

SOLID STATE DOPPLER RADAR

Model DRS6A-NXT







The MXT chapter in Radar







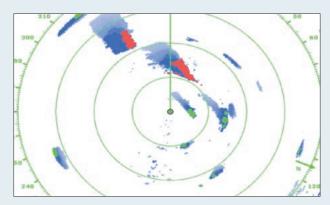
Target Analyzer[™] function utilizing Doppler technology spots hazardous targets instantly!

The DRS4D-NXT and the DRS6A-NXT 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.



NavNet TZTouch2 On the screen, approaching targets are displayed in red

- 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



Target Analyzer[™] clearly shows both Safe and Hazardous targets (Echo trail activated)

- ► High bearing resolution* Can reach 0.7° with DRS6A-NXT, and 2.0° with DRS4D-NXT (when using RezBoostTM) *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

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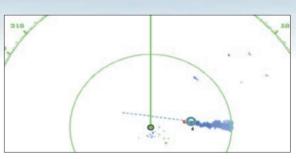
Enhanced analytics and improved detection to keep your journey safe

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

Open array type

RezBoost™ beam sharpening

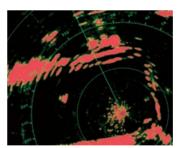


FURUNO's exclusive RezBoost™ technology has been incorporated into our Radar units for enhanced resolution and impressive performance.

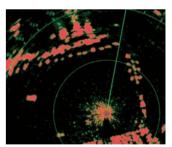
With RezBoost[™] set to MAX, the sharpness offers an incredibly detailed image with more targets and

less clutter.

(the pictures show images captured by the DRS4D-NXT with Standard RezBoostTM and Max RezBoostTM)

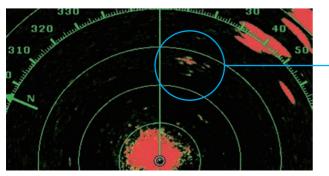


RezBoost[™] standard (DRS4D-NXT)



RezBoost™ Enhanced, MAX setting (DRS4D-NXT)

Bird Mode





DRS6A-NXT and DRS4D-NXT feature a new Bird Mode that helps you identify birds gathering around schools of fish at the sea surface. 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-NXT Vertical beam width Horizontal beam width Antenna rotation speed Slotted waveguide array 2.3° (XN10A), 1.9° (XN12A), 1.4° (XN13A) 24/36/48 rpm range coupled or 24 rpm fixed

DRS4D-NXT Vertical beam width Horizontal beam width Radome (24") IO 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)

Antenna rotation speed **RADAR FUNCTION**

Tx frequency

3 channel, auto/manual selectable Channel PON (MHz) QON (MHz) 9400 9380 9420 2 9400 9420 9440 3

25 W Output power

Pulse Length, Pulse Repetion Rate and Range Scales

22

	DRS6A-NXT	DRS4D-NXT
Range Scales[NM]	0.0625-72	0.0625-36
Pulse length(P0N)[us]	0.04-1.2	0.08-1.2
Pulse length(Q0N)[us]	5-48	5-18
PRR[Hz]	700-2000	1100
Tx frequency[MHz]	9380-9440	

Minimum range Range resolution Range accuracy Bearing accuracy

DRS6A-NXT: 10 m, DRS4D-NXT: 20 m DRS6A-NXT: 10 m, DRS4D-NXT: 20 m 1% of range in use or 10 m, whichever is the greater $+1^{\circ}$

INTERFACE

Input

Number of ports LAN: 1 port, Ethernet, 100Base-TX, RJ45 Data sentences IEC61162-1/2 GGA, GLL, GNS, HDG, HDM, HDT, RMA, RMC, THS, VHW, VTG

> DRS6A-NXT: 12/24 VDC: 9.5/5.0 A max. DRS4D-NXT: 12-24 VDC: 2.5-1.3 A

ENVIRONMENT

POWER SUPPLY

Ambient temperature **Relative humidity**

Degree of protection

Vibration

EQUIPMENT LIST

DRS6A-NXT Standard

Option DRS4D-NXT Standard

Option

DRS6A-NXT: 95% or less at +40 °C DRS4D-NXT: 93% or less at +40 °C DRS6A-NXT: IP56 DRS4D-NXT: IP26 IEC 60945 Ed.4

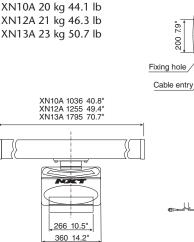
-25 °C to +55 °C (storage: -30 °C to +70 °C)

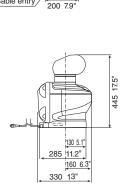
Scanner Unit (RSB-137-119), Radiator, Installation Materials, Spare Parts LAN cable 2/5/10 m, Joint Box (TL-CAT-012)

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)

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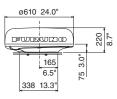


50 5.9

,78 3.1

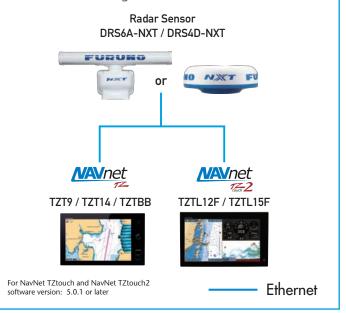
ື່⇔Bow

DRS4D-NXT 7.3 kg 16.1 lb



225 8.9 Cable entry ŝ ⇒Bow 09 4-M10 60 + Fixing holes (125)2.4 (4.9") 160 6.3

Interconnection Diagram



Beware of similar products

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Antenna Unit DRS6A-NXT