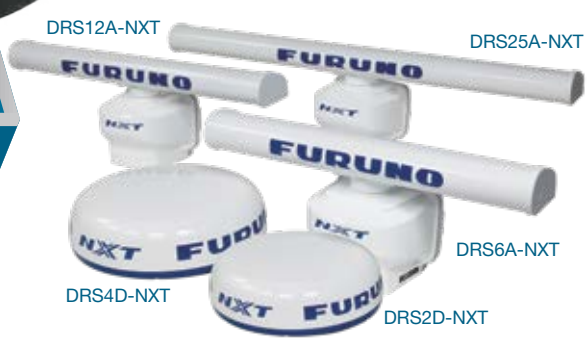
FURUNO

DRS-NXT SERIES

SOLID-STATE DOPPLER RADAR





www.furuno.com



DRS2D-NXT
DRS4D-NXT

KEY FEATURES:

- High-power 100/200W output (DRS12A/25A-NXT)
- 3.5/4/6' open array antenna options (DRS6A/12A/25A-NXT)
- Compatible with NavNet TZtouch, TZtouch2, and TZtouch3
- Solid-State pulse compression Doppler Radar with no preheating time and low energy consumption (no magnetron required)
- 24" and NEW 19" Radome Antenna options (DRS4D-NXT and DRS2D-NXT)
- Revolutionary Target Analyzer™ function instantly identifies hazardous targets in red
- Fast Target Tracking and Auto Target Acquire function
- RezBoost™ beam sharpening to increase resolution
- Bird Mode to find the best fishing grounds by tracking birds
- Rain Mode separates rain cells in blue from actual targets
- Simple installation, single power/network cable connection

DRS-NXT
SOLID-STATE D

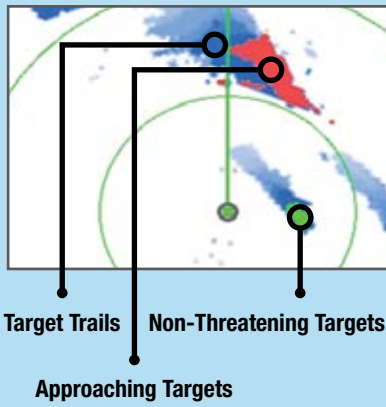
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TARGET ANALYZER

Doppler

Target Analyzer™ function utilizing Doppler technology spots hazardous targets instantly

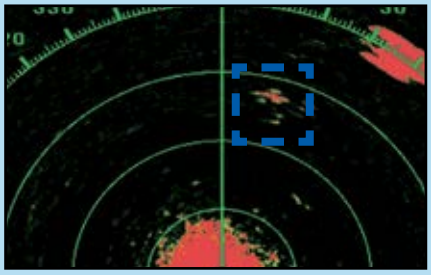
The DRS-NXT Radar series was the first in the world to leverage Furuno's exclusive Target Analyzer™ function. Targets approaching your vessel automatically change color to help you identify potentially dangerous targets. Green echoes are stationary targets or targets moving away from your vessel, while red echoes are hazardous targets that are moving towards your vessel. Echoes dynamically change color 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 monitor.



BIRD MODE

Bird Mode gets you on the fish faster than other Radar

The DRS-NXT series features an enhanced 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.



Radar image



Actual scene

Targ
Track

AUT

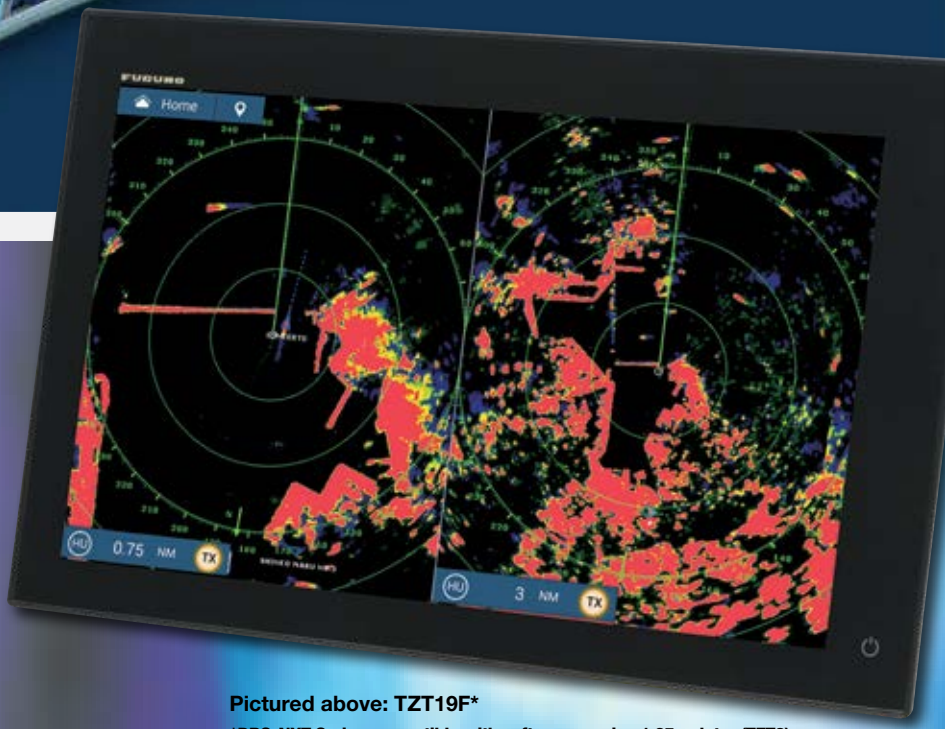


DRS6A-NXT
DRS12A-NXT
DRS25A-NXT

T SERIES
OPPLER RADAR

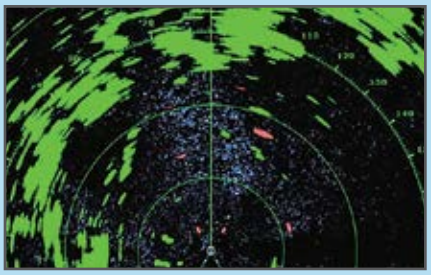
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Pictured above: TZT19F*

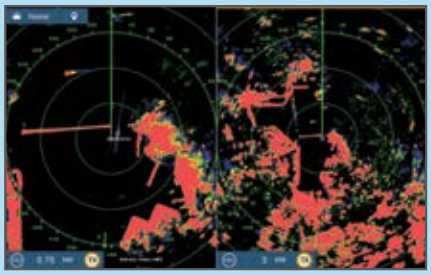
***DRS-NXT Series compatible with software version 1.05 or later (TZT3)**



In the unique Rain Mode setting, rain cells are displayed as blue targets and lets you see through a storm cell to identify targets that would normally be hidden in the rain.

Dual Range Mode

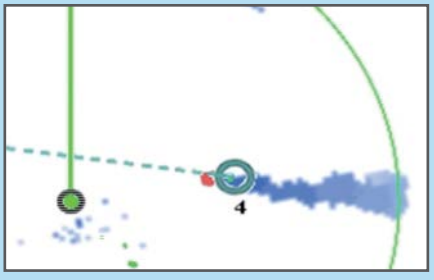
Simultaneous scanning technology allows dual-progressive scan to display and update two Radar images, both long and short range. Autonomous control over gain and anti-clutter can be performed on each Radar presentation. This can be used to have one screen with the gain set to locate birds and buoys, while you use the other Radar screen to navigate.



Left Range: 0.75NM **Right Range: 3NM (Max. range 12NM)**

Track up to 100 Targets with 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 manually selected, or automatically selected with the Auto Target Acquire function. When the Auto Target Acquire function is on, potentially hazardous targets within 3NM range from own ship are automatically acquired by Doppler calculation and will trigger an alarm*. Up to 100 targets can be acquired through simultaneous automatic, manual, and GZ target selections, considerably increasing safety and simplifying estimation of other vessels' course and speed. *TCPA settings required

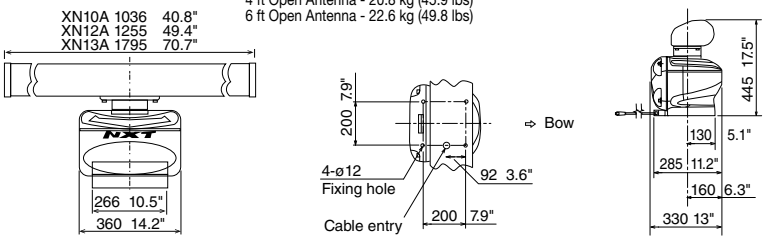


Approaching vessel with target vector and echo trail

MODEL		DRS2D-NXT	DRS4D-NXT	DRS6A-NXT	DRS12A-NXT	DRS25A-NXT
ANTENNA						
Type		ø488 mm Radome (19")	ø610 mm Radome (24")	ø1036 mm Open (3.5') ø1255 mm Open (4') ø1795 mm Open (6')		
Beam Width	Horizontal	5.2° typical (-3 dB) Adjustable between 2.6° and 5.2° (effective with RezBoost™ control)	3.9° typical (-3 dB) Adjustable between 2° and 3.9° (effective with RezBoost™ control)	2.3°/1.9°/1.35° Adjustable between 0.7° and 1.35° (effective with RezBoost™ control, 6ft Open Array only)		
	Vertical	25°		22°		
Antenna Rotation Speed		24*/36/48 rpm range coupled or 24 rpm fixed *In dual-range mode, speed is limited to 24 rpm				
RF TRANSCEIVER						
Frequency		CH1: 9380 MHz (P0N), 9400 MHz (Q0N) CH2: 9400 MHz (P0N), 9420 MHz (Q0N) CH3: 9420 MHz (P0N), 9440 MHz (Q0N)				
Pulselength & PRR		P0N: 0.08µs to 1.2µs/700 to 1100 Hz Q0N: 5µs to 18µs/700 to 1100 Hz		P0N: 0.04µs to1.2µs/ 550 Hz to 2000 Hz Q0N: 5µs to 48µs/ 550 Hz to 2000 Hz		
Peak Output Power		Solid-State, 25W			Solid-State, 100W	Solid-State, 200W
Range Scales		0.0625 to 48NM* *In dual-range mode, range is limited to 12NM		0.0625 to 72NM* *In dual-range mode, range is limited to 12NM	0.0625 to 96NM* *In dual-range mode, range is limited to 12NM	
Bearing Accuracy		±1°				
INTERFACE						
Ports		LAN: 1 port, Ethernet, 100Base-TX, RJ45				
ENVIRONMENT						
Temperature		-25°C to +55°C, Waterproofing: IP26		-25°C to +55°C, Waterproofing: IP56		
POWER SUPPLY						
VDC		12-24 VDC, 2.5-1.3A		12/24 VDC, 9.5/5.0A	24 VDC, 5.0A	24 VDC, 5.6A
EQUIPMENT LIST						
Standard		Radar Sensor (RSB-147-133), Installation Materials, Spare Parts	Radar Sensor (RSB-135-115), Installation Materials, Spare Parts	Scanner Unit (RSB-137-119/125/126), Radiator, Installation Materials, Spare Parts		
Option		Radome Mount (OP03-208 for DRS4D-NXT), Retrofit Kit (OP03-239) 2/5/10m, Antenna Cable 10/15/20/30m, Joint Box (TL-CAT-012)		LAN Cable 2/5/10m, Antenna Cable 10/15/20/30m, Joint Box (TL-CAT-012)		

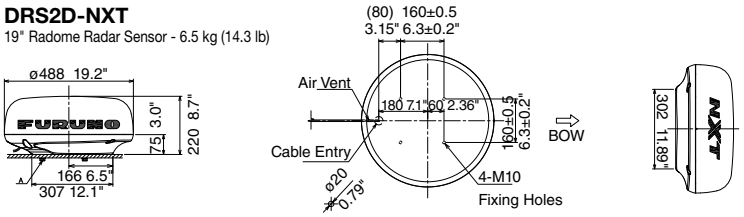
DRS6A/12A/25A-NXT

3.5 ft Open Antenna - 18.8 kg (41.5 lbs)
4 ft Open Antenna - 20.8 kg (45.9 lbs)
6 ft Open Antenna - 22.6 kg (49.8 lbs)



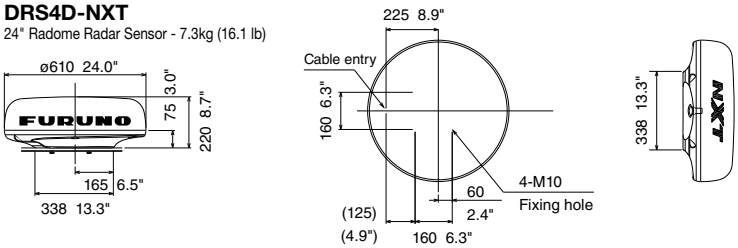
DRS2D-NXT

19" Radome Radar Sensor - 6.5 kg (14.3 lb)

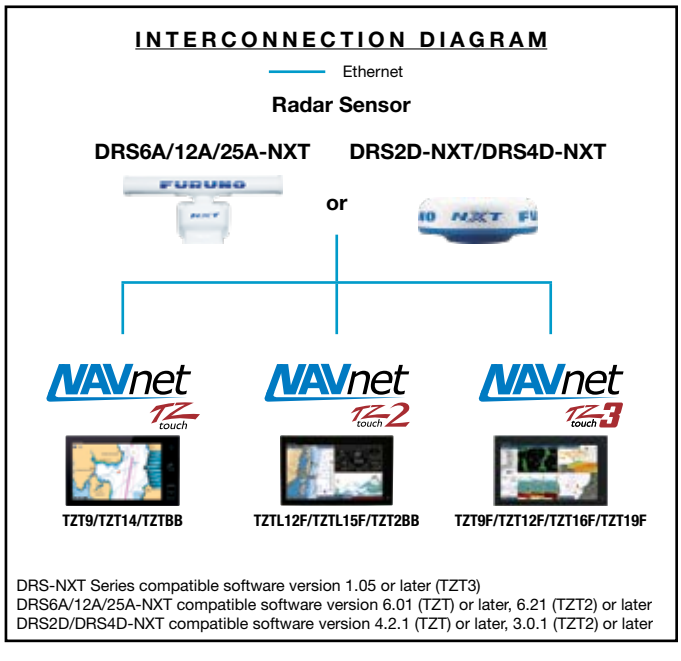


DRS4D-NXT

24" Radome Radar Sensor - 7.3kg (16.1 lb)



INTERCONNECTION DIAGRAM



DRS-NXT Series compatible software version 1.05 or later (TZT3)
DRS6A/12A/25A-NXT compatible software version 6.01 (TZT) or later, 6.21 (TZT2) or later
DRS2D/DRS4D-NXT compatible software version 4.2.1 (TZT) or later, 3.0.1 (TZT2) or later

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