



中国船级社
CHINA CLASSIFICATION SOCIETY

证书格式号/Form: T01.02-
GZ000085

型式认可证书
CERTIFICATE OF TYPE APPROVAL

证书编号/Certificate No. NJ18T00082_02

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 that the 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

船载航行数据记录仪

SHIPBORNE VOYAGE DATA RECORDER

制造厂/ Manufacturer

江苏海兰船舶电气系统科技有限公司

Jiangsu Highland Integration Technology Co., Ltd.

江苏省南通市苏通科技产业园清枫路199号

No.199, Qingfeng Road, Sutong Science Park, Nantong City, Jiangsu

附加标志/ Notations

无/Nil.

认可标准/ Approval Standard

- 1.IMO A.694(17) 作为全球海上遇险和安全系统 (GMDSS) 组成部分的船载无线电设备和电子助航设备的一般要求
IMO A.694(17): General Requirements for Shipborne Radio Equipment Forming Part of the Global Maritime Distress and Safety System (GMDSS) and for Electronic Navigational Aids
- 2.MSC.333(90)通过经修订的《船载航行数据记录仪 (VDR) 性能标准》
MSC.333(90) Adoption of Revised Performance Standards for Shipborne Voyage Data Records(VDRs)
- 3.IEC 60945:2002/COR1:2008 《船用航行和无线电通信设备及系统-通用要求-试验方法和试验结果的要求》
IEC 60945:2002/COR1:2008 Maritime Navigation and Radiocommunication Equipment and Systems –General Requirements – Methods of Testing and Required Test Results

证书有效期至/ This Certificate is valid until

2022年5月19日 / May. 19, 2022

发证机构 中国船级社江苏分社
Issued by CCS Jiangsu Branch

签发日期 2018年7月17日
Date Jul. 17, 2018

本证书根据中国船级社《钢质海船入级规范》及有关程序规定签发。关于证书的有关规定见本证书背面的说明。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。每一页证书均须由本社盖章方为有效。证书复印件无效。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个体产品质量的检验。有关各方对所持证书的真实性有疑问时，可以向本社检验机构咨询。
This Certificate is issued pursuant to the Rules for Classification of Sea-going Steel Ships 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 are taken as a whole and are used simultaneously. No certificate page 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 to be extracted or abridged by any unit or individual in any form. This approval certificate does not constitute the inspection of the Society about the quality of the unit/batch product. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.



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NJ72877905
N: 17664130

产品明细/ Product Description

船载航行数据记录仪/SHIPBORNE VOYAGE DATA RECORDER	
型号/Model	: HLD-VDR600
电源/Power Supply	: AC110/220V;50/60Hz;DC24V
备用电源/Reserve Power Source	: HLD-RPS600
记录时间/Recording Period	: 固定数据存储单元48小时/自浮数据存储单元48小时/长期数据存储单元720小时 Fixed Protective Data Recording Capsule 48Hours/Float-free Data Recording Capsule 48Hours/Long-term Data Recording Unit 720Hours
软件版本号/Software Version	: V1.0
罗经安全距离/Compass Safe Distance	: 200cm(标准罗经);105cm(舵罗经) 200cm (standard compass);105cm (steering compass)
系统组成/System Components	: 见附页 See additional page
外壳防护等级/IP Code	: 见附页 See additional page

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

图纸批准号/ Drawings Approval No. : NP13A02465、NP18A00313

产品认可试验报告/ Approval Test Report

试验报告编号/Test Report No.	: A13-081-ZC-01; 02
试验报告日期/Test Report Date	: 2014-03-14
试验单位/ Laboratory	: 上海仪器仪表自控系统检验测试所 Shanghai Inspection and Testing Institute of Instruments and Automatic Systems
试验单位地址/ Test Address	: 中国上海漕宝路103号 103 CaoBao Road, Shanghai China
试验报告编号/Test Report No.	: XDsm2014-0205(1/2)
试验报告日期/Test Report Date	: 2014-03-13
试验单位/ Laboratory	: 中国计量科学研究院 National Institute of Metrology
试验单位地址/ Test Address	: 北京市北三环东路18号 No18. Bei San Huan Dong Lu, Beijng, P. R. China.
试验报告编号/Test Report No.	: KS-2014-04100
试验报告日期/Test Report Date	: 2014-04-10
试验单位/ Laboratory	: 中国科学院声学计量测试站 Acoustical Measuring_Testing Station, Chinese Academy of Sciences
试验单位地址/ Test Address	: 北京海淀区北四环西路21号 No21.Bei Si Huan Xi Lu, Hai Dian District, Beijing, P. R. China
试验报告编号/Test Report No.	: 试字第Y(H)-2014-001;002;003;015号
试验报告日期/Test Report Date	: 2014-02-20
试验单位/ Laboratory	: 陕西千山航空电子有限责任公司检测中心 Test Center of Shanxi Qianshan Avionics Co.,Ltd
试验单位地址/ Test Address	: 陕西省汉中市汉台区铺镇正街2号G16 No. 2 G16, Puzhenzheng street, hantai district, hanzhong city, shanxi province
试验报告编号/Test Report No.	: JECZ S20140317
试验报告日期/Test Report Date	: 2014-03-21
试验单位/ Laboratory	: 中国电科集团公司第三十六研究所计量测试中心 Measure and Test Center of No.36 Research Institute of China Electronic Technology Group Corporation
试验单位地址/ Test Address	: 浙江省嘉兴市洪兴路387号 No.387 Hongxing Road Jiaxing, Zhejiang, China
试验报告编号/Test Report No.	: HLD-CG-0401
试验报告日期/Test Report Date	: 2014-04-03
试验单位/ Laboratory	: 北京海兰信数据科技股份有限公司 Beijing Highlander Technology Co.,Ltd
试验单位地址/ Test Address	: 北京市海淀区中关村东路1号清华科技园C座1902室



		C1902, SPTower, Tsinghua Science Park, No.1 Zhongguancun East Road, Haidian District, Beijing, China
试验报告编号/Test Report No.	:	14/104
试验报告日期/Test Report Date	:	2014-04-10
试验单位/ Laboratory	:	OMEGA检测中心 PUBLIC ENTERPRICE TESTING CENTER OMEGA
试验单位地址/ Test Address	:	乌克兰塞瓦斯托波尔市POB37号 P. O. B No. 37, Sevastopol, 99053, Ukraine
试验报告编号/Test Report No.	:	TR-VDR600-0629-001
试验报告日期/Test Report Date	:	2018-04-25
试验单位/ Laboratory	:	江苏海兰船舶电气系统科技有限公司 Jiangsu Highland Integration Technology Co.,Ltd
试验单位地址/ Test Address	:	江苏省南通市苏通科技产业园清枫路199号 No.199, Qingfeng Road, Sutong Science Park, Nantong City, Jiangsu

产品适用范围/ Application of the Product

国际和国内航行海船/For International and Domestic Sea-going Ship

认可保持条件/ Maintenance Requirements of Approval

1. 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; 或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, 其结果应能证实仍符合认可条件。
After type approval, if there are changes to the design, materials used or manufacturing method 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. Where 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.
2. 工厂的质量管理体系应保持有效运行, 并且与认可时一致。如果质量管理体系发生改变, 应经原体系认证机构审核并报告本社批准。
The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.
3. 认可证书有效期内, 如果出现可能导致本社取消认可的情况, 工厂应及时采取有效的纠正措施。
Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.
4. 在认可证书有效期内, 本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核, 以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。
Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.
5. 如果属于获得型式认可B 模式证书, 且无需颁发船用产品证书/等效证明文件的情况, 证书获得者应接受本社每年一次的定期审核, 定期审核日为认可证书期满之日对应的每一周年日, 检查工作可在周年日的前后三个月内进行。
If belong to the situation of the product has type approval mode B certificate, and marine product certificate/equivalent document is not necessary, those who have obtained the certificate should be subject to periodical audit every year. The periodical audit should be carried out within 3 months before and after the anniversary date which corresponds to the date of expiry of the relevant.

认可后的产品检验方式/ Method of Product Inspection after Approval

按照规范每批抽样检验的产品/The product inspected by sampling in term of the rules:
认可后的产品检验应由本社验船师根据本社规范规定每批抽样按批准的产品检验计划进行检验, 经检验合格后由本社颁发船用产品证书。
After approval, product inspection should be carried out by sampling by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Marine Product Certificate will be issued by the Society upon satisfactory inspection.

对于原材料和零部件的检验要求/ Inspection Requirements for Materials and Components

产品如下原材料和零部件应由本社认可的制造厂生产/The following materials and components of the product should be manufactured by the factory approved by the Society:自浮数据存储单元/Float-free Data Recording Capsule

产品如下原材料和零部件应经本社检验/The following materials and components of the product should be inspected by the Society:无/Nil

产品如下原材料和零部件的制造厂清单, 经本社批准方可变更/The list of manufacturer for the following



materials and components of the product should not be changed without the Society's approval:
蓄电池/Battery; 水下声音信标/Underwater Beacon; 固态硬盘/SSD; SATA硬盘/SATADOM; 电源/Power;
ARM核心处理器/ARM Core Processor

责任声明/Statement of Responsibility

本社的认可不影响、替代与本社授权或检验无关的各方对上述工厂的认可和发证，并且不对与本社授权或检验无关的各方负责，不承担其未经应允而承认、接受本社认可所导致的法律和经济责任。

The approval of the Society does not affect and replace any approval and certification of the manufacturer by any parties that bear no relation with this Society's authorization or survey and therefore takes no responsibility for these parties. The Society does not undertake any legal and economic liabilities arising from accepting this Society's certificate without prior permission from this Society.

其他/Others

本证书由原型式认可证书 (NJ16T00129_02) 变更并换新。

This certificate is modified and renewed from the previous Type Approval Certificate NJ16T00129_02.

本社已审核了产品厂无石棉声明，但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。

The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society. However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

中国船级社江苏分社

CCS Jiangsu Branch

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注：本证书含有附页，共1页

Note: The certificate is attached with 1 additional page(s)



船载航行数据记录仪组成
Shipborne Voyage Data Recorder Components

序号(No)	部件名称(Name of Part)	型号(Type)	防护等级(IP)
1	主机单元(Main Unit)	HLD-MU600	IP22
2	操作单元(Operation Unit)	HLD-OPU600	IP22
3	固定数据存储单元(Fixed Protective Data Recording Capsule)	HLD-PDC600	IP56
4	串口数据采集单元(Serial Data Acquisition Unit)	HLD-DAU600	IP22
5	水下声学信标(Acoustic underwater beacon)	HLD-ULD601 or HLD-ULD602 or HLD-ULD603 or HLD-ULD604	-
6	视频数据采集单元(Video Acquisition Unit)	HLD-VAU600	IP22
7	存储单元接线盒(Capsule Junction Box)	HLD-CJB600	IP56
8	室内麦克风(Indoor Microphones)	HLD-MIC600	IP22
9	室外麦克风(Outdoor Microphones)	HLD-MIC610	IP66
10	长期数据存储单元(Long-term Data Recording Unit)	HLD-LRU600	IP22
11	自浮数据存储单元(Float-free Data Recording Capsule)	HLD-FFC600 or HLD-FFC660	IP56
12	非标数据采集单元(Non-standard Data Acquisition Unit)	HLD-NAU600	IP22
13	电池组 (Battery Pack)	HLD-BTP600 or HLD-BTP660	-
14	静水压力释放器 (Hydrostatic Release Unit)	HLD-HRU600 or HLD- HRU 660	-
15	割线器 (Cable Cutter)	HLD- CCU 660	-

*****本证书附页完/End of additional page*****

