

TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No: MERB000039E Revision No:

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

That the Voyage data recorder (VDR)

with type designation(s) VR-7000

Issued to

Furuno Electric Co., Ltd. Nishinomiya, Japan

is found to comply with the requirements in the following Regulations/Standards: Regulation MSN 1874 Amendment 8,

item No. UK/4.29. SOLAS 74 as amended, Regulations V/18, V/20 & X/3, IMO Res. A.694(17), IMO Res. MSC.36(63), IMO Res. MSC.97(73), IMO Res. MSC.191(79), IMO Res. MSC.302(87), IMO Res. MSC.333(90)

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

This Certificate is valid until 2025-07-01.

Issued at London on 2024-05-08

DNV local unit: Japan CMC

Approval Engineer: Steinar Kristensen

Approved Body No.: 0097

for DNV UK Ltd.

Christine Mydlak-Röder **MER Service Responsible**



by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the

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[&]quot;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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) **UK Approved Body Authorised** Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.



Job Id: AA00481E
Certificate No: MERB000039E

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Product description

The VR-7000 VDR comprises combinations of the following components:

Unit	Model Name	Remark	Location
Data collecting unit (DCU)	VR-7010		Protected
Fixed data recording unit	VR-7020 or		Exposed
	VR-7023		Exposed
Float-free data recording unit	VR-7021F/ Tron 40VDR or	1), 2)	Exposed
	VR-7024F/ Tron 40VDR AIS (HB)	2), 3)	Exposed
Remote alarm panel	VR-7017		Protected
Microphone	VR-7011	May 9 ah	Protected
Microphone waterproof	VR-7012W	2W Max 8 ch.	
Video LAN converter	IF-7100	Max 2 ch. (DVI-D/RGB)	Protected
Sensor adapter	MC-3000S	Serial	Protected
Sensor adapter	MC-3010A	Analog (option)	Protected
Sensor adapter	MC-3020D	Digital (option)	Protected
Live player V5	VR-7030	Playback package	Protected
Intelligent HUB	HUB-3000	option	Protected
Switching HUB	HUB-100	option	Protected
Junction box	VR-7022F		Exposed
Junction box	IF-8530	option	Protected
Software	Prog.no. 2450102 Rev.0	01.xx	

- 1) In accordance with IEC 61996-1 (2013) and IEC 61996-2 (2007), date for last placing on board is 2025-07-01
- 2) Separate certificate is required for EPIRB where the Float free is to be used to comply with carriage requirements for EPIRB.
- 3) Optionally installed with heated bracket (HB).

Application/Limitation

- The VR-7000 equipment shall be installed in compliance with the installation instructions of Pub. No. IME-44850-X. Fixed Data Recording Unit capacity is 32GB.
- The VR-7000 is in compliance with IMO Res. MSC.333(90), as amended by Res. MSC.494(104), when installed with Float Free VR-7024F/ Tron 40VDR AIS (HB)
- Float free VR-7024F (with optional heated bracket) is tested for compliance with IEC 61996-1 (2013) +A1(2021) using a Galileo GNSS receiver in accordance with IEC 61108-3 (2010).

Note: The VR-7000 is examined and found to comply with the standards for IEC 61924-2 "Modular structure for INS", Annex K and Annex M.

Tests carried out

Performance: IEC 61996-1 (2013) + A1(2021)

Serial Interface: IEC 61162-1 (2016)
 Serial Interface: IEC 61162-2 (1998)
 LAN Interface: IEC 61162-450 (2018)
 Presentation: IEC 62288 (2014)

Environmental: IEC 60945 (2002) incl. Corr.1 (2008)

Bridge Alert Management: IEC 62923-1 (2018) and IEC 62923-2 (2018)

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Revision No: 2

Type Examination documentation

No. DANAK-19/14068 1 Report: Delta, Shock, penetration, fire, deep sea immersion and data verification test report for VDR Capsule MK4 92 BHS(45420020062585/ 14 2014-04-25 Certificate: BSH. Conformity statement for F19 NINETY Underwater Locating Device (ULD) 88 DANAK-19/13648 2 Report: Delta, Marine Type Approval test report including data recording capsule 86 LIC 12-23-084 2023-05-22 Report: Labelech, Rain and spray test report for VR-7022 Flunction box 85 LIC 12-23-037 2023-04-12 Report: Labelech, Rain and spray test report for VR-7022 Flixed Data Recording Unit 84 LIC 12-23-036 2023-04-12 Report: Labelech, Exh Crest report for VR-7023 Fixed Data Recording Unit 85 LIC 12-22-194 2022-11-16 Report: Labelech, Exh Crest report for VR-7023 Fixed Data Recording Unit 86 LIC 12-22-194 2022-11-16 Report: Labelech, Exh Crest report for VR-7023 Fixed Data Recording Unit 87 LIC 12-22-193 1 Report: Labelech, Exh Crest report for VR-7023 Fixed Data Recording Unit 88 LIC 12-22-193 1 Report: Labelech, Exh Crest report for VR-7023 Fixed Data Recording Unit 89 Lic 12-22-194 2023-03-03 Marual: Labelech	DNV	Examination documen Document ID	Rev.	Description	
and data verification test report for VDR Capsule MK4	No.				
14	95	DANAK-19/14068	1		
BANAK-19/13648 2 Report: Delta, Marine Type Approval test report including data recording capsule	92		2014-04-25	Certificate: BSH, Conformity statement for PT9 NINETY	
Section	88	DANAK-19/13648	2	Report: Delta, Marine Type Approval test report including data	
Data Recording Unit	86	LIC 12-23-084	2023-05-22	Report: Labotech, Rain and spray test report for VR-7022F	
Dala Recording Units	85	LIC 12-23-037	2023-04-12		
To23 Fixed Data Recording Unit Report: Labotech, Temperature test report for VR-7023 Fixed Data Recording Unit Report: Labotech, EMC test report for VR-7023 Fixed Data Recording Unit Computer State Co	84	LIC 12-23-036	2023-04-12	Report: Labotech, EMC test report for VR-7023 and VR-7010	
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Viewer, Model: VR-7000/VR7000S	81	LIC 12-22-192	2022-11-16	Report: Labotech, EMC test report for VR-7023 Fixed Data	
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T000/VR-7000S	76	OME-44851-K10	2023-03-03	VR-7030	
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69 Cert. 354 4. Feb. 2022 TAC-354 for Jotron models Tron 40VDR AIS_04-FEB-2022 66 75950873-02 Issue 01 Report: TUV IEC 60945, ETSI EN 301 489-1 and ETSI EN 301 489-19 Tron 40VDR AIS 65 75950873-08 Issue 03 Report: TUV, IEC 61108-3 (2010) GNSS testing of Tron 40VDR AIS 64 75950873-09 Issue 01 Report: TUV, IEC 61097-2 Annex D, 121.5 MHz Homing transiter, Tron 40VDR AIS 63 BSH/454.GNSS/TUVSU DLtd/6 8. Feb. 2022 Report: TUV, IEC 61108-3 (2010) (4.3.8, 5.6.9) integrated GNSS receiver,	73				
Report: TUV IEC 60945, ETSI EN 301 489-1 and ETSI EN 301 489-1 and ETSI EN 301 489-1 Tron 40VDR AIS	70		4. Feb. 2022		
301 489-19 Tron 40VDR AIS	69		4. Feb. 2022		
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transiter, Tron 40VDR AIS	65	75950873-08		Report: TUV, IEC 61108-3 (2010) GNSS testing of Tron	
DLtd/6	64	75950873-09	Issue 01	Report: TUV: IEC 61097-2 Annex D, 121.5 MHz Homing	
Top	63	DLtd/6		GNSS receiver,	
58 E21187.00 2022-02-10 Report: NEMKO IEC 61996-1:2013 + AMD1:2021 - Partial test, Tron 40VDR AIS (COSPAS-SARSAT 406 MHz Satellite Emergency Position-Indicating RadioBeacon (EPIRB) with attached Voyager Data Recorder (VDR)) 56 K-24-17-1036-0 13. APR 2021 Report: Furuno IEC61162-450: VDR Internal Test Report of IEC61162-450 53 K-24-17-1026-0 14. JAN 2021 Report: DNVGL type approval Internal test Report pf IEC 62923-1/2 Model VR-7000/VR-7000S - DELETE 48 FLI 12-14-021 VR-7000: Test Report IEC61162-450 47 LIC 12-19-026 VR-7010: IEC61162-1 46 K24-17-941-0 Internal test report of IEC61162-450 Ed.1 Amd.1- 45 FLI 12-14-020 Test report IEC61162-1/-2 for VR-7000 44 K-24-17-927-0 Internal test report IEC61162-1 Ed.5 43 K24-19-021 Technical document; IF-7100 changes 42 K24-17-637-2 1 Test report of Image Evaluation for VDR 40 FLI12-14-136 IEC60945: Emrironmental test report 38 FLI12-14-135 IEC60945: Em/C test report 37 K24-19-018 Technical document - monitoring and alerts 36 E42-01402-G11 2023-03	62	75950873-01	Issue 02		
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56 K-24-17-1036-0 13. APR 2021 Report: Furuno IEC61162-450: VDR Internal Test Report of IEC61162-450 53 K-24-17-1026-0 14. JAN 2021 Report: DNVGL type approval Internal test Report pf IEC 62923-1/2 Model VR-7000/VR-7000S - DELETE 48 FLI 12-14-021 VR-7000: Test Report IEC61162-450 47 LIC 12-19-026 VR-7010: IEC61162-1 46 K24-17-941-0 Internal test report of IEC61162-450 Ed.1 Amd.1- 45 FLI 12-14-020 Test report IEC61162-1/-2 for VR-7000 44 K-24-17-927-0 Internal test report IEC61162-1 Ed.5 43 K24-19-021 Technical document; IF-7100 changes 42 K24-17-637-2 1 Test report of Image Evaluation for VDR 40 FLI12-14-137 IEC60945: Compass safe distance 39 FLI12-14-136 IEC60945: Environmental test report 38 FLI12-14-135 IEC60945: EMC test report 37 K24-19-018 Technical document - monitoring and alerts 36 E42-01402-G11 2023-03 Manual, Furuno: Instruction Manual, Data Extraction Procedure, Model VR-7000/	58	E21187.00	2022-02-10	test, Tron 40VDR AIS (COSPAS-SARSAT 406 MHz Satellite Emergency Position-Indicating RadioBeacon (EPIRB) with	
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DNV	Document ID	Rev.	Description	
No.				
34	K24-19-017-3		Technical document - BER monitoring	
31	K24-17-657		UTC time synchronization	
30	K24-17-658		Recording duration test	
28	FLI12-14-026		IEC62288 report	
27	FLI12-14-025		Compass safe distance report	
26	FLI12-14-024		IEC60945 operation check report	
25	FLI12-14-023		IEC60945 test report	
24	FLI12-14-022		EMC test report	
23	FLI12-14-021		IEC61162-450 test report	
22	FLI12-14-020		IEC61162-1/2 test report	
18	E13261.04		NEMKO test report - TRON40VDR - IEc61097-2, IEC60945,	
			IEC61996-1, RTCM77	
17	75924802	1	TUV SUD - TRON40VDR test report - Cospas-Sarsat T.007	
12	ENV267		L3 HVR04 Environmental/EMI test report	
11	ENV266		L3 HVR04 Crash Survivability test report	
9	K24-17-637		Furuno Image Test Report of VR-7000	
8	K24-17-633		Test report IEC61996-2 6.2.2.5 Audio complex signals	
7	K24-19-016		Technical Document VR-7000	
6	K24-17-591		VR-7000 - Type approval testing report	
5	K24-19-017		VR-7000 - Technical document - LTC interface specification	

Tests carried out

• Performance: IEC 61996-1 (2013) + A1(2021)

Serial Interface: IEC 61162-1 (2016)
 Serial Interface: IEC 61162-2 (1998)
 LAN Interface: IEC 61162-450 (2018)
 Presentation: IEC 62288 (2014)

Environmental: IEC 60945 (2002) incl. Corr.1 (2008)

Bridge Alert Management: IEC 62923-1 (2018) and IEC 62923-2 (2018)

Marking of product

The type designation and name and contact address of the manufacturer shall be affixed visibly, legibly and indelibly to at least one part of the product. In addition the various equipment shall be marked with serial number. Safe distance to magnetic compass and power consumption and/or supply voltage may be stated in the individual installation manuals.

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