



EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00006HT
Revision No:
1

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

that the VHF radio installation capable of transmitting and receiving DSC and radiotelephony

with type designation(s)
NVR-3000

issued to

New Sunrise Co., Ltd.
Suzhou, Jiangsu, China

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2023/1667,
item No. MED/5.1. SOLAS 74 as amended, Reg. IV/7, 14 & X/3, IMO Res. A.385(X), A.524(13), A.694(17),
A.803(19), MSC.36(63), MSC.97(73), MSC.191(79), MSC.302(87), IMO MSC/Circ.862, MSC.1/Circ.1460,
COMSAR/Circ.32, ITU-R M.489-2 (10/95), 493-15 (01/19), 541-10 (10/15)

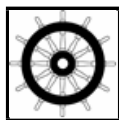
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-04-03**.

Issued at **Hamburg** on **2024-04-04**

DNV local unit:
Shanghai

Approval Engineer:
Steinar Kristensen



Notified Body
No.: **0098**

for **DNV SE**

Mydlak-Röder, Christine
Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: MED 201.DEU

Revision: 2024-02

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Product description

The NVR-3000 radiotelephone with integrated DSC and ch. 70 Watch keeping receiver consists of the following units:

Unit	Type/Part no.	Comment/ Description	Location
Main unit	NVR-3000	VHF simplex/ semi-duplex Radiotelephone, main unit with 7" colour LCD display and the following interfaces: • 24V DC input power • Antenna Units, VHF and DSC • Printer • External speaker • 3x IEC 61162-1 in/ 2x IEC 61162-1 out • VDR Audio • 15V output	Protected
Handset	NHS-200		Protected
Options			
Power Supply	PS-10	24VDC/110VAC/220VAC input, 24VDC Output	Protected
VHF Antenna	NVA100		Exposed
Speaker	NSK-100	External speaker	Protected
Microphone	MC100	External microphone	Protected
Printer	NPT-100	Thermal printer	Protected
Mounting bracket	NFB700B	Flush mount bracket	Protected

Location specifies the location for the units according to IEC 60945 (2002).

Software modules

- NVR-3000

Version

1.0x

Application/Limitation

The following applies for the NVR-3000 VHF:

- Shall be installed according to manufacturer's Operation Manual and Installation Manual.
- Operating frequency range: 156.050-163.275 MHz (Rx), 156.025-157.425 MHz (Tx).
- Modulation methods: Radiotelephone communication: F3E (G3E), DSC/ATIS: F2B (G2B)
- Maximum output power: 25W, 1W rated.
- DSC classification: Class A, integrated channel 70 watch-keeping receiver.
- Utilizes channel-set in accordance with ITU Radio Regulation Appendix 18.

Tests carried out

- Performance tests: ETSI EN 300 338-1 V1.6.1
ETSI EN 300 338-2 V1.5.1
ETSI EN 300 338-7 V1.1.1
- EMC and radio test: ETSI EN 301 843-2 V2.2.1
ETSI ETS 301 925 V1.6.1
- Environmental tests: IEC 60945 (2002) incl. Corr.1 (2008)
- Interface tests: IEC 61162-1 (2016)
- Presentation of information: IEC 62288 (2021)
- Bridge Alert Management: IEC 62923-1 (2018) and IEC 62923-2 (2018)

Type Examination documentation

DNV No	Document ID	Rev	Description
26	NVR-3000_62288_240318	2024-03-18	Report: NSR Marine, IEC 62288 (2021) test report for NVR-3000 VHF radio
25	NSR-NVR3000-TEST240207P	2024-03-27	Report: NSR Marine, NVR-3000 VHF radio, Performance Test Report for ETSI standards update
24	NSR-NVR3000-TEST240129P	2024-03-27	Report: NSR Marine, NVR-3000 VHF radio, BAM Test Report
22	68.189.24.0128.01	2024-03-08	Report: TÜV SÜD, Flicker Test Report NVR-3000 and NVX-3000
13		1.0	Report: DNVGL, IEC 62288 and IEC 60945 tests for NVR-3000
11	NVR-3000 IEC61162	2020-10-15	Report: DNVGL, IEC 61161-1 interface test report for NVR-3000
10	NSR-NVR3000-TEST201014P	2020-10-20	Report: NSR, NVR-3000 VHF Radio Equipment Performance test Report
8	A20-034-WT	2020-10-09	Report: SiTiiAS, EMC and environmental test report for NVR-3000
7	NVR-3000 OM.E	6	Manual: NSR marine, NVR-3000 VHF Radio (GMDSS), Operation Manual & Installation Manual

Marking of product

According to Article 10 of the Council Directive (MED):

- The wheel mark shall be affixed visibly, legibly and indelibly to the product or to its data plate and, where relevant, embedded in its software. Where that is not possible or not warranted on account of the nature of the product, it shall be affixed to the packaging and to the accompanying documents.
- The wheel mark shall be affixed at the end of the production phase.
- The wheel mark shall be followed by the identification number of the notified body, where that body is involved in the production control phase, and by the year in which the mark is affixed.
- The identification number of the notified body shall be affixed by the body itself or, under its instructions, by the manufacturer or the manufacturer's authorised representative.

For specific products, manufacturers may use an appropriate and reliable form of electronic tag instead of, or in addition to, the wheel mark.

Each unit of equipment normally to be installed in a distance of 5 m or less from a standard or a steering magnetic compass shall be clearly marked with the minimum safe distance at which it may be mounted from such compasses. Only for fixed equipment: Alternatively, the minimum safe distance may be given in the equipment manual.