EU type-examination certificate (Module B)
162140114/AA/14

Issued 29 January 2025

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This certificate has THREE Annexes

CERTIFICATE

In compliance with the procedure specified in the **Radio Equipment Directive Scheme** RD_061, Kiwa Nederland B.V. declares as designated Notified Body 0063 for the Radio Equipment Directive, that the stated product complies with the essential requirements, in accordance with Article 3 of Directive 2014/53/EU and amending Directive (EU) 2022/2380, as indicated under Annex 1 of this certificate, based on the applicable technical standards and specifications as listed in Annex 2 of this certificate.

Product description:	**Non-IMO RADAR equipment**
Trademark:	**FURUNO**
Family name:	**NavNet TZtouch2, NavNet TZtouch3, NavNet TZtouchXL, FR-8/10/12**
Type designation:	**DRS2D-NXT**
Variants:	**See Annex 3**

This certificate is granted to manufacturer:

Name:	**Furuno Electric Co., Ltd.**
Address:	**9-52 Ashihara cho**
City:	**662-8580 Nishinomiya**
Country:	**JAPAN**

This certificate remains valid as long as the stated product stays in compliance with the essential requirements of the Radio Equipment Directive.

Ron Scheepers
Managing director

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Chamber of commerce
08090048

PRODUCTS
RvA C 002

General Conditions

For each product to which this EU-type examination certificate relates, it has complied to the essential requirements as follows:

Article 3.1

Radio equipment shall be constructed so as to ensure:

C	(a)	the protection of health and safety of persons and of domestic animals and the protection of property, including the objectives with respect to safety requirements set out in Directive 2014/35/EU, but with no voltage limit applying;
C	(b)	an adequate level of electromagnetic compatibility as set out in Directive 2014/30/EU.

Article 3.2

C		Radio equipment shall be so constructed that it both effectively uses and supports the efficient use of radio spectrum in order to avoid harmful interference.

Article 3.3

Radio equipment within certain categories or classes shall be so constructed that it complies with the following essential requirements:

NA	(a)	radio equipment interworks with accessories other than the charging devices for the categories or classes of radio equipment, specified in Part I of Annex Ia, which are specifically referred to in paragraph 4 of this Article
NA	(b)	radio equipment interworks via networks with other radio equipment;
NA	(c)	radio equipment can be connected to interfaces of the appropriate type throughout the Union;
NA	(d)	radio equipment does not harm the network or its functioning nor misuse network resources, thereby causing an unacceptable degradation of service;.
NA	(e)	radio equipment incorporates safeguards to ensure that the personal data and privacy of the user and of the subscriber are protected;
NA	(f)	radio equipment supports certain features ensuring protection from fraud;
NA	(g)	radio equipment supports certain features ensuring access to emergency services;
NA	(h)	radio equipment supports certain features in order to facilitate its use by users with a disability;
NA	(i)	radio equipment supports certain features in order to ensure that software can only be loaded into the radio equipment where the compliance of the combination of the radio equipment and software has been demonstrated.

Article 3.4

	(a)	Radio equipment falling within the categories or classes specified in Part I of Annex Ia shall be so constructed that it complies with the specifications relating to charging capabilities set out in that Annex for the relevant category or class of radio equipment.

Legend

C	=	Conform
NC	=	Not Conform
NA	=	Not applicable (for this equipment)
NP	=	Not performed (for this certificate)

- This EU-type examination certificate is limited to the Radio Equipment Directive.
- This EU-type examination certificate is part of the Conformity Assessment procedure Module B and C, as described in annex III of the Radio Equipment Directive.
- The validity of this EU-type examination certificate is limited to products, which are equal to the one(s) assessed for this EU-type examination.
- When the manufacturer (or holder of this EU-type examination certificate) is placing the listed products on the European market or the countries of the EEA, he is obliged to label the products with the prescribed CE logo. The CE logo stands for conformity to all applicable Directives.
  Next to the CE logo the manufacturer has to draw up and issue a Declaration of Conformity, declaring that the product(s) described in this EU type-examination certificate, are in compliance with Directive 2014/53/EU and any other applicable EU harmonization legislation.
- Each product shall be identified by means of type, batch and/or serial numbers and the name of the manufacturer and/or importer.
- If the equipment is to be modified, Kiwa shall be notified immediately. Depending on the modifications, Kiwa may have additional examinations carried out in consultation with the applicant.
- Enforcement of a new amending directive voids the validity of this EU-type examination certificate.
- In case any referenced standard in this EU-type examination certificate is withdrawn or superseded and the presumption of conformity with the essential requirements has ceased, investigation by Kiwa is needed to determine the validity of this EU-type examination certificate.

Remarks and observations

The following conditions are applicable:

AA/01: Addition of radar sensors DRS12A_X-Class and DRS25A_X-Class.
AA/02: Addition of radar sensors DRS6A-NXT and DRS4DL+.
AA/03: Addition of multi function display TZT2BB and family name change.
AA/04: Standard update; Addition of multi function display TZT12F, TZT16F and TZT19F; Radar sensor DRS12A-NXT, DRS25A-NXT are added.
AA/05: 1) Add new MultiFunction Display TZT9F which has built-in wireless LAN and GPS. The wireless LAN is same with approved TZT12F/15F/19F. 2) Add IEC 62368-1 Ed.3. 3) Delete Family name NavNet 3D, NavNet TZT and some units MFD8/12/BB and the option unit, DRS4A/6A/12A/25A/2D/4D/4DL which are not in compliance with IEC 62368-1 Ed.3.
AA/06: Addition of radar sensor DRS2D-NXT / Standard update as describe in the filing
AA/07: Add 1. Single Function Display SFD-1010, SFD-1012. 2. Marine Radar FR-10, FR-12. 3. Rdar Sensor DRS4D X-Class. The difference is described in the filling.
AA/08: (This change is only for the following models: DRS2D-NXT, DRS4D-NXT and DRS6A-NXT) The discontinued final amplifier is replaced as described in the filing, also the PWB and power supply circuitry is changed.
AA/09: Built -in Wireless LAN module for Multi function display TZT2BB, TZT9F, TZT12F, TZT16F, and TZT19F is changed.
AA/10: The magnetron "MAF1562R" for the radar sensor DRS6A X-Class is added.
AA/11: 1) Add Multifunction Displays TZT22X and TZT24X. , 2) The standard EN303 413 V1.1.1 is updated to EN 303 413 V1.2.1, 3) Model name RTR-112A has been added. ,4) The family name has been amended to NavNet TZtouch2, NavNet TZtouch3
AA/12: Add MULTI FUNCTION DISPLAY: TZT10X, TZT13X and TZT16X (Family name: NavNet TZtouchXL)
AA/13: Add MARINE RADAR FR-8 and MULTI FUNCTION DISPLAY TZTBBX. Delete MULTI FUNCTION DISPLAY TZTL12F/L15F.
AA/14: MULTI FUNCTION DISPLAY TZT10X, TZT13X, TZT16X, TZT22X, TZT24X and TZTBBX change to activate Bluetooth function with the same Wireless LAN/Bluetooth module, and add the optional unit Gesture Controller GC-001.

Documentation lodged for this EU-type examination

Test Reports:

- Furuno Labotech International Co. Ltd.: FLI 12-14-090, 23 January 2015
- Furuno Labotech International Co. Ltd.: FLI 12-14-091, 22 January 2015
- Furuno Labotech International Co. Ltd.: FLI 12-14-092, 22 January 2015
- Furuno Labotech International Co. Ltd.: FLI 12-14-093, 22 January 2015
- Furuno Labotech International Co. Ltd.: FLI 12-14-094, 23 January 2015
- Furuno Labotech International Co. Ltd.: LIC 12-15-072, 30 September 2015
- Furuno Labotech International Co. Ltd.: LIC 12-15-073, 30 September 2015
- Furuno Labotech International Co. Ltd.: LIC 12-15-074, 30 September 2015
- Furuno Labotech International Co. Ltd.: LIC 12-15-075, 30 September 2015
- Furuno Labotech International Co. Ltd.: LIC 12-15-076, 30 September 2015
- Furuno Labotech International Co. Ltd.: LIC 12-15-077, 30 September 2015
- Furuno Labotech International Co. Ltd.: LIC 12-15-078, 30 September 2015
- Furuno Labotech International Co. Ltd.: LIC 12-15-079, 30 September 2015
- Furuno Labotech International Co. Ltd.: K03-17-2274, 22 January 2016
- NorthwestEMC, INC.: ETHE0008.9, 29 August 2014
- NorthwestEMC, INC.: ETHE0018.2, 24 April 2015
- NorthwestEMC, INC.: ETHE0008.8, 05 September 2014
- Labotech International Co., Ltd.: LIC 12-16-088, 31 August 2016
- Labotech International Co., Ltd.: LIC 12-16-089, 31 August 2016
- NorthwestEMC, INC.: ETHE0018.3, 10 December 2014
- Labotech International Co., Ltd.: LIC 12-16-090, 31 August 2016
- NorthwestEMC, INC.: ETHE0018.14, 02 February 2015
- Labotech International Co., Ltd.: LIC 12-16-091, 31 August 2016
- Labotech International Co., Ltd.: LIC 12-16-092, 31 August 2016
- Labotech International Co., Ltd.: LIC 12-16-093, 31 August 2016
- Labotech International Co., Ltd.: LIC 12-16-094, 31 August 2016
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- Labotech International Co., Ltd.: LIC 12-16-116, 22 December 2016
- Labotech International Co., Ltd.: LIC 12-16-117, 22 December 2016
- Labotech International Co., Ltd.: LIC 12-16-118, 22 December 2016
- Labotech International Co., Ltd.: LIC 12-16-159, 27 February 2017
- Labotech International Co., Ltd.: LIC 12-16-160, 27 February 2017
- Labotech International Co., Ltd.: LIC 12-16-161, 27 February 2017
- Labotech International Co., Ltd.: LIC 12-16-162, 27 February 2017
- Furuno Electric Co., Ltd.: K03-17-2554, 01 March 2017
- Furuno Electric Co., Ltd.: K03-17-2555, 27 February 2017
- Labotech International Co., Ltd.: LIC 12-17-080, 29 September 2017
- Labotech International Co., Ltd.: LIC 12-17-081, 29 September 2017
- Labotech International Co., Ltd.: LIC 12-17-082, 29 September 2017
- Labotech International Co., Ltd.: LIC 12-17-084, 29 September 2017
- Labotech International Co., Ltd.: LIC 12-17-083, 29 September 2017
- MiCOM Labs: DIGI68-E2 Rev A BT, 21 July 2017
- MiCOM Labs: DIGI68-E4 Rev A Wifi , 21 July 2017
- MiCOM Labs: DIGI68-E6 Rev A , 21 July 2017
- MiCOM Labs: DIGI68-E8 Rev A , 21 July 2017
- Verkotan Oy: ETSI EN 303 413 Conformance Test Report, 16 June 2017
- Labotech International Co., Ltd.: LIC 12-19-131, 26 September 2019
- Labotech International Co., Ltd.: LIC 12-19-132, 26 September 2019
- Labotech International Co., Ltd.: LIC 12-19-134, 26 September 2019
- Labotech International Co., Ltd.: LIC 12-19-135, 26 September 2019
- Labotech International Co., Ltd.: LIC 12-19-136, 26 September 2019
- Labotech International Co., Ltd.: LIC 12-19-137, 26 September 2019

- Labotech International Co., Ltd.: LIC 12-19-138, 26 September 2019
- Labotech International Co., Ltd.: LIC 12-19-139, 26 September 2019
- Labotech International Co., Ltd.: LIC 12-19-111, 23 August 2019
- Labotech International Co., Ltd.: LIC 12-19-112, 27 August 2019
- Labotech International Co., Ltd.: LIC 12-19-113, 27 August 2019
- Labotech International Co., Ltd.: LIC 12-19-114, 27 August 2019
- Labotech International Co., Ltd.: LIC 12-19-121, 23 August 2019
- Labotech International Co., Ltd.: LIC 12-19-122, 27 August 2019
- Labotech International Co., Ltd.: LIC 12-19-123, 27 August 2019
- Labotech International Co., Ltd.: LIC 12-19-124, 27 August 2019
- Labotech International Co., Ltd.: LIC 12-19-129, 30 September 2019
- Labotech International Co., Ltd.: LIC 12-19-130, 27 August 2019
- Furuno Electric Co., Ltd.: RET-19-026, 27 August 2019
- Furuno Electric Co., Ltd.: RET-19-027, 27 August 2019
- Furuno Electric Co., Ltd.: RET-19-012, 24 April 2019
- Furuno Electric Co., Ltd.: RET-19-011, 24 April 2019
- Furuno Electric Co., Ltd.: RET-19-013, 24 April 2019
- Labotech International Co., Ltd.: LIC 12-20-016, 11 March 2020
- Labotech International Co., Ltd.: LIC 12-20-044, 27 April 2020
- Labotech International Co., Ltd.: LIC 12-20-106, 27 July 2020
- Labotech International Co., Ltd.: LIC 12-20-109, 27 July 2020
- Labotech International Co., Ltd.: LIC 12-20-110, 27 July 2020
- Labotech International Co., Ltd.: LIC 12-20-111, 27 July 2020
- Labotech International Co., Ltd.: LIC 12-20-112, 27 July 2020
- Labotech International Co., Ltd.: LIC 12-20-113, 27 July 2020
- Labotech International Co., Ltd.: LIC 12-20-126, 16 September 2020
- Labotech International Co., Ltd.: LIC 12-20-132, 26 September 2020
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- Labotech International Co., Ltd.: LIC 12-20-134, 26 September 2020
- Labotech International Co., Ltd.: LIC 12-20-136, 26 September 2020
- Labotech International Co., Ltd.: LIC 12-21-030, 31 March 2021
- Labotech International Co., Ltd.: LIC 12-21-031 , 31 March 2021
- Labotech International Co., Ltd.: LIC 12-21-032, 19 April 2021
- Labotech International Co., Ltd.: LIC 12-21-033, 31 March 2021
- Furuno Electric Co., Ltd.: RET-20-002, 31 March 2021
- DT&C Co., Ltd.: DREKETC2104-0104(1), 26 November 2021
- DT&C Co., Ltd.: DREKETC2104-0105(1) , 26 November 2021
- DT&C Co., Ltd.: DRSETC2105-0002, 31 May 2021
- ICR Co., Ltd.: ICRT-TR-S210014-0A, 06 April 2021
- Labotech International Co., Ltd.: LIC 12-21-061, 04 June 2021
- Labotech International Co., Ltd.: LIC 12-21-062, 04 June 2021
- Labotech International Co., Ltd.: LIC 12-21-063, 04 June 2021
- Labotech International Co., Ltd.: LIC 12-21-088, 21 July 2021
- Furuno Electric Co., Ltd.: RET-21-005 , 06 April 2021
- Labotech International Co., Ltd.: LIC 12-22-196, 22 November 2022
- Labotech International Co., Ltd.: LIC 12-22-216, 26 December 2022
- Labotech International Co., Ltd.: LIC 12-22-217, 26 December 2022
- Labotech International Co., Ltd.: LIC 12-22-218, 26 December 2022
- Labotech International Co., Ltd.: LIC 12-22-219, 26 December 2022
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- Labotech International Co., Ltd.: LIC 12-22-224, 26 December 2022
- Labotech International Co., Ltd.: LIC 12-22-225, 26 December 2022
- Labotech International Co., Ltd.: LIC 12-23-043, 04 April 2023
- Labotech International Co., Ltd.: LIC 12-23-044, 04 April 2023

- Labotech International Co., Ltd.: LIC 12-23-045, 04 April 2023
- Labotech International Co., Ltd.: LIC 12-23-056, 29 May 2023
- Labotech International Co., Ltd.: LIC 12-23-061, 29 May 2023
- Labotech International Co., Ltd.: LIC 12-23-062, 29 May 2023
- Labotech International Co., Ltd.: LIC 12-23-063, 29 May 2023
- Labotech International Co., Ltd.: LIC 12-23-064, 29 May 2023
- Labotech International Co., Ltd.: LIC 12-23-069, 29 May 2023
- Labotech International Co., Ltd.: LIC 12-23-070, 29 May 2023
- Labotech International Co., Ltd.: LIC 12-23-071, 29 May 2023
- Labotech International Co., Ltd.: LIC 12-23-156, 31 January 2024
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- Labotech International Co., Ltd.: LIC 12-23-160, 31 January 2024
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- Labotech International Co., Ltd.: LIC 12-23-172, 31 January 2024
- Labotech International Co., Ltd.: LIC 12-23-174, 31 January 2024
- Labotech International Co., Ltd.: LIC 12-23-176, 31 January 2024
- Labotech International Co., Ltd.: LIC 12-24-031, 13 May 2024
- Labotech International Co., Ltd.: LIC 12-24-035, 13 May 2024
- Labotech International Co., Ltd.: LIC 12-24-037, 13 May 2024
- Labotech International Co., Ltd.: LIC 12-24-038, 17 May 2024
- Labotech International Co., Ltd.: LIC 12-24-040, 17 May 2024
- Labotech International Co., Ltd.: LIC 12-24-042, 17 May 2024
- Labotech International Co., Ltd.: LIC 12-24-047, 20 May 2024
- Labotech International Co., Ltd.: LIC 12-24-121, 26 December 2024
- Labotech International Co., Ltd.: LIC 12-24-122, 26 December 2024
- Labotech International Co., Ltd.: LIC 12-24-123, 26 December 2024
- Labotech International Co., Ltd.: LIC 12-24-124, 26 December 2024
- Labotech International Co., Ltd.: LIC 12-24-125, 26 December 2024
- Labotech International Co., Ltd.: LIC 12-24-126, 26 December 2024

Product Documentation:

- Assembly drawings
- Bill of materials
- Block diagram
- Electrical diagrams
- Internal photos
- External photos
- Manual
- Label and label placement
- Test setup photos
- Risk assessment
- Packaging information
- RED declarations

Technical Standards and Specifications

The product is compliant with:

EN 303 413	April, 2021	V1.2.1
EN 300 328	July, 2019	V2.2.2
EN 301 489-1	March, 2017	V2.2.0
EN 301 489-17	September , 2020	V3.2.4
EN 301 843-1	November , 2017	V2.2.1
EN 302 248	November, 2016	V2.1.1
EN 62233	2005	
IEC 60945	August, 2002	Edition 4
IEC 60950-1	December, 2005	
IEC 60950-1/A1	December, 2009	
IEC 60950-1/A2	May, 2013	
IEC 62311	August, 2007	
IEC 62368-1	October, 2018	Ed. 3.0
ITU-R M.1177-4	April, 2011	
ITU-R SM.1539-1	November, 2002	
ITU-R SM.1541-6	August, 2015	
ITU-R SM.329-12	September, 2012	

Technical features and characteristics

The product includes the following features and characteristics:

Radar equipment
- Operating frequency range: 9410 MHz
- Maximum output power: 6 kW peak
- Transceiver RTR -112 and RTR-112A (DRS6A X-Class); Antenna type: XN10A; XN12A; XN13A (radar scanner)

Radar equipment
- Operating frequency range: 9410 MHz
- Maximum output power: 12 kW peak
- Transceiver RTR-113 (DRS12A X-Class); Antenna type: XN12A; XN13A (radar scanner)

Radar equipment
- Operating frequency range: 9410 MHz
- Maximum output power: 25 kW peak
- Transceiver RTR-114 (DRS25A X-Class); Antenna type: XN12A; XN13A (radar scanner)

Radar equipment
- Operating frequency range: 9380-9440 MHz
- Maximum output power: 25 W peak
- Transceiver RTR-115 (DRS4D-NXT); Antenna type: microstrip (in radome)

Radar equipment
- Operating frequency range: 9380-9440 MHz
- Maximum output power: 25 W peak
- Transceiver RTR-119 (DRS6A-NXT); Antenna type: XN10A; XN12A; XN13A (radar scanner)

Radar equipment
- Operating frequency range: 9380-9440 MHz
- Maximum output power: 100 W peak
- Transceiver RTR-125 (DRS12A-NXT); Antenna type: XN12A; XN13A (radar scanner)

Radar equipment
- Operating frequency range: 9380-9440 MHz
- Maximum output power: 200 W peak
- Transceiver RTR-126 (DRS25A-NXT); Antenna type: XN12A; XN13A (radar scanner)

Radar equipment
- Operating frequency range: 9410 MHz
- Maximum output power: 4 kW peak
- Transceiver RTR-120 (DRS4DL+); Antenna type: microstrip (in radome)

Radar equipment
- Operating frequency range: 9380-9440 MHz
- Maximum output power: 25 W peak
- Transceiver RTR-133 (DRS2D-NXT); Antenna type: microstrip (in radome)

Radar equipment
- Operating frequency range: 9410 MHz
- Maximum output power: 4 kW peak
- Transceiver RTR-128 (DRS4D X-class); Antenna type: microstrip (in radome)

IEEE 802.11b/g/n
- Operating frequency range: 2412-2472 MHz (13 channels)
- Maximum output power: 19.95 dBm EIRP average
- Maximum antenna gain: 2.0 dBi

GPS receiver
- Operating frequency range: 1575.42 MHz

The product as described in this EU-type examination includes the following type designations:

- Product description: Non-IMO RADAR equipment
- Trademark: FURUNO
- Family name: NavNet TZtouch2, NavNet TZtouch3, NavNet TZtouchXL, FR-8/10/12
- Type designation: DRS2D-NXT

- Product description: Non-IMO RADAR equipment
- Trademark: FURUNO
- Family name: NavNet TZtouch2, NavNet TZtouch3, NavNet TZtouchXL, FR-10/12
- Type designation: DRS6A X-Class

- Product description: Non-IMO RADAR equipment
- Trademark: FURUNO
- Family name: NavNet TZtouch2, NavNet TZtouch3, NavNet TZtouchXL, FR-10/12
- Type designation: DRS12A X-Class

- Product description: Non-IMO RADAR equipment
- Trademark: FURUNO
- Family name: NavNet TZtouch2, NavNet TZtouch3, NavNet TZtouchXL, FR-10/12
- Type designation: DRS25A X-Class

- Product description: Non-IMO RADAR equipment
- Trademark: FURUNO
- Family name: NavNet TZtouch2, NavNet TZtouch3, NavNet TZtouchXL, FR-10/12
- Type designation: DRS6A-NXT

- Product description: Non-IMO RADAR equipment
- Trademark: FURUNO
- Family name: NavNet TZtouch2, NavNet TZtouch3, NavNet TZtouchXL, FR-8/10/12
- Type designation: DRS4D-NXT

- Product description: Non-IMO RADAR equipment
- Trademark: FURUNO
- Family name: NavNet TZtouch2, NavNet TZtouch3, NavNet TZtouchXL, FR-10/12
- Type designation: DRS12A-NXT

- Product description: Non-IMO RADAR equipment
- Trademark: FURUNO
- Family name: NavNet TZtouch2, NavNet TZtouch3, NavNet TZtouchXL, FR-10/12
- Type designation: DRS25A-NXT

- Product description: Non-IMO RADAR equipment
- Trademark: FURUNO
- Family name: NavNet TZtouch2, NavNet TZtouch3, NavNet TZtouchXL, SFD-1010/1012, FR-10/12
- Type designation: DRS4DL+

- Product description: Non-IMO RADAR equipment
- Trademark: FURUNO
- Family name: NavNet TZtouch2, NavNet TZtouch3, NavNet TZtouchXL, FR-10/12
- Type designation: DRS4D X-Class

- Product description: MULTI FUNCTION DISPLAY
- Trademark: FURUNO
- Family name: NavNet TZtouch3
- Type designation: TZT9F/12F/16F/19F

- Product description: MULTI FUNCTION DISPLAY
- Trademark: FURUNO
- Family name: NavNet TZtouch2
- Type designation: TZT2BB

- Product description: SINGLE FUNCTION DISPLAY

- Trademark:	FURUNO
- Type designation:	SFD-1010/1012
- Product description:	MARINE RADAR
- Trademark:	FURUNO
- Type designation:	FR-8/10/12
- Product description:	MULTI FUNCTION DISPLAY
- Trademark:	FURUNO
- Family name:	NavNet TZtouchXL
- Type designation:	TZT10X/13X/16X/22X/24X/BBX