

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment (MED) as amended by directive (EU) 2015/559. This Certificate is issued by DNV GL SE based on the notification of the German Federal Ministry of Transport, Building and Urban Development.

## This is to certify:

**That the Voyage data recorder (VDR)**

with type designation(s)  
**NVR-9000**

Issued to

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

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

**Annex A.1, item No. A.1/4.29 and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation V/18, V/20 & X/3, IMO Res.A.694(17), IMO Res.MSC.191(79), IMO Res.MSC.333(90) and 2000 HSC Code 13.**

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

This Certificate is valid until **2021-09-01**.

Issued at **Hamburg** on **2016-09-02**

DNV GL local station:  
**Shanghai CMC**

Approval Engineer:  
**Harald Bluhm**



Notified Body  
No.: **0098**

for **DNV GL SE**

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**Sven Dudzus**  
**Head of Notified Body**

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004.

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 Council Directive 96/98/EC, as amended.

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.

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.

Job Id: **344.1-005878-1**  
Certificate No: **MEDB00001HM**

## Product description

1. Data Acquisition Unit (DAU) with one long-term data recording      Type: NVR9001  
Software version: MCU: 1.xx, DAU: 1.xx, ASU: 1.xx, ACU: 1.xx, LRU: 1.xx
2. Remote Alarm Unit (RAU)      Type: NVR9003  
Software version: RAU: 1.xx
3. Indoor Microphone      Type: NVR9005
4. Outdoor Microphone      Type: NVR9006
5. Fixed Protective Capsule (FPC)      Type: NFP-2000C  
Software version: FPC: 1.xx  
with Junction box      Type: NEB205  
and underwater beacon
6. Float-free Capsule (FFC)      Type: NEB-2000C-VDR  
Software version: FFC: 1.xx  
with Junction box      Type: NEB205
7. Data Extension Unit (DEU)      Type: NVR9002  
Software version: DEU: 1.xx
8. Video Interface Unit (VIU)      Type: NVR9004

## Application/Limitation

None

## Type Examination documentation

Test-reports: NSR-NVR9000-TEST160725P, EMC: Ship Test 2015-041 (Rev. 1.0),  
Ship Test ER 2015-041 (Rev. 1.0), NVR9000\_9065 16 38931\_62288,  
NVR9000\_9065 16 38931\_Interface.  
Manuals: Installation Manual NVR-9000 IM.E 20160724-04, User's Manual NVR-9000 OM.E 20160724-05,  
Service Manual NVR-9000 SM.E 20160719-01, Investigation Authority Manual  
NVR-9000 AM.E 20160725-01.

## Tests carried out

Applicable tests according to IEC 61996-1 (2013), IEC 60945 (2002) including Corr. 1 (2008),  
IEC 62288 Ed. 2.0 (2014) and IEC 61162-1 (2010) including Corr. 1 (2013), -2 (1998) and -450 (2011).

## Marking of product

According to Article 11 and Annex I 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, 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.
- For specific products, manufacturers may use an appropriate and reliable form of electronic tag instead of, or in addition to, the wheel mark.