

RADAR

NavNet 3D Radar

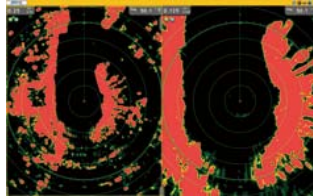
NavNet 3D's new Ultra High Definition (UHD™) Digital Radar technology sets a new standard in marine radar. With highly advanced digital sensor and signal processing technologies, UHD™ Digital Radar greatly enhances situational awareness.



- ▶ Enhanced detection both in long and short range by Digital Radar Sensor
- ▶ Seamless zoom in/out radar range scales (MFD8B)
- ▶ Enhanced auto gain and anti-clutter controls and auto tuning
- ▶ 48 rpm antenna rotation speed for HSC and river applications
- ▶ Adaptive antenna rotation speed according to pulse length
- ▶ Spot-on radar overlay on both 2D/3D chart presentation with aid from heading sensors
- ▶ True echo trail shows an afterglow of moving radar targets
- ▶ True Color Radar shows density of targets (32 color levels for the MFD8 and MFD12, 256 color levels for the MFD8B)
- ▶ Radar Guard Zone and Watchman features alert you to potential danger
- ▶ Dual VRM (Variable Range Markers) and dual EBL (Electric Bearing Lines) give distance and bearing indications
- ▶ Off-center display allows you to focus on specific direction with a simple press of the cursor pad
- ▶ IP address is automatically assigned to deliver Plug and Play installation

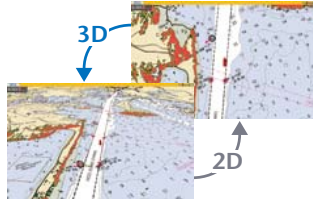
Real-time Dual Range Radar presentation thanks to dual progressive scan method

NavNet 3D simultaneous scanning technology allows dual progressive scan to display and update two radar pictures of long and short range at the same time, as opposed to alternate update of two different radar range scales in typical conventional dual range radar. Autonomous control over gain and anti-clutter can be performed on each radar display in the dual radar mode. 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.



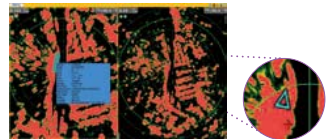
Radar-Chart overlay

Radar image of spot-on accuracy can be overlaid with the chart information. Not only is it done with the conventional 2D chart format, but also it can now be projected onto 3D chart presentation! Radar range scales in the radar-chart overlay entirely depend on the range scales in the chart presentation, allowing you to view the radar image on the chart information in whatever magnification level you desire. (Appropriate heading sensor is required.)



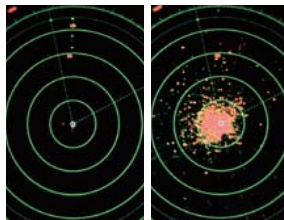
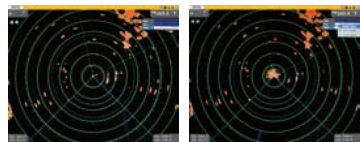
ARPA/AIS target tracking

Automatic radar plotting utility is one of the standard features of the NavNet 3D radar. Up to 30 targets can be simultaneously acquired and tracked to show you the heading direction and speed of the targets. AIS target tracking can also be performed when the FA-30/50/150 is interfaced with NavNet 3D.



Real-Time Digital Auto Gain/Sea Controls

NavNet 3D employs revolutionary real-time digital auto Gain/Sea controls to deliver crystal clear radar presentation. With this new technology, NavNet 3D computes and applies an adaptive omni-directional anti-clutter filter with variable intensity depending on bearing.



Auto Gain/Sea Controls On

Auto Gain/Sea Controls Off



Radar Sensors

The NavNet 3D radar processor is incorporated into a Radome antenna or a gearbox for an open antenna. Simply plug in Ethernet and power cable connectors, and you will have a digital radar sensor within your NavNet 3D network. The IP address is automatically assigned to the radar sensor upon plugged into the network, facilitating real Plug and Play installation.

NavNet 3D Radar Sensor Options

	DRS2D	DRS4D	DRS4A	DRS6A	DRS12A	DRS25A
Output Power	2.2 kW	4 kW	4 kW	6 kW	12 kW	25 kW
Size	19 inch	24 inch	3.5 ft	4 ft	4 ft/6 ft	4 ft/6 ft
Antenna Type	Radome	Radome	Open	Open	Open	Open
Beam Width	Horizontal	5.2°	4.0°	2.3°	1.9°	1.9°/1.4°
	Vertical	25°	25°	22°	22°	22°/22°
Max. Range	24 nm	36 nm	48 nm	64 nm	72 nm	96 nm
48 rpm Capability	●	●	●	●	●	●

FURUNO CAN bus base network

The NavNet 3D radar sensor incorporates a CAN bus port to which FURUNO's CAN bus sensors such as the WS-200 Weather Station and the SC-30 Satellite Compass can be directly connected. Power for these networked CAN bus sensors is supplied from the CAN bus. This unique feature allows for flexible installation of multiple CAN bus sensors without the need to run cables all the way to the main processor unit. CAN bus data can be converted and distributed throughout the NavNet 3D Ethernet network.

