

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.

品牌拥有方/ Licensor

Danelec Marine A/S
Farum, Hovedstaden, Denmark

原始设备制造企业/Original Equipment Manufacture

GPV ASIA (THAILAND) CO.,LTD

834 MOO 4, Bangpoo industrial Estate soi 11-12, Sukhumvit Road, Praksa Muang Dis., Samutprakarn, Thailand

产品名称/Product

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

附加标志/Notations

无/Nil.

认可标准/Approval Standard

- MSC. 494(104): 通过经修订的船载航行数据记录仪 (VDR) 性能标准 (MSC. 333(90) 决议)
MSC.494(104): Amendments to the Performance Standards for Shipborne Voyage Data Recorders (VDRs) (Resolution MSC.333(90))
- 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
- 国际海事组织海安会决议MSC. 191(79) 《船载航行显示器有关航行信息显示的性能标准》
IMO Resolution MSC.191(79) Performance Standards for the Presentation of Navigation-Related Information on Shipborne Navigational Displays
- 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)
- 国际海事组织海安会决议MSC. 466(101) 《对船载航行显示器有关航行信息显示的性能标准 (MSC. 191(79)) 的修订》
IMO Resolution MSC.466(101) Amendments to the Performance Standards for the Presentation of Navigation-Related Information on Shipborne Navigational Displays (Resolution MSC.191(79))
- IEC 61996-1: 2013+AMD1: 2021 《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》
IEC 61996-1:2013+AMD1: 2021 Maritime Navigation and Radiocommunication Equipment and Systems - Shipborne

证书有效期至/This Certificate is valid until 2031年03月17日/ Mar. 17,2031

发证机构 中国船级社曼谷办事处
Issued by CCS Bangkok Office

签发日期 2026年03月18日
Date Mar. 18,2026

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Voyage Data Recorder (VDR) - Part 1: Performance Requirements, Methods of Testing and Required Test Results

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	DM100 VDR G3	
系统组成/System Component	见附页 See Attached Sheet	
电源/Power source	AC 110-220V, 50-60Hz; UPS	
备用电源/Reserve source	VHT 7-5Cs NiMH	
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/内部数据存储单元720小时 Fixed Protective Data Recording Capsule:48 hours/Float-free Data Recording Capsule:48 hours/ Inside Data Recoding Unit :720 hours	
罗经安全距离/Compass safe distance	见附页 See Attached Sheet	
软件版本号/Software Revision	V3. xx	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP14A02448, NP18PPP00288, NP25PPP04895

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : DANAK-19/14081 Rev. A
 试验报告日期/ Test Report Date : 2014-06-03
 试验单位/ Laboratory: DELTA: Danish Electronics, Light and Acoustics
 试验单位地址/ Test Address: Venlighedsvej 4, D-2970 Hørsholm, Denmark

试验报告编号/ Test Report No. : BSH/4543/001/4292645/13-1/2/3
 试验报告日期/ Test Report Date : 2014-06-18
 试验单位/ Laboratory: Danish Technological Institute
 试验单位地址/ Test Address: Gregersensvej, DK-2630 Taastrup, Denmark

试验报告编号/ Test Report No. : BSH/4543/001/4292645/13
 试验报告日期/ Test Report Date : 2014-06-20
 试验单位/ Laboratory: Federal Maritime and Hydrographic Agency
 试验单位地址/ Test Address: Bernhard-Norcht-Str. 78,D-20359 Hamburg, Germany

试验报告编号/ Test Report No. : E13261. 04
 试验报告日期/ Test Report Date : 2014-06-26
 试验单位/ Laboratory: Nemko Group
 试验单位地址/ Test Address: Nemko AS Gaustadalleen 30,P.O.Box 73 Blindern,0314

试验报告编号/ Test Report No. : DM100 VDR-2015
 试验报告日期/ Test Report Date : 2015-05-09
 试验单位/ Laboratory: GPV Asia (Thailand) Co., Ltd.
 试验单位地址/ Test Address: 834 Moo 4 Bangpoo Industrial Eastate Soi 11,12 Sukhumvit Road, Praksa,Muang, Samutprakarn, Thailand

试验报告编号/ Test Report No. : DANAK-19/16011
 试验报告日期/ Test Report Date : 2015-10-28
 试验单位/ Laboratory: DELTA
 试验单位地址/ Test Address: Venlighedsvej 4, 2970 Hørsholm, Denmark

试验报告编号/ Test Report No. : DANAK-19/160112
试验报告日期/ Test Report Date : 2015-12-22
试验单位/ Laboratory: DELTA
试验单位地址/ Test Address: Venlighedsvej 4, 2970 Hørsholm, Denmark

试验报告编号/ Test Report No. : DANAK-19/16106
试验报告日期/ Test Report Date : 2016-01-28
试验单位/ Laboratory: DELTA
试验单位地址/ Test Address: Venlighedsvej 4, 2970 Hørsholm, Denmark

试验报告编号/ Test Report No. : DM100 VDR-2019
试验报告日期/ Test Report Date : 2019-03-01
试验单位/ Laboratory: GPV Asia (Thailand) Co., Ltd.
试验单位地址/ Test Address: 834 Moo 4 Bangpoo Industrial Eastate Soi 11,12 Sukhumvit Road, Praksa,Muang, Samutprakarn, Thailand

试验报告编号/ Test Report No. : DM100 VDR-2022
试验报告日期/ Test Report Date : 2022-08-03
试验单位/ Laboratory: GPV Asia (Thailand) Co., Ltd.
试验单位地址/ Test Address: 834 Moo 4 Bangpoo Industrial Eastate Soi 11,12 Sukhumvit Road, Praksa,Muang, Samutprakarn, Thailand

试验报告编号/ Test Report No. : E21187. 00
试验报告日期/ Test Report Date : 2022-02-10
试验单位/ Laboratory: Nemko Scandinavia AS
试验单位地址/ Test Address: Philip Pedersens vei 11, 1366 Lysaker, Norway

试验报告编号/ Test Report No. : BSH/454. GNSS/TUVSUDLtd/6
试验报告日期/ Test Report Date : 2022-02-08
试验单位/ Laboratory: Federal Maritime and Hydrographic Agency
试验单位地址/ Test Address: Bernhard-Nocht-Str. 78 D-20359 Hamburg Germany

试验报告编号/ Test Report No. : 75950873-01
试验报告日期/ Test Report Date : 2021-11-18
试验单位/ Laboratory: TUV SUD
试验单位地址/ Test Address: Octagon House, Concorde Way, Segensworth North, Fareham, Hampshire, United Kingdom

试验报告编号/ Test Report No. : 75950873-02
试验报告日期/ Test Report Date : 2022-01-11
试验单位/ Laboratory: TUV SUD
试验单位地址/ Test Address: Octagon House, Concorde Way, Segensworth North, Fareham, Hampshire, United Kingdom

试验报告编号/ Test Report No. : 75950873-07
试验报告日期/ Test Report Date : 2022-03-31
试验单位/ Laboratory: TUV SUD
试验单位地址/ Test Address: Octagon House, Concorde Way, Segensworth North, Fareham, Hampshire, United Kingdom

试验报告编号/ Test Report No. : 75950873-08
试验报告日期/ Test Report Date : 2022-03-30
试验单位/ Laboratory: TUV SUD
试验单位地址/ Test Address: Octagon House, Concorde Way, Segensworth North, Fareham, Hampshire, United Kingdom

试验报告编号/ Test Report No. : 75950873-09
试验报告日期/ Test Report Date : 2022-01-28
试验单位/ Laboratory: TUV SUD
试验单位地址/ Test Address: Octagon House, Concorde Way, Segensworth North, Fareham, Hampshire, United Kingdom

试验报告编号/ Test Report No. : DM100 VDR G2-2023
试验报告日期/ Test Report Date : 2023-01-20
试验单位/ Laboratory: GPV Asia (Thailand) Co., Ltd.
试验单位地址/ Test Address: 834 Moo 4 Bangpoo Industrial Eastate Soi 11,12 Sukhumvit Road, Praksa,Muang,

Samutprakarn, Thailand

试验报告编号/ Test Report No. : BSH-454. VDR/011/00001
试验报告日期/ Test Report Date : 2025-06-04
试验单位/ Laboratory: Federal Maritime and Hydrographic Agency
试验单位地址/ Test Address: Bernhard-Nocht-Str. 78, 20359 Hamburg Germany

试验报告编号/ Test Report No. : 125-20563-1 Rev. 1
试验报告日期/ Test Report Date : 2025-06-16
试验单位/ Laboratory: FORCE Technology
试验单位地址/ Test Address: Venlighedsvej 4, 2970 Horsholm, Denmark

试验报告编号/ Test Report No. : 125-02563-2 Rev. 2
试验报告日期/ Test Report Date : 2025-03-10
试验单位/ Laboratory: FORCE Technology
试验单位地址/ Test Address: Venlighedsvej 4, 2970 Horsholm, Denmark

试验报告编号/ Test Report No. : BSH/454. VDR/011/00001-1
试验报告日期/ Test Report Date : 2025-06-17
试验单位/ Laboratory: Federal Maritime and Hydrographic Agency
试验单位地址/ Test Address: Bernhard-Nocht-Str. 78, 20359 Hamburg Germany

试验报告编号/ Test Report No. : DBS15004-10
试验报告日期/ Test Report Date : 2024-04-30
试验单位/ Laboratory: Danelec Marine A/S
试验单位地址/ Test Address: Hoermarken 2, 3520 Farum Denmark

试验报告编号/ Test Report No. : GWD16189
试验报告日期/ Test Report Date : 2025-06-19
试验单位/ Laboratory: Danelec Marine A/S
试验单位地址/ Test Address: Hoermarken 2, 3520 Farum Denmark

试验报告编号/ Test Report No. : DM100 VDR G3-2026
试验报告日期/ Test Report Date : 2026-01-15
试验单位/ Laboratory: GPV Asia (Thailand) Co., Ltd.
试验单位地址/ Test Address: 834 Moo 4 Bangpoo Industrial Estate Soi 11,12 Sukhumvit Road, Praksa,Muang, Samutprakarn, Thailand

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.

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. 在本证书有效期内，品牌拥有方和产品制造企业之间的授权协议的失效将自动导致本证书的失效。

During the period of validity, this certificate will automatically be ineffective in case of the invalidity of the authorization agreement between the licensor and the manufacturer(s).

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.

中国船级社曼谷办事处

CCS Bangkok Office

注：本证书含有附页，共1页

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

系统组成/ The System Components

Basic Components:

No.	Name of Components	Type Designation	Type Designator	Compass Safe Dist.
1	Data Acquisition Unit	DAU	1306355	200cm
2	Bridge Control Panel	BCP	1302379	75cm
3	Bridge Microphone Unit	Indoor: BMU-003	1302646	35cm
		Outdoor:BMU-004	1302647	35cm
		Indoor: BMU-005	1306433	35cm
		Outdoor:BMU-006	1306311	35cm
4	Fixed Capsule MK4 64GB	Capsule MK4 C64	1305078	100cm
5	90 Days Underwater Locating Beacon	AUB-90	2302841	N/A
6	Float-free MK2*	Float-free MK2	1305474	80cm
7	Float-free MK2-HB (Heated bracket)*	Float-free MK2-HB	1305475	80cm

*Note: One of marked units to be installed.

Optional Components:

No.	Name of Components	Type Designation	Type Designator	Compass Safe Dist.
1	Remote Video Interface with PoE-BNC	RVI-PoE	1302358	20cm
2	Remote Video Interface with PoE-DVI-I	RVI-PoE	1302365	20cm
3	Modular Sensor Interface Unit	SIU	1000717	280cm
4	Compact Sensor Interface Unit	CSIU	1301871	250cm
5	Remote Audio Interface (8Ch) with PoE	RAI	1302859	20cm
6	Remote Serial Data Interface	RDI-S	1303223	20cm
7	Remote Digital Data Interface	RDI 24-001D	1303220	20cm
8	Remote Analog Data Interface	RDI 08-001A	1303222	20cm
9	Ext. Extended Backup Disk (NAS 01-001)	NAS	1302370	50cm
10	Fiber optical Ethernet switch	EDS-208A-MM-SC-T	EDS-208A-MM-SC-T	60cm