

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 equipment requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC, 2002/84/EC and 2008/67/EC subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer Kelvin Hughes Limited

Address New North Road
Hainault
Ilford
Essex, IG6 2UR
United Kingdom (UK)

Annex A1 Item A.1/4.33 - TRACK CONTROL SYSTEM
USCG Category Number 165.112 - TRACK CONTROL

Product Type SHIP'S TRACK CONTROL SYSTEM

Product Description Ship's Track Control System comprising ECDIS (Nucleus 5000/6000, Manta 1700, 2000, 2300 and MantaDigital) and EMRI SEM 200 Autopilot

Specified Standard 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 11 November 2008 Expiry date 10 November 2013



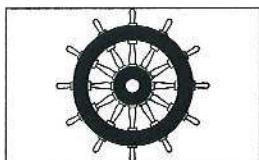
Certificate No. MED 0500018/M1 Signed



Sheet No 1 of 3 Name P.A. Huntley-Hawkins
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.



0038/yy

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.

*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. *



Lloyd's Register Verification Limited

71 Fenchurch Street, London, EC3M 4BS

Telephone 020 7423 2940 Fax 020 7397 4246

Email *dcg-stat@lr.org*

Page	2 of 3
Document number	MED 0500018/M1
Issue number	1

DESIGN APPRAISAL DOCUMENT

CERTIFIED COPY

Date 11 November 2008	Quote this reference on all future communications LDSS/TA/ETS/W01911185/PAHH/O-101135
--------------------------	--

ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No.MED 0500018/M1

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 the following Design Appraisal Documents:

03/00037, reference MSG/DAPP/ECE/TA/W00143370/PAHH/O-31754, dated 01 April 2003

03/00037(E1), reference MSG/DAPP/ECE/TA/W00366661/PAHH/O-40437, dated 11 November 2003

03/00037(E2), reference LPA/DAPP/ECE/TA/W00600743/PAHH/O-53752, dated 08 December 2004

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 USCG Approval Category 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 "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".

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.

3. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place.



Lloyd's Register Verification Limited

71 Fenchurch Street, London, EC3M 4BS

Telephone 020 7423 2940 Fax 020 7397 4246

Email dcg-stat@lr.org

Page	3 of 3
Document number	MED 0500018/M1
Issue number	1

CERTIFIED COPY

DESIGN APPRAISAL DOCUMENT

Date 11 November 2008	Quote this reference on all future communications LDSS/TA/ETS/W01911185/PAHH/O-101135
--------------------------	--

PLACE OF PRODUCTION

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

Peter Huntley-Hawkins
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038