



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
JS26PTB00012\_03

型式认可证书  
CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

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.

地址/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

产品名称/Product

船载航行数据记录仪  
SHIPBORNE VOYAGE DATA RECORDER

附加标志/Notations

无/Nil.

认可标准/Approval Standard

- 国际海事组织大会决议A.694(17)《作为全球海上遇险和安全系统(遇险和安全系统)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 Resolution 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
- 国际海事组织海上安全委员会决议IMO MSC.333(90)《通过经修订的船载航行数据记录仪(VDR)性能标准》  
IMO MSC.333(90) Adoption of Revised Performance Standards for Shipborne Voyage Data Recorders (VDRs)
- 国际海事组织海上安全委员会决议IMO MSC.494(104)决议:《航行记录仪(VDRs)性能标准(MSC.333(90)号决议)修正案》  
IMO MSC.494(104): Amendments to The Performance Standards for Shipborne Voyage Data Recorders (VDRs)(Resolution MSC.333(90))
- 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 2031年03月27日/Mar. 27,2031

发证机构/Issued by 中国船级社江苏分社  
China Classification Society Branch

签发日期/Date 2026年03月16日  
Mar. 16,2026

本证书根据中国船级社规范和相关规定签发。所有证书页为一个整体,必须同时使用。纸质证书每页均须由本社盖章方为有效,电子证书含数字签名方为有效,本证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关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。本证书凡是未注明版本的规范,其(发证时)最新版本适用于本证书。  
This Certificate is issued pursuant to the Rules of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, 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. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices. For Rules with no version indication, their latest version (at the time of issuance of the certificate) applies to the certificate.



Form No: T01.

联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)

UTN:P026-32306616

## 用于/Intended for

船舶/Ships

## 产品明细/Product Description

## 航行数据记录仪 (VDR) /Shipborne Voyage Data Recorder (M0001)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	HLD-VDR600	
软件版本号/Software Version	V2. x	
罗经安全距离/Compass Safe Distance	200cm(标准罗经);105cm(舵罗经)   200cm (standard compass);105cm (steering compass)	
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	
系统组成/System Component	见附页   See additional page	
电源/Power Source	AC110/220V;50/60Hz;DC24V	
备用电源/Reserve Source	HLD-RPS600	
外壳防护等级/Degree of Protection of Enclosure	见附页   See additional page	

## 航行数据记录仪 (VDR) /Shipborne Voyage Data Recorder (M0002)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	HLD-VDR700	
软件版本号/Software Version	V1. x	
罗经安全距离/Compass Safe Distance	115cm(标准罗经);105cm(舵罗经)   100cm (standard compass);105cm (steering compass)	
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	
系统组成/System Component	见附页   See additional page	
电源/Power Source	AC110/220V;50/60Hz;	
备用电源/Reserve Source	HLD-RPS600	
外壳防护等级/Degree of Protection of Enclosure	见附页   See additional page	

## 批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP13A02465, NP18A00313, NP22PPP03336, NP22PPP01870, NP24PPP01446

## 产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : JECZ S20140331

试验报告日期/ Test Report Date : 2014-05-20

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

试验报告编号/ Test Report No. : TR-HLD-VDR600-20220915  
试验报告日期/ Test Report Date : 2022-09-15

试验报告编号/ Test Report No. : TR-HLD-VDR-20220828  
试验报告日期/ Test Report Date : 2022-08-28

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

试验报告编号/ Test Report No. : 14/104  
试验报告日期/ Test Report Date : 2014-04-10

试验报告编号/ Test Report No. : HLD-CG-0401  
试验报告日期/ Test Report Date : 2014-04-03

试验报告编号/ Test Report No. : HLD-VDR600-20220707  
试验报告日期/ Test Report Date : 2022-07-07

试验报告编号/ Test Report No. : 21/890  
试验报告日期/ Test Report Date : 2022-11-07

试验报告编号/ Test Report No. : A22-008-ZC-02  
试验报告日期/ Test Report Date : 2022-06-21

试验报告编号/ Test Report No. : 船检委字ER2022-033号  
试验报告日期/ Test Report Date : 2022-06-25

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

试验报告编号/ Test Report No. : Nr. 23/581  
试验报告日期/ Test Report Date : 2024-09-01

试验报告编号/ Test Report No. : JECZ S202504001  
试验报告日期/ Test Report Date : 2025-06-22

试验报告编号/ Test Report No. : 202407043-2  
试验报告日期/ Test Report Date : 2024-07-15

试验报告编号/ Test Report No. : 2025F52-30-100035  
试验报告日期/ Test Report Date : 2025-06-18

试验报告编号/ Test Report No. : 2504030001  
试验报告日期/ Test Report Date : 2025-04-03

试验报告编号/ Test Report No. : 25032600-0013  
试验报告日期/ Test Report Date : 2025-06-13

试验报告编号/ Test Report No. : JECZ E202507817-001  
试验报告日期/ Test Report Date : 2025-07-29

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

按规范认可后应进行产品检验的产品/The product should be inspected 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 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.

### 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 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. 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.

## 备注/Remarks

HLD-FFC600A COSPAS-SARSAT 型式认可证书号/HLD-FFC600A COSPAS-SARSAT Type Approval Certificate Number:237

HLD-FFC660A COSPAS-SARSAT 型式认可证书号/HLD-FFC660A COSPAS-SARSAT Type Approval Certificate Number:371

HLD-FFC680A COSPAS-SARSAT 型式认可证书号/HLD-FFC680A COSPAS-SARSAT Type Approval Certificate Number:354/1354

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.

本证书由原型式认可证书 (No. JS24PTB00167\_02) 换新并替代原证书。

This certificate is renewed from and supersedes the previous Type Approval Certificate No.

JS24PTB00167\_02.

本产品已依照 IACS UR E26 Rev.1 第6章和 CCS《船舶网络安全指南》(2024) 第1.4节的相关要求申请了船舶网络安全低风险豁免，见“船载计算机系统网络安全低风险声明”(编号:SI25PTCCR129)，该豁免最终应结合船舶实际安装场景获得

CCS 最终批准。

本产品已依照 IACS UR E26 Rev.1 第6章和 CCS《船舶网络安全指南》(2024) 第1.4节的相关要求申请了船舶网络安全低风险豁免，见“船载计算机系统网络安全低风险声明”(编号: JS26PFA00011\_03)，该豁免最终应结合船舶实际安装场景获得 CCS 最终批准。

This product has applied for a low risk exemption for ship cyber security in accordance with the relative requirements of IACS UR E26 Rev.1 chapter 6 and CCS Guidelines for Ship Cyber Security 2024 section 1.4, as stated in the "Statement of compliance with low risk acceptance criteria" (No. JS26PFA00011\_03). The exemption should ultimately be approved by CCS based on the actual installation scenario of the ship.

**中国船级社江苏分社**

**CCS Jiangsu Branch**

注：本证书含有附页，共2页

Note: The certificate is attached with additional 2 page(s)

附页/ Additional Page :

## HLD-VDR600 产品明细/Product Description

序号 No.	主要组成部件 Main Components	部件型号 Part Model	防护等级 IP Grade
1	操作单元/Operation Unit	HLD-OPU600	IP22
2	主机单元/Main Unit	HLD-MU600	IP22
3	串口数据采集单元/Serial Data Acquisition Unit	HLD-DAU600	IP22
4	视频数据采集单元 (选配) /Video Acquisition Unit (Option)	HLD-VAU600	IP22
5	非标数据采集单元/Non-standard Data Acquisition Unit	HLD-NAU600	IP22
6	长期数据存储单元/Long-term Data Recording Unit	HLD-LRU600	IP22
7	自浮数据存储单元/Float-free Data Recording Capsule	HLD-FFC660A or HLD-FFC680A or HLD-FFC600A	IP56
8	固定数据存储单元/Fixed Protective Data Recording Capsule	HLD-PDC600	IP56
9	存储单元接线盒/Capsule Junction Box	HLD-CJB600	IP56
10	室内麦克风/Indoor Microphones	HLD-MIC600	IP22
11	室外麦克风/Outdoor Microphones	HLD-MIC610	IP66
12	水下声学信标/Acoustic underwater beacon	HLD-ULD601 or HLD- ULD602 or HLD- ULD603 or HLD-ULD604	-
13	电池组 Battery Pack	HLD-BTP600 or HLD-BTP660 or HLD-BTP680A	-
14	静水压力释放器 Hydrostatic Release Unit	HLD-HRU600 or HLD- HRU660 or HLD-HRU680A	-

附页/ Additional Page :

## HLD-VDR700 产品明细/Product Description

序号 No.	主要组成部件 Main Components	部件型号 Part Model	防护等级 IP
1	主机单元 (含长期存储介质) /Main Unit (with Long-term recording medium)	HLD-MU700	IP22
2	操作单元/Operation Unit	HLD-OPU700	IP22
3	固定数据存储单元/Fixed Protective Data Recording Capsule	HLD-PDC600	IP56
4	数据采集单元(选配)/Data Acquisition Unit (Option)	HLD-DAU7X0	IP22
5	视频数据采集单元 (选配) /Video Acquisition Unit (Option)	HLD-VAU700	IP22
6	室内麦克风/Indoor Microphones	HLD-MIC600	IP22
7	室外麦克风/Outdoor Microphones	HLD-MIC610	IP66
8	自浮数据存储单元/Float-free Data Recording Capsule	HLD-FFC600A or HLD-FFC660A or HLD-FFC680A	IP56
9	扩展音频采集单元 (选配) /Extended Audio Acquisition Unit	HLD-EAU700	IP22
10	存储单元接线盒/Capsule Junction Box	HLD-CJB600	IP56
11	水下声学信标/Acoustic underwater beacon	HLD-ULD601 or HLD-ULD602 or HLD-ULD603 or HLD-ULD604	--
12	电池组/Battery Pack	HLD-BTP600 or HLD-BTP660 or HLD-BTP680A	--
13	静水压力释放器/Hydrostatic Release Unit	HLD-HRU600 or HLD-HRU660 or HLD-HRU680A	--

数据采集单元可选配置/ Data acquisition unit optional configurations include :

序号 No.	配置/Configurations	部件型号 Part Model
1	64 通道开关输入, 8 通道模拟量输入/64 ports contact input, 8 ports analog input	HLD-DAU700
2	64 通道开关输入, 8 通道 IEC 61162-1/2 输入/64 ports contact input, 8 ports IEC61162-1/2 input	HLD-DAU710
3	64 通道开关输入, 8 通道模拟输入, 8 通道 IEC 61162-1/2 输入/ 64 ports contact input , 8 ports analog input , 8 ports IEC 61162-1/2 input	HLD-DAU720
4	64 通道开关输入, 16 通道串行 IEC 61162-1/2 输入/64 ports contact input , 16 ports IEC 61162-1/2 input	HLD-DAU730
5	8 通道模拟量输入, 8 通道串行 IEC 61162-1/2 输入/8 ports analog input , 8 ports IEC 61162-1/2 input	HLD-DAU740