC
65926AB	25.5" Slimline Panel PC
65900AA or 65900AB	PCIO Interface Unit
65903AF, 65903AG, 65903AH, 65903KF, 65903KG, 65903KH, 67003AF, 67003KF, 67003AH, 67003KH	Control Panel
32SDR003, 32SDR004, 32SDR005 32SDR006 or 32SDT003, 32SDT004, 32SDT005 or 32SDT006 ^{Note 2&3}	Security Device
65920BNAF, 65920BNAG, 65920BNBF, 65920BNBG, 65920BTAF, 65920BTAG, 65920BTBF, 65920BTBG, 65920CNAF, 65920CNAG, 65920CNBF, 65920CNBG, 65920CTAF, 65920CTAG, 65920CTBF or 65920CTBG	Integrated Tabletop Display

1.1.2 Ancillary Components

Part No.	Description
65940AA	Auxiliary PCIO Interface Unit for Dual
4802181	Network Serial Interface
4801162	External Serial Interface
4303153	Heading Mode Joystick
1982776	Analogue Interface Assembly
RA00009746, RA00004325 or RA00014423	Network Switch
65900614, 65900615, 65900667, 65900668, 65900635, 65900625 and 65900670	Kit Format Units
65932605	Digital Interface Unit

1.2 Software

Identity	Version
VisionMaster FT Software	15.0.0 ^{Note 4}
Baseline Operating System	Windows 10 IoT Enterprise LTSC, Version: 1809

2 Assessed Requirements

2.1 MSN 1874 Amendment 5 Annex 1

2.2 Compliance Requirements for UK/4.30 Notes 5, 6, 7 & 8

IMO Resolutions		International Testing Standards
Resolution MSC.232(82)	IEC 61174:2015	Electronic Chart Display & Information System (ECDIS)
Resolution MSC.191(79)	IEC 62288 (2014)	Maritime navigation and radiocommunication equipment and systems — Presentation of navigation-related information on shipborne navigational displays — General requirements
Resolution A.694(17)	IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)	Maritime navigation and radiocommunication equipment and systems — General requirements
	IEC 61162-1 (2016)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 1: Single talker and multiple listeners
	IEC 61162-2 (1998)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 2: Single talker and multiple listeners, high-speed transmission
	IEC 61162-450 (2018)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 450: Multiple talkers and multiple listeners — Ethernet interconnection
Resolution MSC.302(87)	IEC 62923-1:2018	Maritime navigation and radiocommunication equipment and systems — Bridge alert management Part 1: Operational and performance requirements, methods of testing and required test results
	IEC 62923-2:2018	Maritime navigation and radiocommunication equipment and systems — Bridge alert management Part 2: Alert and cluster identifiers and other additional features
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

DoC074C-UKCA VMFT ECDIS

3.2 User Guide

ECDIS User Guide Part No. 65900012-15

VisionMaster Ships Manual Part No.65900011V1- 20

VisionMaster Ships Manual Part No.65900011V2- 20

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



3.3 Test Reports

IEC 60945:2002 (inc Corr.1)	QinetiQ/EMEA/iX/CR070194/Issue 1.0, 2007-12-20	6P03819-2, 2016-09-13
	QinetiQ-MS-EES-TC0802918, 2008-10-17	103230862LHD-001, 2017-12-06
	QinetiQ-EMEA-iX-CR0709724-2, 2008-03-06	P18-0055-1, 2018-12-04
	QinetiQ-MS-EES-TSTR0801342-1, 2008-07-30	103230862LHD-001 Issue 4, 2018-01-02
	QINETIQ-MS-EES-TSTR0801840-1, 2008-09-03	21009 Rev 0, 2017-02-10
	QinetiQ-MS-EES-TSTR0900216-1.0, 2009-01-29	QinetiQ/EMEA/iX/CR0802757/Issue 1.1, 2008-02-19
	MET EMC19618-EN60945, 2006-08-28	QinetiQ-MS-EES-TC0905317, 2009-12-14
	75906944 Report 01 Issue 1, 2010-01-14	QinetiQ-MS-EES-TSTR0900779-1.0, 2009-02-24
	75931934 Report 01 Issue 1, 2015-12-16	QINETIQ/MS/EES/TSTR0903808/3.0, 2009-12-14
	75909781 Report 02 Issue 1, 2010-08-24	QINETIQ/TEG/TECS/TSTR1000308, 2010-10-22
	75919870 Report 04 Issue 1, 2013-04-29	QINETIQ/TEG/TECS/TSTR1000030, 2010-08-19
	75921754 Report 01 Issue 1, 2013-04-25	QINETIQ-MS-EES-TSTR0902273-1, 2009-06-03
	BO613465/1, 2004-12-24	QinetiQ-TEG-TECS-TSTR1100065-Issue 3.0, 2011-02-28
	2008-3142 Rev 01, 2008-03-11	QinetiQ/TEG/TECS/TC1100272, 2011-02-02
	2008-3464 Rev 02, 2008-09-18	QinetiQ/MS/EES/TC0803242, 2008-11-14
	2010-3124 Rev 02, 2010-04-20	QINETIQ-MS-EES-TSTR1001283, 2010-04-26
	2005-3112 Rev 01, 2005-03-14	QINETIQ-TEG-TECS-TSTR1101456-1.0, 2011-05-04
	2008-3143 Rev 01, 2008-03-11	QINETIQ/MS/WD/TSTR1201598, 2012-07-03
	DNV 2013-3038 Rev 00, 2013-04-03	QinetiQ/TEG/TECS/TSTR1102226, 2011-08-22
	DANAK-196393, 2002-09-04	JA 340-8596-1, 2006-07-14
	DANAK-198181, 2005-12-23	JA 340-8596-2, 2006-05-08
	DANAK-198236, 2006-01-20	JA 340-8596-4, 2006-03-16
	DANAK-1911472, 2011-07-18	TL1016, 2006-10-30
	DANAK-19/12564, 2012-11-02	TL1316, 2009-06-29
	DANAK-198899 Revision 2, 2007-12-10	254678, 2014-03-12
	DANAK-1910255, 2008-08-18	E12140.01, 2012-08-01
	DANAK-1910681 Revision B, 2010-01-25	416.095.1, 2016-06-17
	5P05969-1, 2015-10-30	416.095.2, 2016-05-11
	4P07869, 2014-12-05	416.095.3, 2016-05-18
	4P00022-2, 2014-05-06	962, 2017-03-08
	5000657, 2007-06-28	8P06394 CSD, 2018-08-27
	75947558 Report 01 Issue 01, 2020-01-09	P19-0070, 2019-04-24
	P19-0152-1, 2019-09-03	5P03620_rev1, 2015-10-16
	75948540 Report 01 Issue 1, 2020-06-12	75948540 Report 02 Issue 2, 2020-06-22
TR-V15.0.0-NML-090, 2021-12-01	P20-0136, 2020-10-07	
200909004T Rev.1, 2020-12-16	5P05962 rev 1, 2015-12-16	
200909005T Rev.1, 2020-12-10	P21-0035-2, 2021-06-24	
P19-0173, 2019-10-25	-	
IEC 61174:2015	TR-V9-NML-001, 2017-04-19	TR-V10.0.1-NML-008, 2018-02-12
	TR-V9-NML-002, 2017-04-19	TR-V12-NML-031, 08-08-2019
	TR-V10-NML-003, 2017-10-11	TR-V12-NML-032, 2019-08-08
	TR-V10-NML-006, 2017-09-18	TR-V11.1-NML-022, 2019-01-14
	TR-V12.2-NML-038 Issue: 1, 2020-02-20	TR-V12.2-NML-044 Issue: 1, 2020-02-20
	TR-V12.4-NML-050 Issue 01, 2020-09-24	TR-V12.4-NML-054 Issue 01, 2020-09-25
	TR-V12.4-NML-053 Issue 01, 2020-09-24	TR-V15.0.0-NML-087, 2021-12-01
	TR-V15.0.0-NML-083, 2021-11-30	TR-V15.0.0-NML-084, 2021-12-01
IEC 62288:2014	TR-V10-NML-004, 2017-09-18	TR-V10.0.1-NML-010, 2018-02-12
	ECDIS Monitor (LCD) Test Procedure and Report, 2005-04	TR-V10.0.1-NML-011, 2018-02-12
	DOC102351-1 Rev 2, 2017-04-05	TR-V10-NML-004, 2017-09-18
	DOC102352-3 Rev 1, 2016-11-11	TR-V11-NML-017, 2018-11-12
	DOC102352-4 Rev 2, 2017-04-03	362879 Issue 00, 2018-11-06
	TR-V12-NML-028, 2019-09-02	TR-V11.1-NML-021, 2018-12-20
	TR-V12.2-NML-042 Issue: 1, 2020-02-20	278-226, 2020-06-17
	TR-V12.4-NML-055 Issue: 1, 2020-09-30	TR-V15.0.0-NML-085, 2021-12-01
75952849 Report 03 Issue 01, 2021-12-16	-	
IEC 61162 Series	BSH 46162-0040380-07, 2007-09-12	TR-V11-NML-015, 2018-11-12
	TR-V12-NML-029, 2019-09-02	TR-V12-NML-030, 2019-08-08
	TR-V12.2-NML-039 Issue: 1, 2020-02-20	TR-V12.2-NML-043 Issue: 1, 2020-02-20
	75952849 Report 02 Issue 01, 2021-12-06	TR-V15.0.0-NML-088, 2021-12-03
IEC 62923 Series	75952849 Report 01 Issue 01, 2021-12-16	-
Miscellaneous	VisionMaster FT Release 10.0.0 System Performance Test Report, 2017-11-27	TR-V12-NML-033, 2019-08-08
	TR-V11-NML-019 (System Performance Test), 2018-11-12	TR-V11.1-NML-023, 2018-12-20
	TR-V10.0.1-NML-012, 2018-02-16	TR-V11.1-NML-024, 2019-01-03
	TR-V11-NML-019, 2018-11-12	TR-V12.2-NML-041 Issue: 1, 2020-02-20
	TR-V15.0.0-NML-091, 2021-12-01	-

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



3.4 Build Status

3.4.1 Hardware

VisionMaster FT Technical File VMFTRPRT Issue 16, 2022-02-10

3.5 Notes


- Note 1 An uninterruptable power supply must be incorporated in the system, the NGSMS part number 65932721, 65932722 or 65932723 may be used.
- Note 2 The 32SDR005 or 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 3 A Total Watch product enables operation as a Multi-Function workstation and allows the operator to switch between ECDIS and other functions. This certificate only applies when the mode is set to ECDIS for a Total Watch System.
- Note 4 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the TÜV SÜD Testing and Certification Regulations
- Note 5 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. ARCS chart test data was used to check RCDS charts.
- Note 6 Conformance with the IHO S-52 'Specifications for Chart Content and Display Aspects of ECDIS' Edition 6.1 and IHO S-52 Annex A 'IHO Presentation Library' Edition 4.0 was demonstrated using IHO S-64 'Instruction Manual for the use of IHO Test Data Sets in ECDIS' Edition 3.0.
- Note 7 The VisionMaster ECDIS meets the requirements of IEC 62923-1 for EUT function type P and type R.
- Note 8 Image Transfer to a Voyage Data Recorder via an IEC 61162-450 Interface.
- Note 9 The VisionMaster FT is certified for use as a back-up ECDIS only when connected to a main ECDIS running VisionMaster FT at the same version.

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.

Should the specified regulations (international conventions and the relevant resolutions and circulars of the IMO) or standards be amended and enforced through MSN 1874 during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on the market or onboard vessels to which the amended regulations or standards apply.

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: 
(Thomas J. Twynam)

Date: 2022-02-17

On behalf of TUV SUD BABT UNLIMITED