SPECIFICATIONS OF

Model DRS6A-NXT / **Model** DRS4D-NXT

FURUNO

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

Output power 25 W
Pulse Length, Pulse Repetition 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
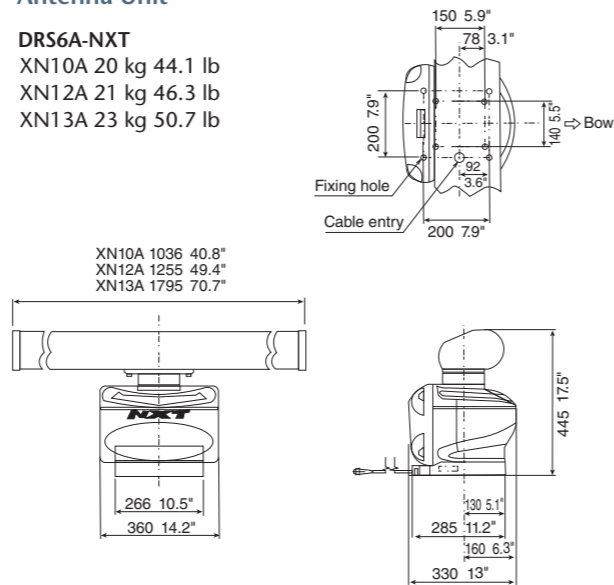DRS4D-NXT: IP26
Vibration IEC 60945 Ed.4

EQUIPMENT LIST

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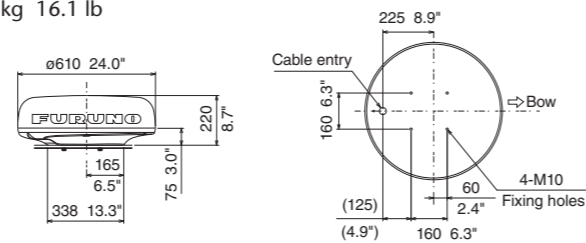Option LAN cable 2/5/10 m, Joint Box (TL-CAT-012)
DRS4D-NXT
Standard Radar Sensor (RSB-135-115), Installation Materials,
Spare Parts
Option Radome Mount (OP03-208),
(OP03-239)LAN cable 2/5/10 m, Joint Box (TL-CAT-012)
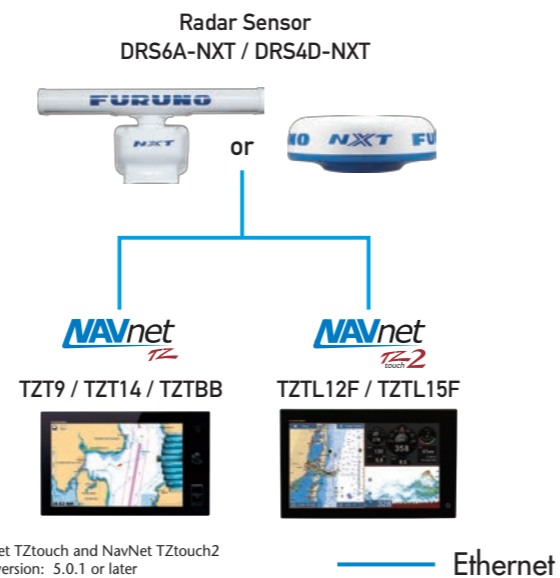
Antenna Unit

DRS6A-NXT
XN10A 20 kg 44.1 lb
XN12A 21 kg 46.3 lb
XN13A 23 kg 50.7 lb

150 5.9"
.78 3.1"
200 7.9"
140 5.5"
Bow
Fixing hole
Cable entry
92
-3.6
200 7.9"

XN10A 1036 40.8"
XN12A 1255 49.4"
XN13A 1795 70.7"

266 10.5"
360 14.2"

445 17.5"
130 5.1"
285 11.2"
160 6.3"
330 13"

DRS4D-NXT
7.3 kg 16.1 lb

ø610 24.0"
220 8.7"
165 6.5"
75 3.0"
338 13.3"

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

Interconnection Diagram

Radar Sensor
DRS6A-NXT / DRS4D-NXT

FURUNO NXT or NXT FURUNO

NAVnet TZ
TZT9 / TZT14 / TZTBB

NAVnet touch2
TZTL12F / TZTL15F

For NavNet TZtouch and NavNet TZtouch2
software version: 5.0.1 or later

——— Ethernet

SOLID STATE DOPPLER RADAR

Model DRS6A-NXT
Model DRS4D-NXT

NEW

FURUNO NXT

NXT FURUNO

Safe target
Approaching target
Trail echo

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

NAVnet Connect
Doppler
UHD Ultra High Definition
RezBoost
TARGET ANALYZER
AUTO
Target Tracking
Ethernet Plug&Play

The NXT chapter in Radar technology!

Enhanced analytics and improved detection to keep your journey safe

DRS4D-NXT
Radome type

DRS6A-NXT
Open array type

Doppler

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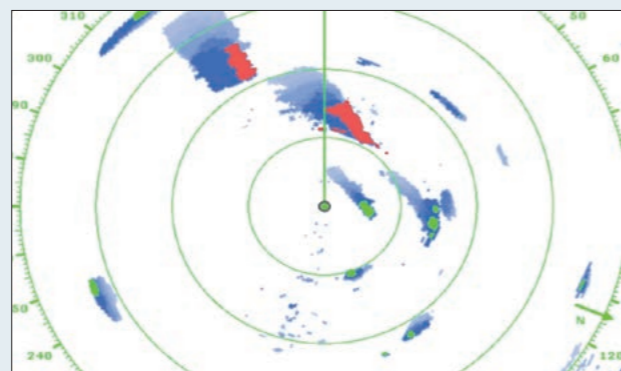
Target Analyzer™ function utilizing Doppler technology spots hazardous targets instantly!

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.
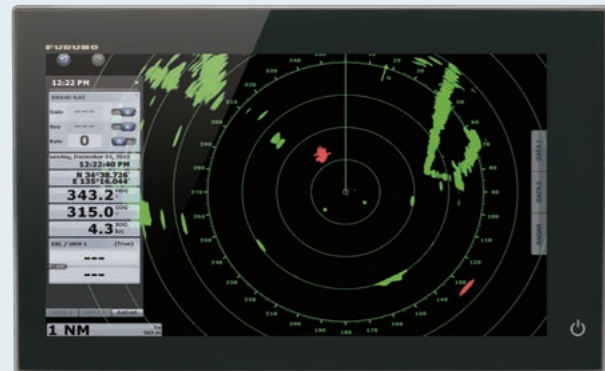
NavNet TZTouch2

**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)**

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.
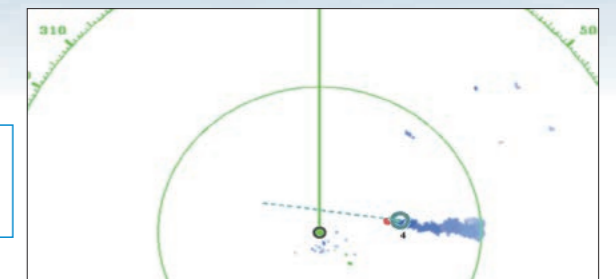
Approaching vessel with target vector and trail
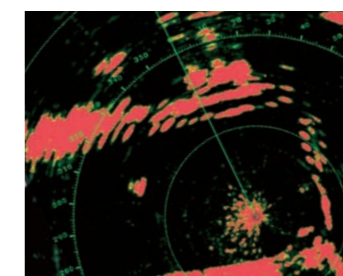
*TCPA setting required

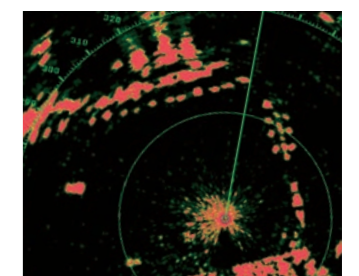## RezBoost™ beam sharpening

RezBoost

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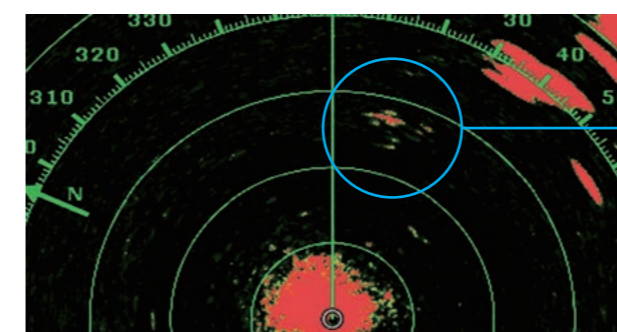(the pictures show images captured by the DRS4D-NXT with Standard RezBoost™ and Max RezBoost™)

RezBoost™ standard (DRS4D-NXT)

RezBoost™ Enhanced, MAX setting (DRS4D-NXT)

Bird Mode

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