



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
LT21PTB00004

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

Netwave Systems B.V.

地址/Address

Blauw-roodlaan 100, 2718 SJ Zoetermeer, The Netherlands

产品名称/Product

航行数据记录仪 (VDR) 和简易航行数据记录仪 (S-VDR)
Voyage Data Recorder (VDR) and Simplified Voyage Data Recorder (S-VDR)
航行数据记录仪 (VDR)
Shipborne Voyage Data Recorder

认可标准/Approval Standard

1. 1974年国际海上人命安全公约及其修正案第V章第18条、20条
Regulations 18 and 20, Chapter V of International Convention for the Safety of Life at Sea, 1974, as Amended
2. IMO A. 694(17) 决议《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导航设备的一般要求》
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
3. 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)
4. MSC. 163(78) 海安会决议《简易型船载航行数据记录仪性能标准》
MSC Resolution MSC.163(78): Performance Standards for Shipborne Simplified Voyage Data Recorders (S-VDRs)
5. MSC. 214(81) : 通过船载航行数据记录仪 (VDR) 性能标准 (A. 861(20) 决议) 修正案和船载简化航行数据记录仪 (S-VDR) 性能标准 (MSC. 163(78) 决议) 修正案
MSC.214(81) : ADOPTION OF AMENDMENTS TO THE PERFORMANCE STANDARDS FOR SHIPBORNE VOYAGE DATA RECORDERS (VDRS) (RESOLUTION A.861(20)) AND PERFORMANCE STANDARDS FOR SHIPBORNE SIMPLIFIED VOYAGE DATA RECORDERS (S-VDRS) (RESOLUTION MSC.163(78))
6. MSC. 191(79) 海安会决议《船用航行显示器上显示航行信息的性能标准》
IMO Resolution MSC. 191(79): Performance Standards for the Presentation of Navigation Related Information on Shipborne Navigational Displays
7. 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
8. IEC 61996-1: 2013 《海上导航和无线电通信设备及系统-船用航程数据记录仪 (VDR) -第1部分:性能要求、测试方法及所需测试结果》

证书有效期至/This Certificate is valid until 2023年11月24日/ Nov. 24, 2023

发证机构 中国船级社鹿特丹办事处 签发日期 2021年08月25日
Issued by CCS Rotterdam Office Date Aug. 25, 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。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.

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:P021-17411479

IEC 61996-1:2013 Maritime Navigation and Radiocommunication Equipment and Systems - Shipborne Voyage Data Recorder (VDR) - Part 1: Performance Requirements, Methods of Testing and Required Test Results

9. IEC 61996-2 {Ed. 2.0} 2007 《海上导航和无线电通信设备及系统-船载航行数据记录仪 (VDR) -第2部分: 简易航行数据记录仪 (S-VDR) -性能要求、试验方法及要求的试验结果》

IEC 61996-2 {Ed.2.0} 2007, Maritime Navigation and Radiocommunication Equipment and Systems-Shipborne Voyage Data Recorder (VDR)-Part 2: Simplified Voyage Data Recorder (S-VDR)-Performance Requirements, Methods of Testing and Required Test Results

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

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	NW 6000	
系统组成/System Component	Core module/Bridge Control Unit/Float free Capsule/Fixed Capsule/Audio Hub/VHF interface/Analogue Microphone (Internal & External)/Others	
罗经安全距离/Compass Safe Distance	60	cm
记录时间/Recording Period	Protective Data Recording Capsule 48Hours/Float-free Data Recording Capsule 48Hours/Long-term Data Recording Unit 720 Hours	

批准的图纸/Approved Drawings

图纸批准号/Drawings Approval No.: NP15A02169, NP20PPP04426

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No.: BSH/4543/001/4292687/13

试验报告日期/ Test Report Date: 2015-02-25

试验单位/ Laboratory: Federal Maritime and Hydrographic Agency

试验单位地址/ Test Address: Bernhard Nocht Street 78, 20359 Hamburg, Germany

试验报告编号/ Test Report No.: BSH/4543/001/4292687/13-1

试验报告日期/ Test Report Date: 2015-01-29

试验单位/ Laboratory: Federal Maritime and Hydrographic Agency

试验单位地址/ Test Address: Bernhard Nocht Street 78, 20359 Hamburg, Germany

试验报告编号/ Test Report No.: BSH/4543/001/4292938/15

试验报告日期/ Test Report Date: 2015-08-06

试验单位/ Laboratory: Federal Maritime and Hydrographic Agency

试验单位地址/ Test Address: Bernhard Nocht Street 78, 20359 Hamburg, Germany

试验报告编号/ Test Report No.: BSH/4612/429/0091/05

试验报告日期/ Test Report Date: 2007-02-22

试验单位/ Laboratory: Federal Maritime and Hydrographic Agency

试验单位地址/ Test Address: Bernhard Nocht Street 78, 20359 Hamburg, Germany

试验报告编号/ Test Report No.: 0026-H0203-0000211537

试验报告日期/ Test Report Date: 2021-06-14

试验单位/ Laboratory: Thales Nederland B.V.

试验单位地址/ Test Address: Zuidelijke Havenweg 40 : 7554RR Hengelo, the Netherlands

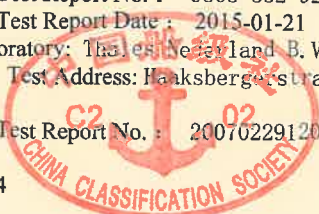
试验报告编号/ Test Report No.: 9505 332 926XX 001

试验报告日期/ Test Report Date: 2015-01-21

试验单位/ Laboratory: Thales Nederland B.V.

试验单位地址/ Test Address: Haksbergestraat 42, 7554PA Hengelo, the Netherlands

试验报告编号/ Test Report No.: 200702291200



试验报告日期/ Test Report Date : 2007-11-21

试验单位/ Laboratory: Telefication B.V

试验单位地址/ Test Address: Edisonstraat 12a, 6902PK Zevenaar, the Netherlands

试验报告编号/ Test Report No. : 0026-H0203-0000213498

试验报告日期/ Test Report Date : 2021-07-05

试验单位/ Laboratory: Thales Nederland B.V.

试验单位地址/ Test Address: Zuidelijke Havenweg 40 : 7554RR Hengelo, the Netherlands

试验报告编号/ Test Report No. : 454.VDR/Orolia NW6000/1

试验报告日期/ Test Report Date : 2020-07-15

试验单位/ Laboratory: Federal Maritime and Hydrographic Agency

试验单位地址/ Test Address: Bernhard Nocht Street 78, 20359 Hamburg, Germany

试验报告编号/ Test Report No. : BSH/4612/4291266/09

试验报告日期/ Test Report Date : 2013-03-01

试验单位/ Laboratory: Federal Maritime and Hydrographic Agency

试验单位地址/ Test Address: Bernhard Nocht Street 78, 20359 Hamburg, Germany

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。

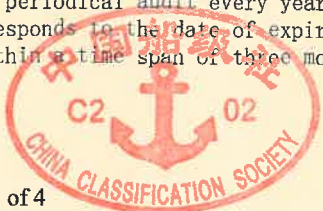
Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.

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.

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

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. LT19PTB00006) 变更并替代原证书。

This Certificate is modified from and supersedes the previous Type Approval Certificate No. LT19PTB00006.

Main Components of NW 6000:

Core Module: NW6000

Bridge Control Unit: NW6010

Audio Hub: NW6031

Analogue Microphone, interior and exterior: NW6030

WaveNet Buscoupler: NW6410

Float Free Capsule: NW6880

Hardened Fixed Recording Medium (Capsule): NW6860

VHF interface: NW6060

Serial Interface Unit: NW64208/NW64216

Video Interface 4 channel: NW6044

Analogue Interface Unit: NW64404/NW64408/NW64412

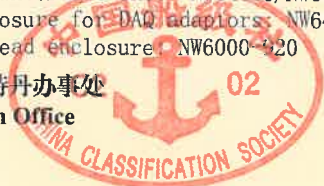
Digital Interface Unit: NW64308/NW64316/NW64324

DIN enclosure for DAQ adaptors: NW64900

CM bulkhead enclosure: NW6000-320

中国船级社鹿特丹办事处

CCS Rotterdam Office





COPY

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CERTIFICATE OF TYPE APPROVAL

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地址/Address

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产品名称/Product

航行数据记录仪 (VDR) 和简易航行数据记录仪 (S-VDR)
Voyage Data Recorder (VDR) and Simplified Voyage Data Recorder (S-VDR)
航行数据记录仪 (VDR)
Shipborne Voyage Data Recorder

认可标准/Approval Standard

1. 1974年国际海上人命安全公约及其修正案第V章第18条、20条
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MSC Resolution MSC.163(78): Performance Standards for Shipborne Simplified Voyage Data Recorders (S-VDRs)
5. MSC. 214 (81) : 通过船载航行数据记录仪 (VDR) 性能标准 (A. 861 (20) 决议) 修正案和船载简化航行数据记录仪 (S-VDR) 性能标准 (MSC. 163 (78) 决议) 修正案
MSC.214(81): ADOPTION OF AMENDMENTS TO THE PERFORMANCE STANDARDS FOR SHIPBORNE VOYAGE DATA RECORDERS (VDRS) (RESOLUTION A.861(20)) AND PERFORMANCE STANDARDS FOR SHIPBORNE SIMPLIFIED VOYAGE DATA RECORDERS (S-VDRS) (RESOLUTION MSC.163(78))
6. MSC. 191 (79) 海安会决议《船用航行显示器上显示航行信息的性能标准》
IMO Resolution MSC. 191(79): Performance Standards for the Presentation of Navigation Related Information on Shipborne Navigational Displays
7. 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
8. IEC 61996-1: 2013 《海上导航和无线电通信设备及系统-船用航程数据记录仪 (VDR) -第1部分:性能要求、测试方法及所需测试结果》

证书有效期至/This Certificate is valid until 2023年11月24日/ Nov. 24, 2023

发证机构 中国船级社鹿特丹办事处
Issued by CCS Rotterdam Office

签发日期 2021年08月25日
Date Aug. 25, 2021

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IEC 61996-1:2013 Maritime Navigation and Radiocommunication Equipment and Systems - Shipborne Voyage Data Recorder (VDR) - Part 1: Performance Requirements, Methods of Testing and Required Test Results
9. IEC 61996-2 {Ed. 2.0} 2007 《海上导航和无线电通信设备及系统-船载航行数据记录仪 (VDR) -第2部分: 简易航行数据记录仪 (S-VDR) -性能要求、试验方法及要求的试验结果》
IEC 61996-2 {Ed.2.0} 2007, Maritime Navigation and Radiocommunication Equipment and Systems-Shipborne Voyage Data Recorder (VDR)-Part 2: Simplified Voyage Data Recorder (S-VDR)-Performance Requirements, Methods of Testing and Required Test Results

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

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	NW 6000	
系统组成/System Component	Core module/Bridge Control Unit/Float free Capsule/Fixed Capsule/Audio Hub/VHF interface/Analogue Microphone (Internal & External)/Others	
罗经安全距离/Compass Safe Distance	60	cm
记录时间/Recording Period	Protective Data Recording Capsule 48Hours/Float-free Data Recording Capsule 48Hours/Long-term Data Recording Unit 720 Hours	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No.: NP15A02169, NP20PPP04426

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No.: BSH/4543/001/4292687/13
试验报告日期/ Test Report Date: 2015-02-25
试验单位/ Laboratory: Federal Maritime and Hydrographic Agency
试验单位地址/ Test Address: Bernhard Nocht Street 78, 20359 Hamburg, Germany

试验报告编号/ Test Report No.: BSH/4543/001/4292687/13-1
试验报告日期/ Test Report Date: 2015-01-29
试验单位/ Laboratory: Federal Maritime and Hydrographic Agency
试验单位地址/ Test Address: Bernhard Nocht Street 78, 20359 Hamburg, Germany

试验报告编号/ Test Report No.: BSH/4543/001/4292938/15
试验报告日期/ Test Report Date: 2015-08-06
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试验单位地址/ Test Address: Bernhard Nocht Street 78, 20359 Hamburg, Germany

试验报告编号/ Test Report No.: BSH/4612/429/0091/05
试验报告日期/ Test Report Date: 2007-02-22
试验单位/ Laboratory: Federal Maritime and Hydrographic Agency
试验单位地址/ Test Address: Bernhard Nocht Street 78, 20359 Hamburg, Germany

试验报告编号/ Test Report No.: 0026-H0203-0000211537
试验报告日期/ Test Report Date: 2021-06-14
试验单位/ Laboratory: Thales Nederland B.V.
试验单位地址/ Test Address: Zuidelijke Havenweg 40 : 7554RR Hengelo, the Netherlands

试验报告编号/ Test Report No.: 9505 332 926XX 001
试验报告日期/ Test Report Date: 2015-01-21
试验单位/ Laboratory: Thales Nederland B.V.
试验单位地址/ Test Address: Haaksbergerstraat 42, 7554PA Hengelo, the Netherlands

试验报告编号/ Test Report No.: 200702291200

试验报告日期/ Test Report Date : 2007-11-21

试验单位/ Laboratory: Telefication B.V

试验单位地址/ Test Address: Edisonstraat 12a, 6902PK Zevenaar, the Netherlands

试验报告编号/ Test Report No. : 0026-H0203-0000213498

试验报告日期/ Test Report Date : 2021-07-05

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试验报告编号/ Test Report No. : 454.VDR/Orolia NW6000/1

试验报告日期/ Test Report Date : 2020-07-15

试验单位/ Laboratory: Federal Maritime and Hydrographic Agency

试验单位地址/ Test Address: Bernhard Nocht Street 78, 20359 Hamburg, Germany

试验报告编号/ Test Report No. : BSH/4612/4291266/09

试验报告日期/ Test Report Date : 2013-03-01

试验单位/ Laboratory: Federal Maritime and Hydrographic Agency

试验单位地址/ Test Address: Bernhard Nocht Street 78, 20359 Hamburg, Germany

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.

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

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. LT19PTB00006) 变更并替代原证书。
This Certificate is modified from and supersedes the previous Type Approval Certificate No. LT19PTB00006.

Main Components of NW 6000:
Core Module: NW6000
Bridge Control Unit: NW6010
Audio Hub: NW6031
Analogue Microphone, interior and exterior: NW6030
WaveNet Buscoupler: NW6410
Float Free Capsule: NW6880
Hardened Fixed Recording Medium (Capsule): NW6860
VHF interface: NW6060
Serial Interface Unit: NW64208/NW64216
Video Interface 4 channel: NW6044
Analogue Interface Unit: NW64404/NW64408/NW64412
Digital Interface Unit: NW64308/NW64316/NW64324
DIN enclosure for DAQ adaptors: NW64900
CM bulkhead enclosure: NW6000-920

中国船级社鹿特丹办事处
CCS Rotterdam Office

