

# QS - CERTIFICATE OF ASSESSMENT - EC (MODULE D)

Certificate No:  
**MEDD00002CD**

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

## This is to certify:

**That the Quality System for the products**

with type designation(s) as specified in the Appendix to this Certificate

Issued to

**Furuno Electric Co., Ltd.**  
**Nishinomiya, Hyogo Pref, Japan**

is found to comply with the applicable requirements.

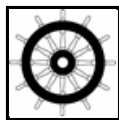
The quality system has been assessed with respect to the procedure of conformity assessment described in Annex II, Module D in the directive 2014/90/EU and regulation (EU) 2022/1157.

This Certificate is valid until **2028-02-16**.

Issued at **Høvik** on **2023-02-17**

DNV local unit:  
**Kobe**

Approval Engineer:  
**Steinar Kristensen**

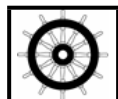


for **DNV AS**

Notified Body  
No.: **0575**

**Sverre Olav Bergli**  
**Head of Notified Body**

The manufacturer is allowed to affix the U.S. Coast Guard approval number(s) as stated in the appendix attached hereto and as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2019 dated February 22nd, 2019.



0575/yyyy

0575: Notified Body number undertaking quality surveillance  
yyyy: The year in which the mark is affixed



The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.  
This certificate authorizes the manufacturer in conjunction with the valid EC Type Examination (Module B) Certificate(s) of the equipment listed before to affix the Mark of Conformity (wheelmark) to the product described herein.  
This certificate loses its validity if the manufacturer makes any changes to the approved quality system which have not been notified to and agreed with the notified body named on this certificate. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.  
The Manufacturer has to apply for periodical audits to verify the maintenance and application of the quality system every 12 months.

**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.



## APPENDIX

### Item no. MED/4.15 GLONASS equipment

| Type designation       | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number               |
|------------------------|-------------------------------------|-------------|-------------------|------------------------------------|
| GP-170 <sup>1, 2</sup> | MEDB000068K Rev. 3                  | 2025-05-07  | 0575              | 165.131/EC0575 /MEDB000068K Rev. 3 |

### Item no. MED/4.16, MED/4.40 Heading control system (HCS) and Heading control system for high speed craft

| Type designation              | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number                 |
|-------------------------------|-------------------------------------|-------------|-------------------|--------------------------------------|
| NAVpilot-1000 <sup>1, 2</sup> | MEDB00007SD                         | 2025-07-01  | 0575              | 165.110, 165.210/EC0575 /MEDB00007SD |

### Item no. MED/4.29 Voyage data recorder (VDR)

| Type designation        | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number              |
|-------------------------|-------------------------------------|-------------|-------------------|-----------------------------------|
| VR-7000 <sup>1, 2</sup> | MEDB000039E Rev.5                   | 2024-06-11  | 0575              | 165.150/EC0575 /MEDB000039E Rev.5 |

### Item no. MED/4.30 Electronic chart display and information system (ECDIS)

| Type designation                          | EC Type-Examination Certificate No. | Expiry date              | Notified Body No. | USCG approval number               |
|-------------------------------------------|-------------------------------------|--------------------------|-------------------|------------------------------------|
| FMD-3200/3200-BB/FMD-3300 <sup>1, 2</sup> | MEDB00001AV Rev.10                  | 2026-09-01 <sup>a)</sup> | 0575              | 165.123/EC0575 /MEDB00001AV Rev.10 |
| FMD-3100 <sup>1, 2</sup>                  | MEDB00001MN Rev.3                   | 2024-08-19 <sup>a)</sup> | 0575              | 165.123/EC0575 /MEDB00001MN Rev.2  |

### Item no. MED/4.32 Universal automatic identification system (AIS)

| Type designation       | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number              |
|------------------------|-------------------------------------|-------------|-------------------|-----------------------------------|
| FA-170 <sup>1, 2</sup> | MEDB00000EV Rev.3                   | 2025-07-01  | 0575              | 165.155/EC0575 /MEDB00000EV Rev.3 |

<sup>a)</sup> According to Commission Implementing Regulation (EU) 2022/1157, the last date for placing on board a vessel for this product is 2024-01-01.

**Item no. MED/4.33 Track control system (TCS)**

| Type designation             | EC Type-Examination Certificate No. | Expiry date              | Notified Body No. | USCG approval number              |
|------------------------------|-------------------------------------|--------------------------|-------------------|-----------------------------------|
| TC-3001 R-A <sup>1, 2</sup>  | MEDB00003HC Rev.2                   | 2027-10-19 <sup>b)</sup> | 0575              | 165.112/EC0575 /MEDB00003HC Rev.1 |
| TC-3001 TKC <sup>1, 2</sup>  | MEDB000045U Rev.1                   | 2027-04-26 <sup>b)</sup> | 0575              | 165.112/EC0575 /MEDB000045U       |
| TC-3001 YDK <sup>1, 2</sup>  | MEDB00000S4 Rev.3                   | 2026-10-06 <sup>b)</sup> | 0575              | 165.112/EC0575 /MEDB00000S4 Rev.2 |
| TC-3001 EMRI <sup>1, 2</sup> | MEDB00000AJ Rev.3                   | 2025-07-01               | 0575              | 165.112/EC0575 /MEDB00000AJ Rev.2 |

**Item no. MED/4.37 Radar equipment for high speed craft applications**

| Type designation                                                                                                                                     | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number              |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------|-------------------|-----------------------------------|
| FAR-2318, FAR-2328, FAR-2328W, FAR-2338S, FAR-2338SW, FAR-2338-NXT, FAR-2218(-BB), FAR-2228(-BB), FAR-2238S(-BB), FAR-2238S-NXT(-BB) <sup>1, 2</sup> | MEDB00002ZW Rev.3                   | 2023-04-04  | 0575              | 165.216/EC0575 /MEDB00002ZW Rev.3 |

**Item no. MED/4.37 Radar equipment for high speed craft applications (CAT 1H and CAT 2H)**

| Type designation                                | EC Type-Examination Certificate No. | Expiry date              | Notified Body No. | USCG approval number              |
|-------------------------------------------------|-------------------------------------|--------------------------|-------------------|-----------------------------------|
| FAR-1518(-BB)/FAR-1528(-BB) HSC <sup>1, 2</sup> | MEDB00000FD Rev.5                   | 2026-08-22 <sup>c)</sup> | 0575              | 165.216/EC0575 /MEDB00000FD Rev.4 |

**Item no. MED/4.41 Transmitting heading device THD (GNSS method)**

| Type designation                 | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number              |
|----------------------------------|-------------------------------------|-------------|-------------------|-----------------------------------|
| GS-100 <sup>1, 2</sup>           | MEDB000039H Rev.4                   | 2025-07-01  | 0575              | 165.102/EC0575 /MEDB000039H Rev.4 |
| SC-70 and SC-130 <sup>1, 2</sup> | MEDB00001BY Rev.2                   | 2025-07-01  | 0575              | 165.102/EC0575 /MEDB00001BY Rev.2 |

**Item no. MED/4.47 Simplified voyage data recorder (S-VDR)**

| Type designation         | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number              |
|--------------------------|-------------------------------------|-------------|-------------------|-----------------------------------|
| VR-7000S <sup>1, 2</sup> | MEDB00001MR Rev.7                   | 2024-06-06  | 0575              | 165.151/EC0575 /MEDB00001MR Rev.7 |

**Item no. MED/4.51 DGLONASS Equipment**
<sup>b)</sup> According to Commission Implementing Regulation (EU) 2022/1157, the last date for placing on board a vessel for this product is 2025-07-01.

<sup>c)</sup> According to Commission Implementing Regulation (EU) 2022/1157, the last date for placing on board a vessel for this product is 2024-01-01.

| Type designation      | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number               |
|-----------------------|-------------------------------------|-------------|-------------------|------------------------------------|
| GP-170 <sup>1,2</sup> | MEDB000068K Rev. 3                  | 2025-05-07  | 0575              | 165.133/EC0575 /MEDB000068K Rev. 3 |

#### Item no. MED/4.57 Bridge Navigational Watch Alarm System (BNWAS)

| Type designation      | EC Type-Examination Certificate No. | Expiry date              | Notified Body No. | USCG approval number              |
|-----------------------|-------------------------------------|--------------------------|-------------------|-----------------------------------|
| BR-500 <sup>1,2</sup> | MEDB000011T Rev.2                   | 2026-03-02 <sup>d)</sup> | 0575              | 165.142/EC0575 /MEDB000011T Rev.1 |

#### Item no. MED/4.59 Integrated navigation system (INS)

| Type designation                  | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number |
|-----------------------------------|-------------------------------------|-------------|-------------------|----------------------|
| Furuno Voyager INS <sup>1,2</sup> | MEDB00001G6 Rev.3                   | 2024-01-01  | 0575              | N/A                  |

#### Item no. MED/4.6 Echo-sounding equipment

| Type designation      | EC Type-Examination Certificate No. | Expiry date              | Notified Body No. | USCG approval number        |
|-----------------------|-------------------------------------|--------------------------|-------------------|-----------------------------|
| FE-800 <sup>1,2</sup> | MEDB000039F Rev.1                   | 2026-06-02 <sup>d)</sup> | 0575              | 165.107/EC0575 /MEDB000039F |

#### Item no. MED/4.63 GNSS Equipment

| Type designation                | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number              |
|---------------------------------|-------------------------------------|-------------|-------------------|-----------------------------------|
| GP-170 <sup>1,2</sup>           | MEDB000039D Rev.6                   | 2025-07-01  | 0575              | 165.130/EC0575 /MEDB000039D Rev.6 |
| SC-70 and SC-130 <sup>1,2</sup> | MEDB00001BW Rev.2                   | 2025-07-01  | 0575              | 165.130/EC0575 /MEDB00001BW Rev.2 |

#### Item no. MED/4.64 Radar equipment

| Type designation                                                                                                                                                                                                                         | EC Type-Examination Certificate No. | Expiry date              | Notified Body No. | USCG approval number              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|-------------------|-----------------------------------|
| FAR-2218, FAR-2218-BB, FAR-2228, FAR-2228-BB, FAR-2228-NXT, FAR-2228-NXT-BB, FAR-2238S, FAR-2238S-BB, FAR-2238S-NXT, FAR-2238S-NXT-BB, FAR-2318, FAR-2328, FAR-2328W, FAR-2328-NXT, FAR-2338-SW, FAR-2338S, FAR-2338S-NXT <sup>1,2</sup> | MEDB00002AU Rev.8                   | 2026-08-29 <sup>e)</sup> | 0575              | 165.215/EC0575 /MEDB00002AU Rev.8 |
| FAR-3210, FAR-3210-BB, FAR-3220, FAR-3220-BB, FAR-3310, FAR-3320, FAR-3320W, FAR-3220W-BB, FAR-3330SW, FAR-3230SW-BB, FAR-3230S, FAR-3230S-                                                                                              | MEDB00001BE Rev.9                   | 2026-08-29 <sup>e)</sup> | 0575              | 165.215/EC0575 /MEDB00001BE Rev.9 |

<sup>d)</sup> According to Commission Implementing Regulation (EU) 2022/1157, the last date for placing on board a vessel for this product is 2025-07-01.

<sup>e)</sup> According to Commission Implementing Regulation (EU) 2022/1157, the last date for placing on board a vessel for this product is 2024-01-01.

|                                                                                                                            |                   |                          |      |                                   |
|----------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------|------|-----------------------------------|
| BB, FAR-3330S, FAR-3230S-SSD, FAR-3230S-SSD-BB, FAR-3330S-SSD, FAR-3220-NXT, FAR-3220-NXT-BB, FAR-3320-NXT <sup>1, 2</sup> |                   |                          |      |                                   |
| FAR-1518(-BB)/FAR-1528(-BB) <sup>1, 2</sup>                                                                                | MEDB00000FC Rev.8 | 2026-08-17 <sup>e)</sup> | 0575 | 165.215/EC0575 /MEDB00000FC Rev.8 |

**Item no. MED/4.7 Speed and distance measuring equipment (SDME)**

| Type designation                        | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number              |
|-----------------------------------------|-------------------------------------|-------------|-------------------|-----------------------------------|
| GS-100 <sup>1, 2</sup>                  | MEDB000039C Rev.4                   | 2025-07-01  | 0575              | 165.105/EC0575 /MEDB000039C Rev.4 |
| DS-85 Doppler Speed Log <sup>1, 2</sup> | MEDB000052F                         | 2025-02-02  | 0575              | 165.105/EC0575 /MEDB000052F       |
| DS-60 <sup>1, 2</sup>                   | MEDB000008R Rev.4                   | 2024-07-30  | 0575              | 165.105/EC0575 /MEDB000008R Rev.4 |
| DS-80 <sup>1, 2</sup>                   | MEDB00000HG Rev.1                   | 2024-07-14  | 0575              | 165.105/EC0575 /MEDB00000HG Rev.1 |

**Item no. MED/4.9 Rate-of-turn indicator (ROTI)**

| Type designation                 | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number              |
|----------------------------------|-------------------------------------|-------------|-------------------|-----------------------------------|
| SC-70 and SC-130 <sup>1, 2</sup> | MEDB00001BX Rev.2                   | 2025-07-01  | 0575              | 165.106/EC0575 /MEDB00001BX Rev.2 |

**Item no. MED/5.1 VHF radio installation capable of transmitting and receiving DSC and radiotelephony**

| Type designation         | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number |
|--------------------------|-------------------------------------|-------------|-------------------|----------------------|
| FM-8900S <sup>1, 2</sup> | 222120007/AA/00                     | 2027-04-01  | 0560              | N/A                  |

**Item no. MED/5.13 Inmarsat-C SES**

| Type designation         | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number |
|--------------------------|-------------------------------------|-------------|-------------------|----------------------|
| FELCOM18 <sup>1, 2</sup> | 222120009/AA/00                     | 2027-03-08  | 0560              | N/A                  |

**Item no. MED/5.14 MF/HF radio capable of transmitting and receiving DSC, NBDP and radiotelephony**

| Type designation        | EC Type-Examination Certificate No. | Expiry date              | Notified Body No. | USCG approval number |
|-------------------------|-------------------------------------|--------------------------|-------------------|----------------------|
| FS-1575 <sup>1, 2</sup> | 222120001/AA/00                     | 2027-03-08 <sup>f)</sup> | 0560              | N/A                  |
| FS-2575 <sup>1, 2</sup> | 212120003/AA/02                     | 2026-06-02 <sup>f)</sup> | 0560              | N/A                  |
| FS-5075 <sup>1, 2</sup> | 212120004/AA/02                     | 2026-06-02 <sup>f)</sup> | 0560              | N/A                  |

**Item no. MED/5.15 MF/HF DSC watch-keeping receiver**

<sup>f)</sup> According to Commission Implementing Regulation (EU) 2022/1157, the last date for placing on board a vessel for this product is 2023-08-12.

| Type designation        | EC Type-Examination Certificate No. | Expiry date              | Notified Body No. | USCG approval number |
|-------------------------|-------------------------------------|--------------------------|-------------------|----------------------|
| FS-1575 <sup>1, 2</sup> | 222120008/AA/00                     | 2027-03-08 <sup>f)</sup> | 0560              | N/A                  |
| FS-2575 <sup>1, 2</sup> | 212120011/AA/01                     | 2026-06-02 <sup>f)</sup> | 0560              | N/A                  |
| FS-5075 <sup>1, 2</sup> | 212120012/AA/01                     | 2026-06-02 <sup>f)</sup> | 0560              | N/A                  |

**Item no. MED/5.2 VHF DSC watch-keeping receiver**

| Type designation         | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number |
|--------------------------|-------------------------------------|-------------|-------------------|----------------------|
| FM-8900S <sup>1, 2</sup> | 222120010/AA/00                     | 2027-04-01  | 0560              | N/A                  |

**Item no. MED/5.3 NAVTEX receiver**

| Type designation                 | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number |
|----------------------------------|-------------------------------------|-------------|-------------------|----------------------|
| NX-700A, NX-700B <sup>1, 2</sup> | 202120004/AA/01                     | 2025-04-07  | 0560              | N/A                  |

**Item no. MED/5.4 EGC receiver**

| Type designation         | EC Type-Examination Certificate No. | Expiry date | Notified Body No. | USCG approval number |
|--------------------------|-------------------------------------|-------------|-------------------|----------------------|
| FELCOM18 <sup>1, 2</sup> | 222120006/AA/00                     | 2027-03-08  | 0560              | N/A                  |

**Places of production**

- 1.FURUNO DONGGUAN CO., LTD., 246, CHANGANBUBUGAO ROAD,CHANGAN, DONGGUAN CITY, China
- 2.Furuno Electric Co., Ltd. Miki Factory, 1 Tomoe,, Bessho-cho, Miki-city, Japan