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FURUNO

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SPECIFICATIONS OF

Model DRS6A-NXT / Mode

ANTENNA

DRS6A-NXT	Slotted waveguide array	
Vertical beam width	22°	
Horizontal beam width	2.3° (XN10A), 1.9° (XN12A), 1.4° (XN13A)	
Antenna rotation speed	24/36/48 rpm range coupled or 24 rpm fixed	
DRS4D-NXT	Radome (24")	
Vertical beam width	25°(-3dB)	
Horizontal beam width	3.9° (-3dB) Adjustable between 2.0° and 3.9° (effective with RezBoost control)	
Antenna rotation speed	24/36/48 rpm range coupled or 24 rpm fixed (select)	

RADAR FUNCTION

Tx frequency	3 channel, auto/manual selectable	
	Channel	P0N (MHz)
	1	9380
	2	9400
	3	9420
Output power	25 W	
Pulse Length, Pulse Repetion Rate and Range Scales		
	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	DRS6A-NXT: 10 m, DRS4D-NXT: 20 m	
Range resolution	DRS6A-NXT: 10 m, DRS4D-NXT: 20 m	
Range accuracy	1% of range in use or 10 m, whichever is the greater	
Bearing accuracy	±1°	

INTERFACE

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

POWER SUPPLY

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

ENVIRONMENT

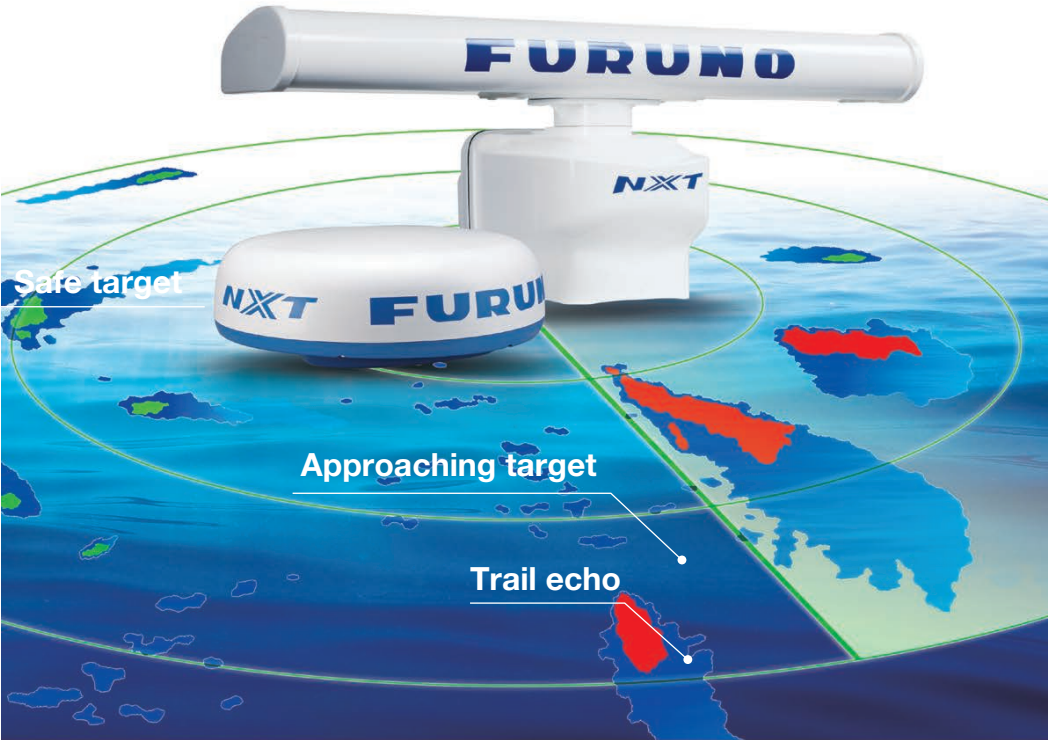
Ambient temperature	-25 °C to +55 °C (storage: -30 °C to +70 °C)
Relative humidity	DRS6A-NXT: 95% or less at +40 °C DRS4D-NXT: 93% or less at +40 °C
Degree of protection	DRS6A-NXT: IP56 DRS4D-NXT: IP26
Vibration	IEC 60945 Ed.4

EQUIPMENT LIST

DRS6A-NXT	Scanner Unit (RSB-137-119), Radiator, Installation Materials, Spare Parts
Standard	
Option	LAN cable 2/5/10 m, Joint Box (TL-CAT-012)
DRS4D-NXT	Radar Sensor (RSB-135-115), Installation Materials, Spare Parts
Standard	
Option	Radome Mount (OP03-208), (OP03-239)LAN cable 2/5/10 m, Joint Box (TL-CAT-012)

SOLID STATE DOPPLER RADAR

Model DRS6A-NXT NEW



The **NXT** chapter in Radar technology !

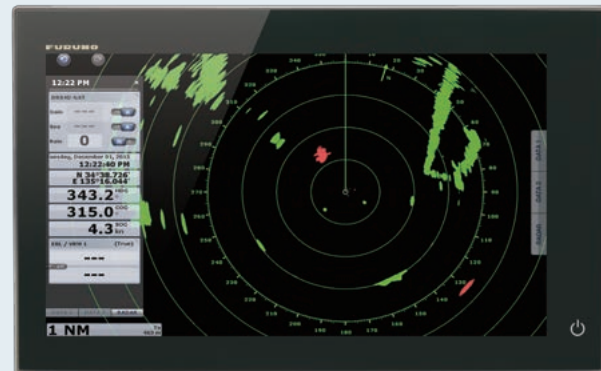
DRS4D-NXT

Radome type



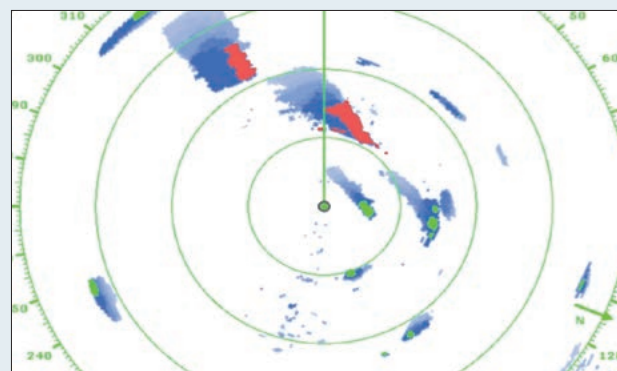
Target Analyzer™ function utilizing Doppler technology spots hazardous targets instantly!

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



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

► 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

► High bearing resolution*

Can reach 0.7° with DRS6A-NXT, 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)

Enhanced analytics and improved detection to keep your journey safe

DRS6A-NXT

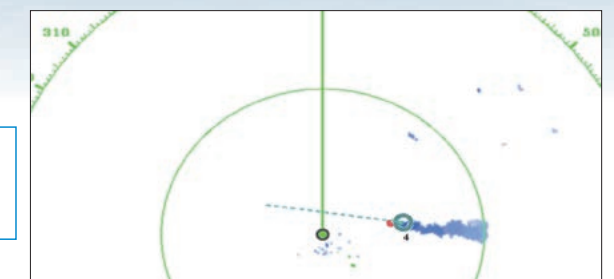
Open array type

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

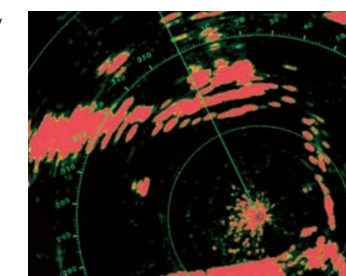
RezBoost™ beam sharpening



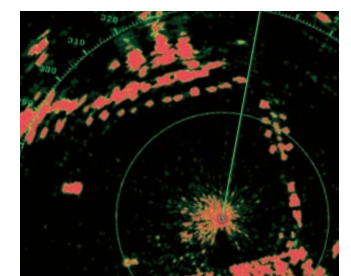
FURUNO's exclusive RezBoost™ technology has been incorporated into our Radar units for enhanced resolution and impressive performance.

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™)

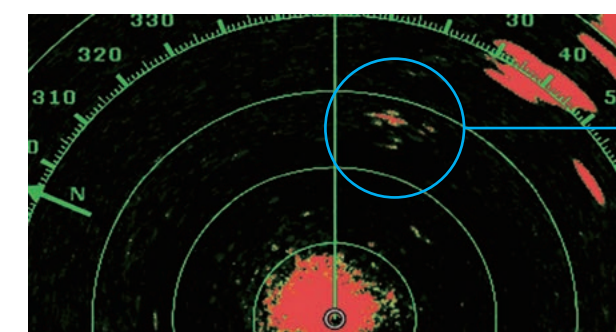


RezBoost™ standard (DRS4D-NXT)



RezBoost™ Enhanced, MAX setting (DRS4D-NXT)

Bird Mode



Bird echoes



Actual scene

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.

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