

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:  
**MEDB00008NZ**

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 Echo-sounding equipment**

with type designation(s)  
**NED-3010**

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/4.6. SOLAS 74 as amended, Regulations V/18, V/19 & X/3, IMO Res. A.224(VII), IMO Res. A.694(17), IMO Res. MSC.36(63), IMO Res. MSC.74(69), IMO Res. MSC.97(73), IMO Res. MSC.191(79), IMO Res. MSC.302(87)**

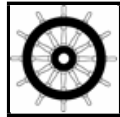
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-02-05**.

Issued at **Hamburg** on **2024-02-06**

DNV local unit:  
**Shanghai**

Approval Engineer:  
**Jörg Rebel**



Notified Body  
No.: **0098**

for **DNV GL SE**

-----  
**Mydlak-Röder, Christine**  
**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) 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

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 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.



## Product description

The echo sounder type NED-3010 consists of following components:

### 1. Necessary components:

No.	Designation	Type designation	Remarks
1.1	Display Unit	NED-3010	2 transducer channels; IP22 (protected) Software version: 1.0.x (x ≥ 9)
1.2	Transducer	NXD-200A and/or	200 kHz, IP67 (submerged)
		NXD-50A	50 kHz, IP67 (submerged)
1.3	Accessories		

### 2. Optional components:

No.	Designation	Type designation
2.1	Junction Box	NED3000J
2.2	Transducer Tank	NXT-100
2.3	Flush Mount Bracket	NFB100

### 3. Interfaces of Display Unit NED-3010:

No.	Description	Interface type	Remarks
3.1	Power supply	24 V DC (9...36 V)	Power consumption < 40 W
3.2	Transducer input	Sensor-specific	2 plugs
3.3	Position and Alert input	IEC 61162-1/-2	1 plug for 2 ports (GNSS and CAM)
3.4	Data output	IEC 61162-1/-2	1 plug for 1 port (VDR and others)
3.5	Printer output	RS-232	1 plug for 1 port
3.6	Alarm output	Relay contact	Normally closed
3.7	Service port	USB port (USB-A)	For software updates
3.8	Ethernet port	IEEE 802.3u (100BASE-T)	Not used, reserved for future use

## Application/Limitation

Installation to be done according to manufacturer's instructions.

## Type Examination documentation

DNV No	Document ID	Rev.	Description
9	68.189.24.0065.01	2024-01-31	Report: TÜV SÜD, Tests acc. to IEC 62288, Clause 7.2.3 with Annex G.2
7	NED-3010 UM.E 20230923	3.0	Manual: NSR, User & Installation for NED-3010
6	NED-3010_62288_230921	2024-02-06	Report: NSR, Tests according to IEC 62288 (2021) and IEC 60945, Clauses 6.1 to 6.4, 13 to 15
5	NED-3010_62923_230916	2024-02-06	Report: NSR, Tests acc. to IEC 62923-1/-2 (2018)
4	NED-3010_61162_230906	2024-02-06	Report: NSR, Tests acc. to IEC 61162-1 (2016) and IEC 61162-2 (1998)
3	202315010969	2023-12-26	Report: JEPSI, Performance tests for NED-3010 acc. to ISO 9875
2	-	2023-10-26	Statement: NSR, Waiver according to IEC 60945, Clause 8.12.1
1	A22-008-ZC-06	2022-09-02	Report: SITIIAS, Tests for NED-3010 according to IEC 60945, Clauses 8.2 to 8.4, 8.7, 8.9, 9 to 12

## Tests carried out

- Environmental and EMC testing: IEC 60945 (2002) incl. Corrigendum 1 (2008)
- Interface testing: IEC 61162-1 (2016) and IEC 61162-2 (1998)
- Presentation testing: IEC 62288 (2021)
- Bridge alert management testing: IEC 62923-1 (2018) and IEC 62923-2 (2018)
- Performance testing: ISO 9875 (2000) incl. Corrigendum 1 (2006) and ISO 9875 (2023)\*

\* Note: For compliance with ISO 9875 (2023), depth alarm with alert ID 3031 and instance number 230 to be configured as alert category B.

### **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.

END OF CERTIFICATE