

## 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, 2002/84/EC, 2008/67/EC, 2009/26/EC, 2010/68/EU, 2011/75/EU, 2012/32/EU, 2013/52/EU and 2014/93/EU, subject to any conditions in the Design Appraisal Document attached hereto.

<b>Manufacturer</b>	Praxis Automation Technology BV
<b>Address</b>	Zijldijk 24a 2352 AB Leiderdorp The Netherlands
<b>Annex A1 Item</b>	A.1/4.35 Radar equipment CAT 2 & A.1/4.45 Chart facilities for shipborne radar
<b>Product Type</b>	Mega-Guard ECDIS Marine Personal Computer including Mega-Guard Tracker-ball, Operator Keyboard, 19" Flat screen TFT and 23" Flat screen TFT monitors.
<b>Software Version</b>	Praxis software release 2014-06-28 update 4 Praxis Integrated Bridge Software release MFD4142 Version 2.00.xxx
<b>Product Description</b>	Radar equipment with automatic radar plotting aid (ARPA) also for high-speed craft
<b>Specified Standards</b>	IMO Resolutions: A.278(V11), A.694(17), A.823(19), MSC.191(79), MSC.192(79) IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162-1 (2010), 61162-2 (1998) IEC 62288 Ed 1.0 (2008), IEC 62388 Ed 1.0 (2007)

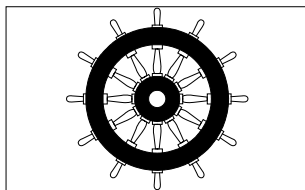
The attached Design Appraisal Document (schedule) forms part of this certificate.

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	16 February 2015	Expiry date	30 December 2019
Certificate No.	MED 1100005/M2	Signed	 Lloyd's Register Verification Ltd
Sheet No	1 of 3	Name	P.A. Huntley-Hawkins
			 Lloyd's Register
			<small>LR927.2013.12</small> 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 certificate is issued under the authority of the MCA.**

Lloyd's Register Verification Limited (Reg. no. 4929226) is a limited company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK.  
A subsidiary of Lloyd's Register Group Limited.



Lloyd's  
Register

## Lloyd's Register Verification Limited

Marine Technology & Engineering Services

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Document number MED 1100005/M2
Issue number 1

### DESIGN APPRAISAL DOCUMENT

Date 16 February 2015	Quote this reference on all future communications MTES/ETS/AO/PAHH/WP20202028/W03933613
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#### ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1100005/M2

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

Form 2571	12.11.2014
Email confirmation of RFS	04.12.2014
LRQA ISO 9001:2008 Quality Management System Certificate No. RQA657813	01.09.2012
DNV EC Type Examination Certificate No. MED-B-8334	26.04.2013
Praxis email confirming compliance with IEC 60945 Corrigendum 1 (2008)	29.01.2015
Transas email confirming awareness of forthcoming changes to IHO standards	21.01.2015

Documentation as previously listed in Design Appraisal Document MED 1100003 and MED 1100003/M1

#### 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). The wheelmark cannot be affixed to the product until a conformity assessment module is in place.
2. 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.

#### SOFTWARE VERSION

Praxis software release 2014-06-28 update 4  
Praxis Integrated Bridge Software release MFD4142  
Version 2.00.xxx

#### STANDARDS NOT APPLICABLE

The following MED specified standards do not apply to this product:  
IEC 61162-3 ed 1.1 Consol. with am1 (2010-11) - Part 3: Serial data instrument network  
IEC 61162-3 ed 1.0 (2008-05) - Part 3: Serial data instrument network  
IEC 61162-3 am1 ed. 1.0 (2010-06) Amendment 1 - Part 3: Serial data instrument network  
IEC61162-450 ed 1.0 (2011-06) - Part 450: Multiple talkers and multiple listeners - Ethernet interconnection



Lloyd's Register

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### PLACE OF PRODUCTION

Praxis Automation Technology BV  
Zijldijk 24a  
2352 AB Leiderdorp  
The Netherlands

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

 <b>Lloyd's Register Verification Ltd</b>	
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LRV 03/12  
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