

**EC TYPE EXAMINATION (MODULE B) CERTIFICATE**

This is to certify that :

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), specified as a "notified body" under the terms of The Merchant Shipping (Marine Equipment) Regulations S.I. 1999 No. 1957, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Life Saving Appliance requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC and 2002/84/EC subject to any conditions in the Design Appraisal Document attached hereto.

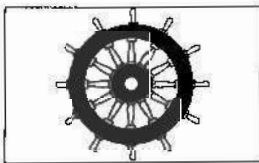
<b>Manufacturer</b>	Kelvin Hughes Limited
<b>Address</b>	New North Road Hainault Ilford Essex, IG6 2UR United Kingdom (UK)
<b>Annex A1 Item</b>	A.1/4.33 - TRACK CONTROL SYSTEM
<b>USCG Category Number</b>	165.112 - TRACK CONTROL
<b>Product Type</b>	SHIP'S TRACK CONTROL SYSTEM
<b>Product Description</b>	Ship's Track Control System comprising Nucleus 5000/6000 ECDIS or Manta 1700, 2000 and 2300 ECDIS and EMRI SEM 200 Autopilot
<b>Specified Standard</b>	Functional Test Standard: IEC 62065 (2002), EN60945 (2002) and IEC 61162-1 (2000)

The attached Design Appraisal Document (schedule) forms part of this certificate.  
This certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Date of issue	6 April 2005	Expiry date	10 November 2008
Certificate No.	MED 0500018	Signed	
Sheet No	1 of 2	Name	S. Marsh For and on behalf of Lloyd's Register Verification LRV IC Distinguishing No. 0038

Note:

This certificate is not valid for equipment; the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.



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Subject to compliance with the conditions in the attached Design Appraisal Document (schedule), which forms part of this certificate, and those of Articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.

yy = Last two digits of year mark affixed.

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

USCG Module B number: 165.112/EC0038/MED 0500018

**USCG-EU MRA**

to note type approval to Module B only as it pertains to obtaining U. S. Coast Guard 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" signed February 27th, 2004.

This certificate is issued under the authority of the MCA.

Lloyd's Register Verification is the business name of Lloyd's Register Verification Limited, a member of the Lloyds Register Group. Registration number 4929226. Registered office 71 Fenchurch Street, London EC3M 4BS, England.

\*Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.\*

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Issue number	1

### DESIGN APPRAISAL DOCUMENT

Date 6 April 2005	Quote this reference on all future communications LPA/SSS/FSS/LSA/RA
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#### ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 0500018

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

#### APPROVAL DOCUMENTATION

All documentation mentioned on Design Appraisal Document 03/00037 (E1), Issue 2, Reference: MSC/DAPP/ECE/TA/W00143370/PAHH/O-31754, dated 01 April 2003 and MSC/DAPP/TA/ECE/W00366661/PAH/O-40437, dated 11 November 2003.

#### TEST REPORTS

System manual for Manta ECDIS Displays, Issue No. 3, dated May 2003  
6542/080318/2003/S3330, dated 26 November 2003  
6542/080296/2003/S3330, dated 16 April 2003

#### CONDITIONS OF CERTIFICATION

1. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or a Product Verification Process (Module F) of the Marine Equipment Directive. However, Module G may also be used but not in conjunction with this certificate. The wheelmark cannot be affixed to the product until a conformity assessment module is in place.
2. This product has been assigned a U.S. Coast Guard Module B number 165.112/EC0038/MED 0500018 to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard 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" signed February 27th, 2004.

In those instances where the Notified Body conducting the conformity assessment in accordance with either Module D, E or F of the Marine Equipment Directive is not Lloyd's Register Verification Ltd, such Notified Body would use the above U.S. Coast Guard Module B number to provide the manufacturer with the U.S. Coast Guard approval number by noting it on the Certificate of Conformity, thereby authorizing the manufacturer to mark the product accordingly.

Note: For products placed on board U.S. flagged ships there is no declaration of conformity required to meet U.S. Coast Guard requirements

#### PLACE OF PRODUCTION

Kelvin Hughes Limited  
New North Road  
Hainault  
Ilford  
Essex, IG6 2UR  
United Kingdom (UK)



Stuart Marsh  
Senior Surveyor  
For and on behalf of Lloyd's Register Verification  
LRV EC Distinguishing No. 0038