

## 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 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 and 2009/26/EC subject to any conditions in the Design Appraisal Document attached hereto.

<b>Manufacturer</b>	Praxis Automation Technology BV	
<b>Address</b>	Willem. Barentzstraat 1 2315 TZ Leiden Netherlands, The	
<b>Annex A1 Items</b>	A.1/4.30 Electronic chart display and information system (ECDIS)	
<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>Product Description</b>	Electronic Chart Display & Information System.	
<b>Specified Standard</b>	IEC 60945 (2002) IEC 61174 (2008)	IEC 61162 Series IEC 62288 Ed.1.0(2008)

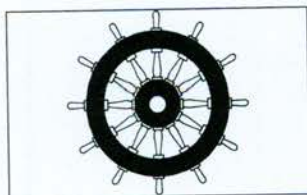
The attached Design Appraisal Document (schedule) forms part of this certificate.

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	12 May 2011	Expiry date	30 December 2014
Certificate No.	MED 1100003	Signed	
Sheet No	1 of 3	Name	A.M. Anderson 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 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.\*

**DESIGN APPRAISAL DOCUMENT**

Date 12 May 2011	Quote this reference on all future communications LDSO/ETS/MED/SDC/WP2121526
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**ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1100003**

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**

Request form	12 Feb 2010
WI - PI-02 Development Guidelines (Rev 7)	26 May 2006
Dare 17025 Accreditation Certificate	21 May 2007
Sperry Marine Invoice	16 April 2010
Praxis Connection Box X-Band (N10.00173-M11)	13 Oct 2010
Praxis Connection Box S-Band (NI10.00173-M11)	13 Oct 2010
Transas SW numbers	27 Sept 2005
MEGA-GUARD 30kW S-Band Layout (N10.00172-C11)	9 Dec 2010
Mega-Guard 10kW X-Band Layout (NI10.00171-C01)	9 Dec 2010
DERA Test Report	Undated
QinetiQ Certificate of Test (QinetiQ/D&TS/SES/TC0609653)	24 July 2006
QinetiQ Module B Certificate (QQ-MED-13/09/01R)	11 Aug 2009

**TEST REPORTS**

Praxis Type Approval EMC Test Report (Rev 10)	31 July 2009
Dare EMC Test Report (09C00181RPT02)	23 Feb 2009
DNV Technical Report (2008-3539)	5 Dec 2008
Navi Planner Test Report	1 July 2010
Transas ECDIS Upgrade Test Report	31 May 2007
Praxis FAT Test Report Amel 458	17 Jun 2010
DERA Type Test Report (DERA/SS/WI/TT-22/97)	Oct 1998
Praxis MED IEC 61174 Test Report	18 Mar 2011
Praxis MED Approval Test Mega-Guard	9 Mar 2011
Praxis Mega Guard Environmental Tests for 6001	1 Oct 2003
TNO EMC measurements PC and Monitor	Undated
Praxis Mega-Guard Environmental Test Report	2 Aug 2005
TNO Environmental Compliance - 6001 ARPA Radar PC (05042503.R01)	13 June 2005
DNV TRANSAS MODULE B Certificate (MED-B-6103)	22 April 2010

**CONDITIONS**

Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Modules 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.

Each item, batch or lot of 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.

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### DESIGN APPRAISAL DOCUMENT

Date 12 May 2011	Quote this reference on all future communications LDSO/ETS/MED/SDC/WP2121526
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#### Software Version

PRAXIS software release 13-06-2009 database update 1  
Praxis Integrated Bridge Software release MFD 2527  
Version 2.00.012 (b2527) + patch b2527 to b2540

#### PLACE OF PRODUCTION

Praxis Automation Technology BV  
Willem. Barentzstraat 1  
2315 TZ Leiden  
Netherlands, The


A.M. Anderson  
Electrotechnical Systems  
London Design Support Office  
Lloyd's Register EMEA  
Email: electrotechnical@lr.org

Part 13

Subject: Navigation equipment  
 Product: A.1/4.30 Electronic Chart Display & Info System ECDIS with backup, and raster chart display (RCDS)

Producer	Product and Type	Details of Approval	Specified Standard	Remarks	Cert. No.
Praxis Automation Technology BV, Willem. Barentzstraat 1, 2315 TZ Leiden, Netherlands, The.	A.1/4.30 Electronic chart display and information system (ECDIS)  Mega-Guard ECDIS Marine Personal Computer including Mega-Guard Trackerball, Operator Keyboard, 19" Flat screen TFT and 23" Flat screen TFT monitors.		IEC 60945 (2002) IEC 61162 Series IEC 61174 (2008) IEC 62288 Ed.1.0(2008)	Expires: 30 December 2014	MED 1100003

AMVA  
 12/5/2011