

## 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 Navigation 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 USCG Category Number</b>	Track Control System (A.1/4.33) 165.112 - TRACK CONTROL
<b>Product Type</b>	SHIP'S TRACK CONTROL SYSTEM
<b>Product Description</b>	Ship's Track Control System comprising ECDIS (Nucleus 5000/6000, Manta, MantaDigital) and Yokogawa PT 500 Autopilot
<b>Specified Standard</b>	Functional Test Standard: IEC 62065 (2002), EN60945 (2002) and IEC 61162-1 (2007)

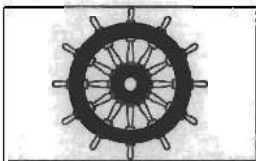
The attached Design Appraisal Document (schedule) forms part of this certificate.

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	2 August 2007	Expiry date	1 August 2012
Certificate No.	MED 0700004	Signed	 M.H.A. Rufaie
Sheet No	1 of	Name	M.H.A. Rufaie For and on behalf of Lloyd's Register Verification LRV EC 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

### 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 "Corrigendum to Council Decision 2004/425/EC of 21 April 2004 on the conclusion of an Agreement between the European Community and the United States of America on the mutual recognition of certificates of conformity for marine equipment."

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 Lloyd's Register Group. Registration number 4929226. Registered office 71 Fenchurch Street, London EC3M 4BS, England.

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Issue number	1

### DESIGN APPRAISAL DOCUMENT

Date	2 August 2007	Quote this reference on all future communications	LDSS/PAS/TAE/W01399533/PAHH/O-83875
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#### ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No.MED 0700004

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 07/00063, Issue 1, Reference: LDSS/PAS/TAE/W01399533/PAHH/O-83875, dated 02 August 2007.

#### TEST REPORTS

All documentation mentioned on Design Appraisal Document 07/00063, Issue 1, Reference: LDSS/PAS/TAE/W01399533/PAHH/O-83875, dated 02 August 2007.

#### CONDITIONS OF CERTIFICATION

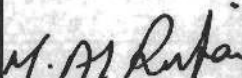


1. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or a Product Verification Process (Module F) of the Marine Equipment Directive. However, Module G may 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 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)

M.H.A. Rufaie  
Senior Surveyor  
For and on behalf of Lloyd's Register Verification  
LRV EC Distinguishing No. 0038

Part 13

Subject: Navigation equipment  
 Product: Track Control System (A.1/4.33)

Producer	Product and Type	Details of Approval	Specified Standard	Remarks	Cert. No.
Kelvin Hughes Limited, New North Road, Hainault, Ilford, Essex, IG6 2UJ, United Kingdom (UK).	Ship's Track Control System comprising EUDIS (Nucleus 5000/6000, Manta, MantaDigital) and Yokogawa PT 500 Autopilot (A.1/4.33)	Track Control System	Functional Test Standard: IEC 62065 (2002), EN60945 (2002) and IEC61162-1 (2007)	Expires: 1 August 2012	MED 0700004

-2 AUG 2007  
 MHZ