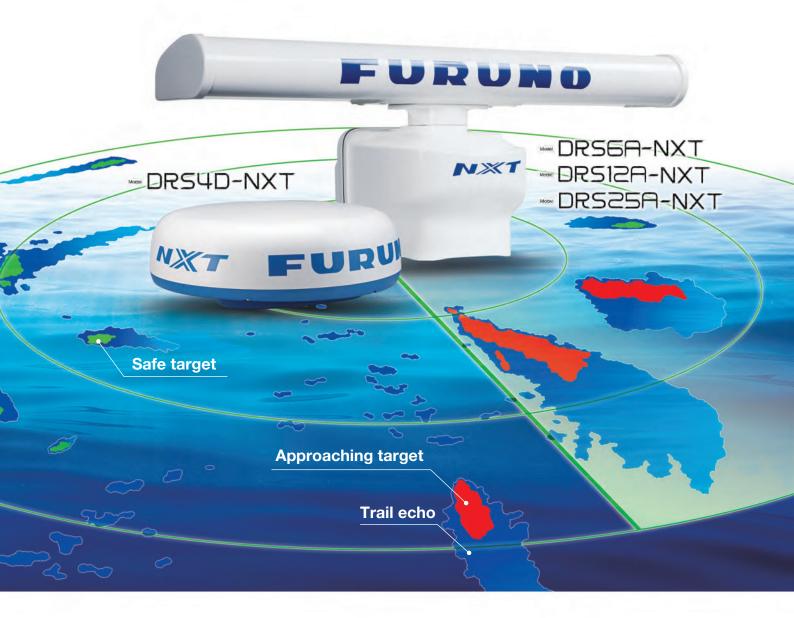


SOLID STATE DOPPLER RADAR







More details on www.furuno.com



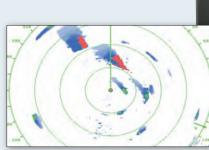
The MXT chapter in Radar

Radome type



Target Analyzer™ function utilizing Doppler technology spots hazardous targets instantly!

TARGET ANALYZER The NXT Radars are the first radars in the world to use FURUNO's exclusive Target Analyzer[™] function. Targets that are approaching your vessel automatically change color to help you identify potentially dangerous targets. Green echoes are targets that stay stationary, or are moving away from you, while red echoes are hazardous targets that are moving towards your vessel. Echoes dynamically change colors as targets approach, or get farther away from your vessel. Target Analyzer[™] improves situational awareness and can increase safety by showing you which targets to look out for. Additionnaly, when the rain mode is activated, rain echoes are shown in blue. This mode is particularly useful as it has the capability to detect targets masked by rain clutters.

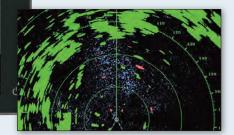


Target Analyzer[™] clearly shows hazardous targets in bright red (Echo trail activated)

NavNet TZtouch2 Approaching targets are displayed in red

Approaching targets

- Others
- Rain (Rain mode must be "on")



When the rain mode is "**on**" rain echoes are shown in blue

- Solid-State pulse compression Doppler Radar No preheating time, low energy consumption (no use of a magnetron)
- ► Revolutionary Target Analyzer[™] function instantly identifies hazardous targets
- ► Fast Target Tracking[™] and Auto Target Acquire function, up to 100 targets
- ► RezBoost[™] beam sharpening to increase the resolution

- ► Effective horizontal beam* Can reach a value of 0.7° with DRS6A-NXT (XN13A), and 2.0° with DRS4D-NXT (when using RezBoost[™]) *the lower the better
- Bird Mode to find the best fishing grounds by tracking birds
- Simple installation, no need to open the radome (DRS4D-NXT only), external PSU is not required
- New smart-connector cable for retrofitting existing DRS cable installations (DRS4D-NXT only)

technology !

FURUND

XT

Enhanced analytics and improved detection to keep your journey safe

DRS6A-NXT DRS12A-NXT DRS25A-NXT

Open array type

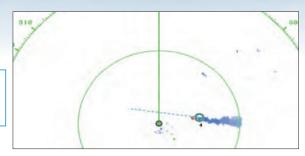
*3 antenna lengths : 3.5 ft (XN10A), 4 ft (XN12A), 6 ft (XN13A)

Fast Target Tracking[™] and Auto Target Acquire function

With **Fast Target Tracking™** activated, it only takes a few seconds for a vector to be displayed once the target is selected, manually or automatically with the **Auto Target Acquire function**.

When the **Auto Target Acquire** function is **on**, approaching targets within 3NM range from own ship, which are potentially hazardous, are automatically acquired by Doppler calculation and will trigger an alarm^{*}.

Together, Up to 100 targets can be acquired simultaneously, increasing considerably the safety and simplifying estimation of other vessel's course and speed.



Approaching vessel with target vector and trail

*TCPA setting required

RezBoost[™] beam sharpening

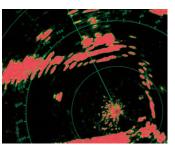


FURUNO's exclusive RezBoost™ technology has been incorporated into our Radar units for enhanced resolution and impressive performance.

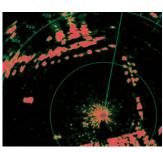
With RezBoost[™] set to MAX, the sharpness

offers an incredibly detailed image with more targets and less clutter.

(the pictures show images captured by the DRS4D-NXT with Standard RezBoost[™] and Max RezBoost[™])

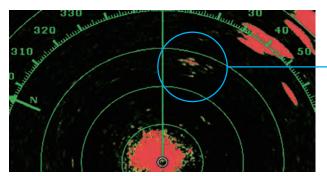


RezBoost[™] standard (DRS4D-NXT)



RezBoost™ Enhanced, MAX setting (DRS4D-NXT)

Bird Mode





NXT Radars feature a new Bird Mode that helps you identify birds gathering around schools of fish at the sea surface.The Bird Mode adjusts the gain and sea settings automatically for optimal visibility.

Bird echoes

Actual scene

SPECIFICATIONS OF

DRS6A-NXT/ Model DRS4D-NXT Model

FURUNG

ANTENNA

DRS6A/DRS12A/DRS25-NXT Vertical beam width Horizontal beam width Antenna rotation speed

DRS4D-NXT Vertical beam width Horizontal beam width

Antenna rotation speed

RADAR FUNCTION

Output power

Tx frequency

Slotted waveguide array 22 2.3° (XN10A), 1.9° (XN12A), 1.4° (XN13A) 24/36/48 rpm range coupled or 24 rpm fixed Radome (24") O NXT FU 25°(-3dB) 3.9° (-3dB) Adjustable between 2.0° and 3.9° (effective with RezBoost control)

24/36/48 rpm range coupled or 24 rpm fixed (select)

25 W (DRS4D-NXT) 100W (DRS12A-NXT) / 200W (DRS25A-NXT) 3 channel, auto/manual selectable

Channel	PON (MHz)	Q0N (MHz)
1	9380	9400
2	9400	9420
3	9420	9440

DRS6A/DRS12A/DRS25A-NXT: 10 m, DRS4D-NXT: 20 m

DRS6A/DRS12A/DRS25A-NXT: 10 m, DRS4D-NXT: 20 m

DRS6A/DRS12A/DRS25A-NXT: 12/24 VDC: 9.5/5.0 A max.

DRS6A/DRS12A/DRS25A-NXT: 95% or less at +40 °C

1% of range in use or 10 m, whichever is the greater

LAN: 1 port, Ethernet, 100Base-TX, RJ45

GGA, GLL, GNS, HDG, HDM, HDT, RMA,

DRS4D-NXT: 12-24 VDC: 2.5-1.3 A

DRS4D-NXT: 93% or less at +40 °C DRS6A/DRS12A/DRS25A-NXT: IP56

-25 °C to +55 °C (storage: -30 °C to +70 °C)

	DRS6A-NXT	DRS12A/DRS25A-NXT	DRS4D-NXT
RangeScales[NM]	0.0625-72	0.0625-96	0.0625-48
Pulselength(P0N)[us]	0.04-1.2	0.04-1.2	0.08-1.2
Pulselength(Q0N)[us]	5-48	5-48	5-18
PRR[Hz]	700-2000	700-2000	1100
Tx frequency[MHz]		9380-9440	·

±1°

IEC61162-1/2

RMC, THS, VHW, VTG

DRS4D-NXT: IP26 IEC 60945 Ed.4

Minimum range Range resolution Range accuracy Bearing accuracy

INTERFACE

Number of ports Data sentences Input

POWER SUPPLY

ENVIRONMENT

Ambient temperature Relative humidity

Degree of protection

Vibration

EOUIPMENT LIST

DRS6A-NXT/DRS12A-NXT/DRS25A-NXT Standard

Option	
DRS4D-NXT	
Standard	

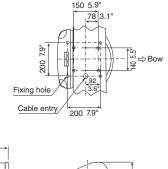
Option

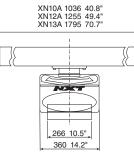
Scanner Unit (RSB-137-119), Radiator, Installation Materials, Spare Parts LAN cable 2/5/10 m, Joint Box (TL-CAT-012) Radar Sensor (RSB-135-115), Installation Materials, Spare Parts Radome Mount (OP03-208).

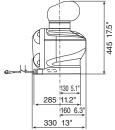
(OP03-239)LAN cable 2/5/10 m, Joint Box (TL-CAT-012)



DRS6A/DRS12A/DRS25A-NXT XN10A 20 kg 44.1 lb XN12A 21 kg 46.3 lb XN13A 23 kg 50.7 lb 3.5 ft Open Array NXT Radar 22 kg 48.5 lb 4 ft Open Array NXT Radar 25 kg 55.1 lb 6 ft Open Array NXT Radar 27 kg 59.5 lb







225 8.9

(125)

(4.9")

⇒Bow

4-M10

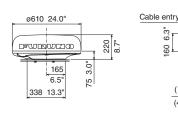
Fixing holes

60 +

2.4

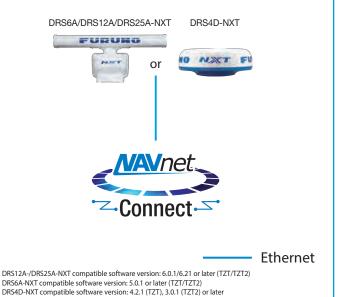
160 6.3

DRS4D-NXT 7.3 kg 16.1 lb



Interconnection Diagram

Radar Sensor



Beware of similar products

All brand and product names are registered trademarks, trademarks or service marks of their respective holders.

FURUNO ELECTRIC CO., LTD.

FURUNO U.S.A., INC. FURUNO PANAMA S.A. Republic of Pan furuno.com.pa FURUNO (UK) LIMITED U.K. | www.furuno.co.ul FURUNO NORGE A/S Norway | www.furuno.no

FURUNO DANMARK A/S FURUNO SVERIGE AB

FURUNO FINLAND OY www.furuno FURUNO POLSKA Sp. Z o.o. Poland | www.furuno.pl FURUNO DEUTSCHLAND GmbH nany | www.furuno.de

FURUNO FRANCE S.A.S. FURUNO ESPAÑA S.A. FURUNO ITALIA S.R.L. FURUNO HELLAS S.A. Greece | www.furuno.gi FURUNO (CYPRUS) LTD Cyprus | www.furuno.com.cy

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

FURUNO EURUS LLC FURUNO SHANGHAI CO., LTD. FURUNO CHINA CO., LTD. Hong Kong | www.furuno.co

FURUNO SINGAPORE

Singapore | www.furuno.sg

1-C-20103LB Catalogue No. CA000001410

PT FURUNO ELECTRIC INDONESIA