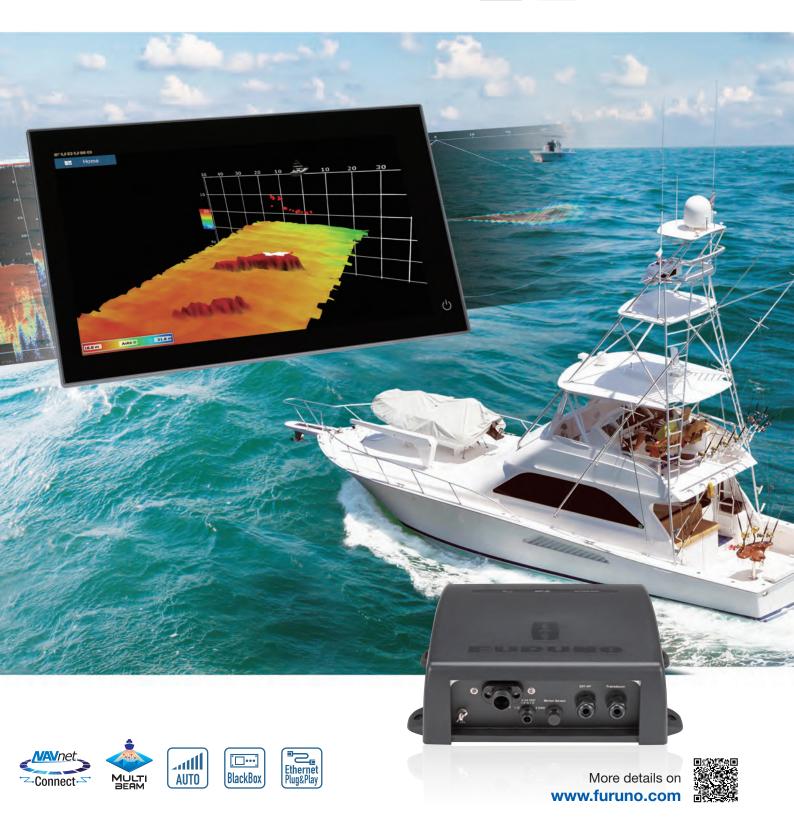


NETWORK MULTI BEAM SONAR



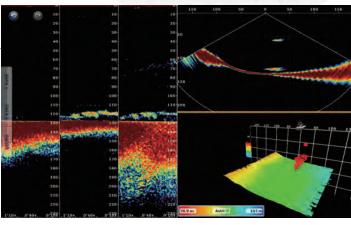
Revolutionary 3D multi beam sonar utilizing FURUNO's a Display deep and wide water columns and seabeds in astonishing high definition detail in real time



Visibly see the landscape and fish schools at great depths in amazing detail

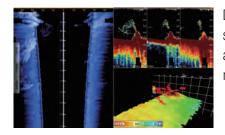
Turn your NavNet TZtouch MFD into

a multi beam sonar that can see 120-degrees port to starboard, allowing you to see the depth and direction fish schools are moving, while displaying the seabed condition in real time.



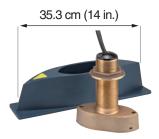
Depth: 130 m

- Sidebar detection range is up to 200 m (over 650 ft)* in a 120-degree swath port and starboard direction.
 *Depending on bottom, water and installation conditions.
- Deep water, main beam penetration directly under the boat is approx. 300 m (over 980 ft)*. *Depending on bottom, water and installation conditions.
- Customize the display according to your needs.



Depending on the situation and preference, a combination of screen modes can be displayed.

► The compact transducer allows easy installation.





Thru-hull mount transducer B54 or SS54

Transom mount transducer TM54

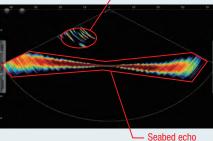
- The built-in motion sensor (standard supply) stabilizes the display to give clear and stable images even under rough sea conditions.
- Available on windows OS with TZ professional* * Software version 3.3 or later.

dvanced multi beam technology

What is multi beam sonar?

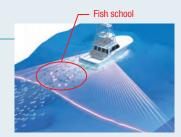
The DFF-3D is an innovative tool for efficient fish location and seabed profile surveying, utilizing new multi beam technology. Highly detailed images are derived from the combination of an advanced signal processing system and an amazingly compact multi-beam transducer.

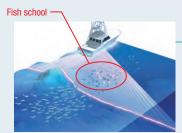




Cross Section

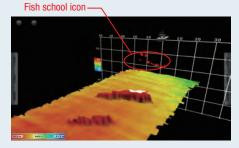
Cross section displays the real-time sea column echo in 120 degrees port and starboard. This mode aids in instantly understanding the distribution of bait fish and the water column condition.





3D Sounder History

The 3D sounder history provides an intuitive and easy to understand 3D image of the seafloor, along with fish school icons. This mode is useful in a variety of situations, such as selecting a fishing hot spot and assessing the seabed condition.



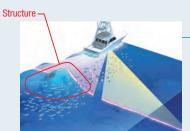
- Fish school -

A single (dire fish finder in display helps

Triple/Single Beam Sounder

A single (directly under boat) or triple direction (middle, left and right) fish finder image are displayed simultaneously. The Triple beam display helps to understand the depth of fish targets and the seabed condition in each direction, as well as the direction the target fish are moving. Each beam angle and beam width are selectable.

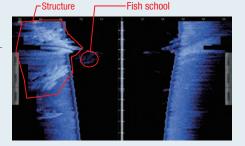




Side Scan

Side scan clearly displays the shape of structure as a high definition image in port and starboard direction.

It is suitable for searching the seabed and understanding the sea floor structure.



SPECIFICATIONS OF $\Box = - \exists \Box$

165 kHz

200 m* (Side Beam Best Performance) 300 m* (Main Beam Directly Under Boat)

*Depending on bottom, water and installation,

1 port, Ethernet 10/100Base-TX

100/110/220/230 VAC, 1 phase,

B54 (Bronze, for thru-hull mount),

SS54 (Stainless, for thru-hull mount) or TM54 (for transom mount)

20°-50° from right under

-15°C to + 55°C

IP55

50/60Hz

DFF-3D

PR-62

93% or less at +40°C

12-24 VDC, 1.4-0.7 A

Triple/Single Beam Sounder, Side Scan, Cross Section, **3D Sounder History**

800 W

3 m

GENERAL

TX Frequency **Output Power** Minimum Range **Detection Range**

Beam Angle for Triple Beam Sounder **Display Mode**

INTERFACE

LAN External KP

ENVIRONMENT

Temperature Relative humidity Waterproofing

POWER SUPPLY

DFF-3D Rectifier (PR-62, option)

Equipment List

Standard Multi Beam Sonar

Transducer (selectable)

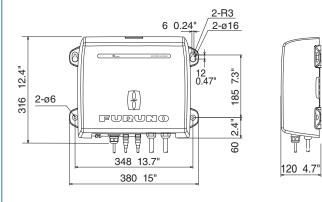
Spare Parts, Installation Materials

Option

External KP Kit Cable Assembly (2 m/10 m) Rectifier

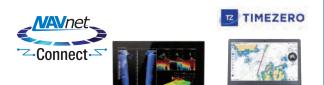
PROCESSOR UNIT

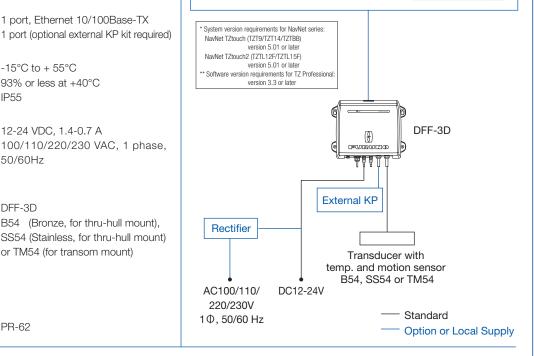
DFF-3D 3.0 kg 6.6 lb



INTERCONNECTION DIAGRAM

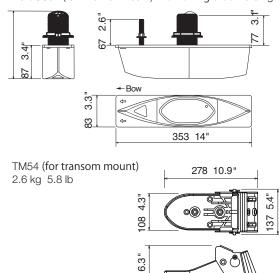
Compatible with NavNet TZtouch3, NavNet TZtouch2*, NavNet TZtouch or Windows OS with TZ professional software**.





Transducer

B54/SS54 (for thru-hull mount) with fairing block 3.9 kg 8.6 lb



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