

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL 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-1000, NVR-3000**

Issued to

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

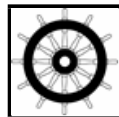
is found to comply with the requirements in the following Regulations/Standards:  
Regulation **(EU) 2020/1170,**  
**item No. MED/5.1. SOLAS 74 as amended, Regulations IV/7, IV/14 & X/3, IMO Res. A.385(X),**  
**IMO Res. A.524(13), IMO Res. A.694(17), IMO Res. A.803(19), IMO Res. MSC.36(63), IMO**  
**Res. MSC.97(73), IMO MSC/Circ.862, IMO MSC.1/Circ.1460, IMO COMSAR Circ.32, ITU-R**  
**M.489-2 (10/95), ITU-R M.493-14 (09/15), ITU-R M.541-10 (10/15)**

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

This Certificate is valid until **2025-11-11.**

Issued at **Hamburg** on **2020-11-12**

DNV GL local station:  
**Shanghai**



for **DNV GL SE**

Approval Engineer:  
**Harald Bluhm**

Notified Body  
No.: **0098**

**Gerhard Aulbert**  
**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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



## Product description

The VHF radio capable of transmitting and receiving DSC and radiotelephony NVR-1000 is designed for marine mobile service which provides function of VHF radiotelephone and digital selective calling.

VHF Radiotelephone                      Type: NVR-1000                      Software version: 1.1x with  
Microphone                                      Type: NVR-1030H and

Optional:  
Thermal Printer                              Type: NPT-100  
VDR connection unit:                      Type: NVC100

Or

VHF Radiotelephone                      Type: NVR-3000                      Software version: 1.x  
Handset    Type: NHS-200

Optional:  
1. Power Supply Unit PS-10 1  
2. VHF Antenna NVA100 2  
3. Thermal Printer NPT-100 1  
4. External Speaker NSK-100 1  
5. Microphone MC100 1  
6. Flush Mount Brackets NFB700

Documentation:  
NVR-1000 Service Manual 20151102  
NVR-1000 User Manual 20151102  
NVR-3000 Operation and Installation Manual NVR-3000 OM.E 20201021-01

## Type Examination documentation

### Tests carried out

IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,  
ETSI EN 301 925 V1.5.1  
ETSI EN 301 033 V1.3.5  
ETSI EN 300 338-1 V1.4.1 (2017-02),  
ETSI EN 300 338-2 V1.4.1 (2017-02),  
IEC 61162-1:2016,  
IEC 62923-1:2018,  
IEC 62923-2:2018.

## Marking of product

According to IEC 60945, Sect.4.9:  
The product to be marked with following information, where practicable:

- Identification of the manufacturer,
- Equipment type number or model identification under which it was type tested,
- Serial number of the unit,
- Compass safe distance.

Alternatively, the marking may be presented on a display at equipment start-up, and in case of fixed equipment compass safe distance may be given in the equipment manual. According to Article 10 of the Council Directive (MED):

- Wheel mark to 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



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account of the nature of the product, it shall be affixed to the packaging and to the accompanying documents.

- Wheel mark to be affixed at the end of the production phase. For specific products, manufacturers may use an appropriate and reliable form of electronic tag instead of, or in addition to, the wheel mark.

END OF CERTIFICATE