



# Bundesrepublik Deutschland

Federal Republic of Germany

## BSH-Cert

Benannte Stelle – Navigations- und Funkausrüstung  
beim Bundesamt für Seeschifffahrt und Hydrographie

Notified Body – Navigation and Radiocommunication Equipment  
at the Federal Maritime and Hydrographic Agency



NOTIFIED  
BODY  
0735

### EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

BSH-Cert, specified as a "notified body" under the terms of „Schiffssicherheitsgesetz“ of 09 September 1998 (BGBl. I, p. 2860) modified last 08 March 2012 (BGBl. I, p. 483), did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Navigation requirements of Marine Equipment Directive (MED) 96/98/EC and the last modification by Directive 2012/32/EU.

Manufacturer **Furuno Electric Co., Ltd.**  
Address **9-52 Ashihara-cho, Nishinomiya-City 662-8580, Japan**

Applicant **Furuno Deutschland GmbH**  
Address **Siemensstraße 33, 25462 Rellingen, GERMANY**

Annex A.1 Item **4.47 Simplified voyage data recorder (S-VDR)**  
(No & item designation)

Product Name **VR-3000S**

Trade Name(s) **VR-3000S**

#### Specified Standard(s)

|                            |  |
|----------------------------|--|
| IMO Resolution MSC 163(78) | IEC 61996-2 Ed.2.0 2007                    |
| IMO Resolution A.694(17)   | IEC 60945 Ed.4.0, 2002 Incl. Corr. 1, 2008 |
| IMO Resolution A 861(20)   | IEC 61162-1 Ed.4.0, 2010                   |
| IMO Resolution MSC 191(79) | IEC 61162-2 Ed.1.0, 1998                   |
|                            | IEC 62288 Ed.1.0, 2008                     |

Based on the Directive 2011/75/EU, additional applied version: Directive 2012/32/EU  
This certificate remains valid unless cancelled, expired or revoked.

Date of Re-issue: **23 September 2013**

Issued by: **BSH-Cert**  
**Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany**  
Notified body 0735

Expiry date: **19 June 2018**

Certificate No.: **4581/001/4472495/13**

This certificate consists of 4 pages.



by order

Kai-Jens Schulz-Reifer



**Components necessary for operation:**

See Annex to EC type examination (Module B) certificate 4581/001/4472495/13

**Approval Documentation:**

See Annex to EC type examination (Module B) certificate 4581/001/4472495/13

**Product Documentation:**

| Item  | No. / Version               |
|---|-----------------------------|
| Installation Manual<br>Voyage Data Recorder – Simplified Voyage Data Recorder VR-3000, VR-3000S | IME-44370-G<br>19 May 2008  |
| Instruction Manual<br>Maintenance Viewer Model VR-3000/S  | OME-44373-Z<br>May 2008     |
| Operator's Manual<br>Voyage Data Recorder – Simplified Voyage Data Recorder VR-3000, VR-3000S   | OME-44370-E1<br>22 Aug 2008 |
| Instruction Manual<br>Data Extraction Procedure Model VR-3000/S                                 | C42-00408-B2<br>Oct 2008    |
| Operator's Manual<br>Model VR-3020 (VR-3000/S, V.2.00)<br>Live Player V4                        | OME-44372-Z<br>Ed. May 2008 |

**Places of production:**

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**Limitations on the acceptance or use of the product:**

The Remote Alarm Panel (VR-3016) only used for service purposes, there were no tests performing according the display test standard IEC62288.

**Data Recording Unit VR-5020:**

- Memory size minimum 6GByte

**Internal video input connection:**

| Maximum number of radars | Resolution of the screen |
|--------------------------|--------------------------|
| 2                        | 1280 x 1024              |
| 1                        | 1600 x 1200              |

**Notes:**

The manufacturer shall inform BSH-Cert, as the notified body, of any modifications to the type-tested product(s) that may affect compliance with the requirements or conditions laid down for use of the product(s).

In case the specified regulations or standards are amended during the validity of this certificate, the product(s) must be re-certified before being placed on board vessels to which such amended regulations or standards apply.

The Mark of Conformity (wheelmark) may only be affixed to the type approved equipment, and a Manufacturer's Declaration of Conformity may only be issued, if the product quality system fully complies with the Marine Equipment Directive and is certified by a notified body against ANNEX B module D, E, or F of the Directive.

**U.S. Coast Guard Approval**

This product has been assigned a U.S. Coast Guard Module B number (165.xxx/EC0735/Unique Identifier [if other than EC 0735: /Number of the notified body which certifies the quality assurance system] to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Maritime Equipment" signed February 27<sup>th</sup>, 2004, and additional information given by U.S. Coast Guard by E-Mail 2010.

**Notice on legal remedies available:**

Objection to this document may be filed within one month after notification. The objection must be filed in writing to, or put on record at, Federal Maritime and Hydrographic Agency, Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany

**ANNEX TO  
EC TYPE EXAMINATION (MODULE B) CERTIFICATE**

**No.: 4581/001/4472495/13**

**Components necessary for operation:**

| <b>Designation:</b>  | <b>Type designation:</b> |
|----------------------|--------------------------|
| Data Collecting Unit | VR-3010                  |
| Remote Alarm Panel   | VR-3016                  |
| Data Recording Unit  | VR-5020                  |
| Microphone           | VR-5011                  |
| Microphone (Outdoor) | VR-3012W                 |

**Optional components:**

| <b>Designation:</b> | <b>Type designation:</b> |
|---------------------|--------------------------|
| VHF Interface       | IF-5200                  |
| Radar Video Switch  | IF-1000RVC               |
| Junction Box        | IF-8530                  |

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**Approval documentation:**

| Item   | Test Report No. / Version |            |
|--|---------------------------|------------|
| Assessment report<br>IEC 61162-1<br>Bundesamt für Seeschifffahrt<br>und Hydrographie (BSH) | BSH/46121/4292235/12      | 24.02.2012 |
| Test report IEC61996-1<br>Bundesamt für Seeschifffahrt<br>und Hydrographie (BSH)           | BSH/4612/429090308        | 03.12.2008 |
| Test Report IEC 61162-1<br>Ed.4.0<br>Furuno Labotech International<br>VR-3010              | FLI 12-12-001, Rev. 1     | 16.02.2012 |
| Test report IEC61996-1<br>Furuno<br>VR-5020  | Test Sequence             | 13.11.2008 |
|  | MDR-07-0837(E) Rev. 0     | 21.10.2008 |
|  | MDR-20-0445(E) Rev. 0     | 10.11.2008 |
|  | MDR-08-0338(E) Rev. 0     | 07.11.2008 |
|  | MDR-02-0667(E) Rev. 0     | 10.11.2008 |
|  | MDR-08-0333(E) Rev. 0     | 23.10.2008 |
|  | MDR-02-0662(E) Rev. 0     | 10.11.2008 |
| Test report IEC60945<br>Furuno Labotech International                                      | FLI 12-06-001             | 24.02.2006 |
| Test report IEC60945<br>Furuno Labotech International<br>IF-1000RVC                        | FLI 12-08-020             | 04.04.2008 |
|  | FLI 12-08-041             | 18.07.2008 |
|  | FLI 12-08-042             | 18.07.2008 |
|  | FLI 12-08-043             | 18.07.2008 |
|  | FLI 12-08-048             | 22.07.2008 |
|  | FLI 12-08-055             | 21.07.2008 |
| Test report IEC60945<br>Furuno Labotech International<br>VR-5020                           | FLI 12-08-069             | 14.11.2008 |
|  | FLI 12-08-072             | 14.11.2008 |
|  | FLI 12-08-049             | 25.07.2008 |
|  | FLI 10-07-012             | 22.03.2007 |
|  | FLI 10-07-012             | 22.03.2007 |
| Test report IEC60945<br>Furuno Labotech International<br>VR-3016                           | FLI 12-08.062             | 30.09.2008 |
| Test report IEC62288<br>Furuno Labotech International<br>VR-3016                           | FLI 12-09-071 Rev.1       | 04.12.2009 |
| Test report<br>Furuno Labotech International   | FLI 12-12-024             | 15.03.2012 |
| Test report<br>Furuno Labotech International   | K24-17-540-0              | 03.07.2013 |

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