

中国船级社 CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No. JS21PTB00297

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

智能航行辅助决策系统 Smart Navigation Decision Support System

附加标志/Notations

无/Ni1.

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》(2021)及其修改通报第7篇第1,2章

Chapter 1 and 2, Part Seven of China Classification Society Rules for Classification of Sea-going Steel Ships 2021 and its Amendments

2. 中国船级社《智能船舶规范》 (2020) 第1,2章

Chapter 1 and 2 of China Classification Society Rules for Intelligent Ships 2020

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

产品明细/Product Description

智能航行辅助决策系统/Smart Navigation Decision Support System (M0001)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	HLD-SNS 600	
电源/Power Source	AC220V/DC24V	
系统组成/System Component	详见附页 See additional page	
软件版本号/Software Version	V1. X	

证书有效期至/This Certificate is valid until

2025年06月23日/Jun. 23,2025

发证机构 中国船级社江苏分社 Issued by CCS Jiangsu Branch 签发日期 2021年11月01日 Date Nov. 01,2021

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《企义》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构杂或 节波本证书的部分内容。有关方对所特证书的真实性有疑问时,可以向我社检验机构咨询。
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Form No: 101. 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:P021-05789511



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外壳防护等级/Degree of Protection of	IP22		
Enclosure	11 22		

批准的图纸/Approved Drawings

图纸批准号/Drawings Approval No.: NP18A00837, NP21PPP01975

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No.: HLD-2400XB 试验报告日期/ Test Report Date: 2018-09-27

试验单位/Laboratory: 北京海兰信数据科技股份有限公司 Beijing Highlander Digital Technology Co.,Ltd 试验单位地址/ Test Address: 北京市海淀区地锦路7号院10号楼 Building 10, Yard 7, Dijin Road Haidian District, Beijing

试验报告编号/Test Report No.: JECZ S202011002

试验报告日期/ Test Report Date: 2021-01-18

试验单位/Laboratory: 中国电子科技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

试验报告编号/ Test Report No.: 21AAX3101Y05-90069

试验报告日期/ Test Report Date: 2021-08-27

试验单位/Laboratory: 上海电器设备检测所有限公司 Shanghai Testing & Inspection Institute for Electrical

Equipment Co.,Ltd

试验单位地址/ Test Address: 上海武宁路505号 505 Wuning Road, Shanghai, P.R.China

试验报告编号/ Test Report No.: HLD2400-20211015

试验报告日期/ Test Report Date: 2021-10-15

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: 江苏省南通市经济技术开发区苏通科技产业园清枫路199号 No.199,Qingfeng Road, Sutong Science Park, Nantong, Jiangsu

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.





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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,检查工作应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 date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit shall be done within a time span of three months before and after the annual surveillance date.

备注/Remarks

智能航行辅助决策系统适用智能船舶附加标志N,具有航路设计和优化及辅助避碰功能。/Smart navigation decision support system is used for notations N of intelligent ships and supplies route design, route optimization and collision avoidance function.

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. NJ18T00120) 变更并换新。

ASSIFICATION

This certificate is modified and renewed from the previous Type Approval Certificate No. NJ18T00120.

中国船级社江苏分社 CCS Jiangsu Branch

注:本证书含有附页,共1页

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





产品明细/Product Description

序号	主要组成部件	部件型号	外壳防护等 级
No.	Main Components	Part Model	IP
1	电源转换单元/Power Conversion Unit	HLD-PCU600	IP22
	处理单元/Processor Unit	HLD-MCU200	
		or	
2		HLD-MCU600or	IP22
		HLD-MCU750or	
		HLD-MCU770	
3	网络防护单元/Network protection	HLD-FW600	IP22
	unit	USG63xx Series	IP22
		HLD-DU109 or	
		HLD-DU112 or	
		HLD-DU134 or	
		HLD-DU135 or	
4	显示单元/Display Unit	HLD-DU140 or	IP22
4		HLD-DU141 or	
		HLD-DU161or	
		HLD-DU162or	
		HLD-DU163or	
		HLD-DU164	
5	人机交互单元/Human Interface	HLD-IU600	IP22



