

国船级社

CHINA CLASSIFICATION SOCIETY

证书格式号/Form: T01.00-

LD000032

型式认可证书

CERTIFICATE OF TYPE APPROVAL

证书编号/Certificate No. LD05T00005

兹证明本证书所述制造厂生产的下列产品能够满足下面列明认可标准的要求。

This is to certify thathe following products produced by the manufacturer stated in the certificate can meet the requirements of the approval standards listed below.

认可产品/Product Approved

简易船载航行数据记录仪

Simplified Voyage Data Recorder

制造厂/Manufacturer

KELVIN HUGHES LTD

KELVIN HUGHES LTD

NEW NORTH ROAD, HAINAULT, IFFORD, ESSEX NEW NORTH ROAD, HAINAULT, IFFORD, ESSEX

认可标准/Approval Standard

1.IF.C60945FD.3.0.(1996-11)

2.IEC61162-1ED.2.0(2000-07

3.MSC.163(78) MSC.163(78)

4.IEC PAS 61996-2 "Part 2, Simplified Voyage Data Recorder(S-VDR) IEC PAS 61996-2 "Part 2, Simplified Voyage Data Recorder(S-VDR)

证书有效期 d until

2009年11月21日 / Nov. 21, 2009

发证机构 Issued by

签发日期

2005年11月22日

Date

Nov. 22, 2005

本证书根据中国船级社 (产品检验反则) 校 证书均领由本社盖章方为有效。证书复印件 有疑问时,可以向我社检验机构客询。 [华规定签发,关于证书的有关规定见本证书页得面的表明。当本证书包括多页纸张时、则所有证书页为一个整体、必须同时使用。每一页 任何单位和个人均不应摘录或节选本证书的部分内容,本认可证书不代表本社对实物产品质量的最终确认。有关各方判所特证书的真实性

This Certificate is stated parameter the Regulations for Survey of Marine Products and related procedures of the Society. Refer to the back of the certificate for detailed requirements of the certificate. When the certificate consists of more than one page, all pages of the certificate as a whole and are used simulaneously. No certificate pages is valid without bearing the stamp of the Society and no copied form of the certificate is regarded as valid. Any part of the certificate is not—be extracted or abridged by any form. This approval certificate does not continue the final confirmation of the Society about the quality of the actual product. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.

中国船级社总部 CCS headquarters: 北京市王府井太新99号世纪大厦A库

邮编: 190006 主括/Tel: - 86(10) 83136633 (44/Pax) - 86(10) 65130188

A Bldg Century Square, 99 Wangfujing Avenue, Beljyus innues, F. R CHINA

Mch. Web Site: http://www.ccs.ors.cn

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本地检验机构/CCS Lared Office: 中国影響社伦敦力事处 CCS Leadon Office 电话 Lety 9051-929-7663562转真-Paki D541-020-76635821

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产品明细/Product Description

简易船载航行数据记录仪/Simplified Voyage Data Recorder

Model

: Manta Digital S VDR

Power supply

: See Below

The system consists of

: See Below

批准的图纸和设计计算书/ Approved Drawings and Design Calculations

图纸批准号/ Drawings Approval :

LDP02420005

图纸或技术文件编号/ No. of Drawings and/or Technical Documents

产品认可试验报告/Approval Test Report

试验报告编号/Test Report No.

QQ-TAN-01/04-01R

试验报告日期/Test Report Date:

2004-12-20

试验单位/Laboratory:

QinetiQ

:

:

试验单位地址/ Tost Address:

Ively Road, Farnborough, Hampshire GU14 OLX

产品适用范围/Application of the Product

Ships engaged on international voyages.

认可保持条件/ Maintenance Requirements of Approval

型式认可后,如果产品及其重要零部件的设计、所用材料或制造方法有所改变,且影响到产品的主要特性、特征; 则产品的性能指标有所更改,且超过认可的范围,则有关图纸和文件应经检验机构审批。并在检验机构认为必要时,经本社检验人员见证有关试验和进行检查,经本社检验人员见证有关试验和进行检查。

After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.

认可后的产品检验方式/ Method of product inspection after approval

认可后检验方式定为: 出厂检验。由木社检验人员在每件或每批产品处于完工阶段或出厂前,到工厂审查有关产品的质量记录,并对产品进行逐件或油样检验,认为结果满意后在产品上加以本社检验标志,并颁发产品证书或签署等效证明文件。

The method of INSPECTION REPORE DELIVERY is used for this product after type approval. Coon completion or prior to the delivery of each piece or batch of products, the surveyor to the Society will go to the manufacturer to examine the quality records of the given product(s) and inspect them piece by piece or by sampling, brand the Society's inspection marking on the product(s) where the results are satisfactory and issue the product certificate or equivalent document.

其他/ Others

The system consists of

1) Data Acquisition Unit 2) Protective capsule

(VDR-A12);

(VDR-A15): (VDR-49);

Remote Status and Alarm Module Interior Microphone Units Exterior Microphone Units

(VDR-A6)

3) 6) Data Interface Unit (VDR-A7)

Swith Interface Unit

(VDR-A1) (VDR A4-1)

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******本证书正文完/ End of Test*****

Technical Characteristics

PARAMETER	PROVISION	COMMENT
IEC 61162-1 SERIAL (NMEA) PORTS	16	Conformity to IEC 61162-1:2000. Inputs are configurable to IEC 61162-2:1998 for AIS. Message – VDM, VDO ALR, TXT. Designated ZDA & GGA/GLL message can be alarmed. Presence check on other messages.
ANALOGUE SIGNAL PORTS	Up-to 16 per DIU	Provision made by inclusion of VDR-A4 external data interface unit for Voltage, Current and Closing –contact inputs. Can also take pulse log and Gyrocompass
RADAR VIDEO PORT	2	RGB + H/V Sync or Composite Sync available, VESA DMTS standards to 1280 x 1024 at 85Hz are covered. Presence check and alarm
BRIDGE AUDIO CHANNELS	Up to 12 microphones	Proprietary. 4 recording channels each of up to 3 microphones. Acoustic integrity check every 12 hrs
RADIOCOMMS AUDIO CHANNELS	2	Transmit & Receive inputs (600 Ω /0dBm) on channels.
FLOAT FREE	No	All protective capsules used are for fixed deck installation.
RECORDING DURATION	>12 hours	Parallel recording onto removable Hard-Disk, Protective capsule memory may be downloaded to hard disk.
RESERVE POWER	2 Hours	From internal batteries. All functional inputs recorded during reserve power operation.
TEMPERATURE RANGE Exposed & IEC 945 CLASS Protected	-25°C to +70°C -15°C to +55°C	Protective Capsules, Exterior Microphone Units All other units
POWER SOURCE	110/220V AC 24V DC	Power supply input to VDR-A12 is AC only. VDR-A12-1 automatic AC & DC switching

