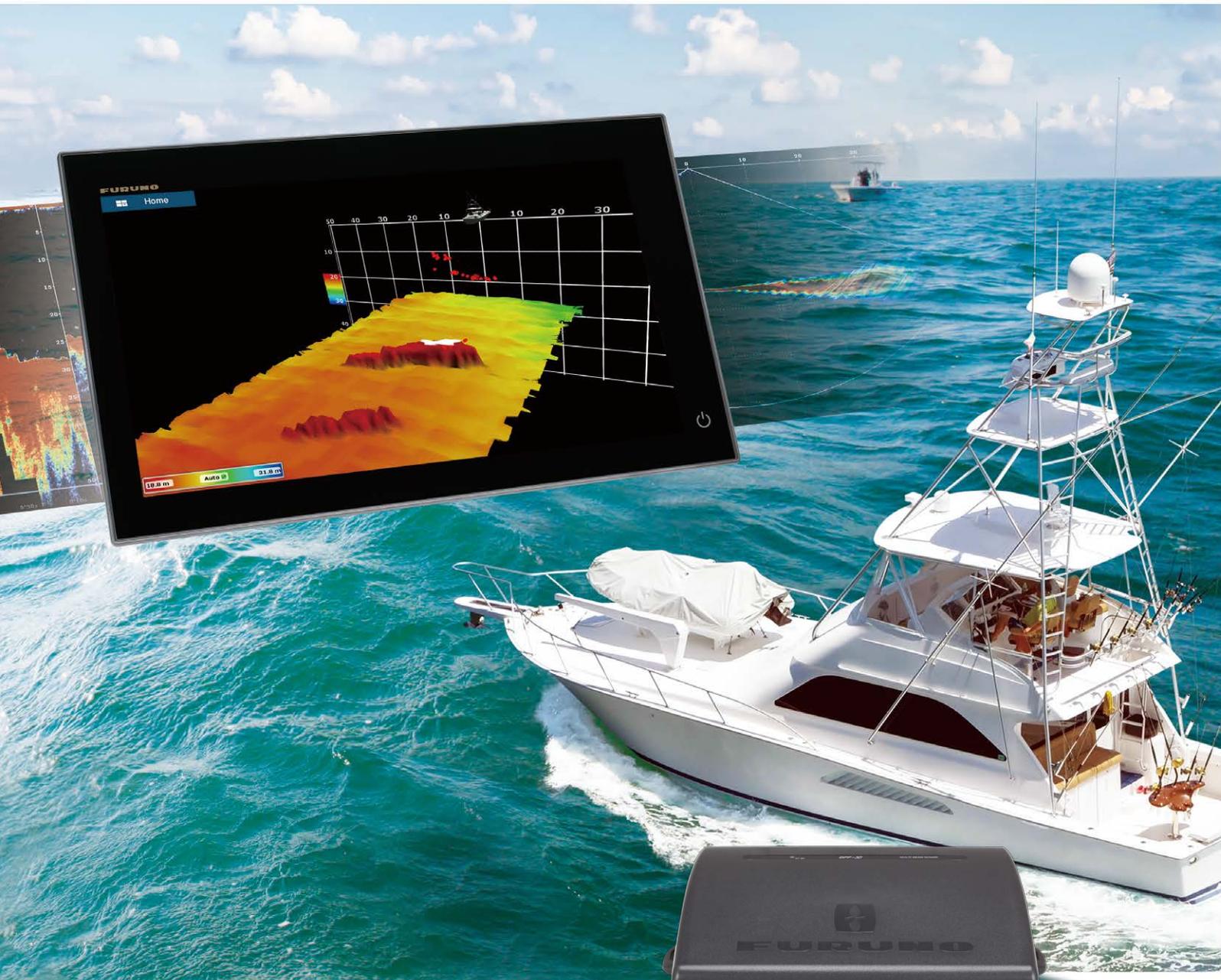


# FURUNO

## NETWORK MULTI BEAM SONAR

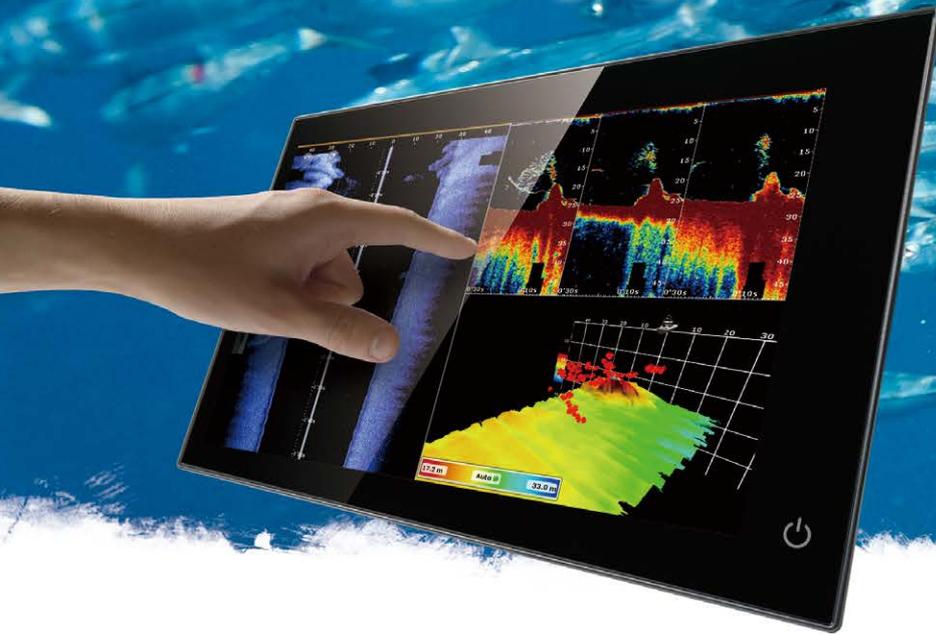
Model **DFP-3D**



More details on  
[www.furuno.com](http://www.furuno.com)

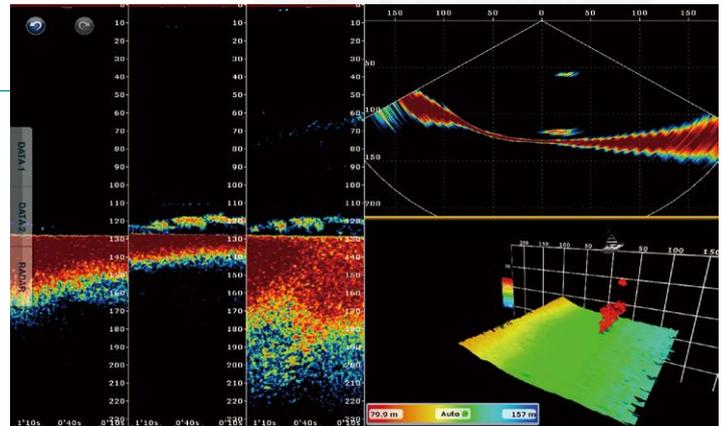


# Revolutionary 3D multi beam sonar utilizing FURUNO's Display deep and wide water columns and seabeds in astonishing high definition detail in real time



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

Turn your NavNet TZtouch or TZtouch2 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

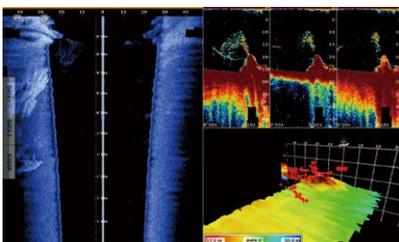
- ▶ Sidebar detection range is up to 200 m (over 650 ft)\* in a 120-degree swath port and starboard direction.

\* 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\*

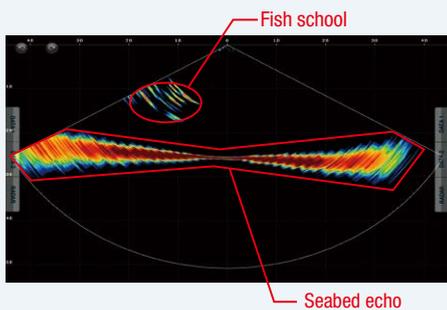
\* Software version 3.3 or later.

# advanced multi beam technology



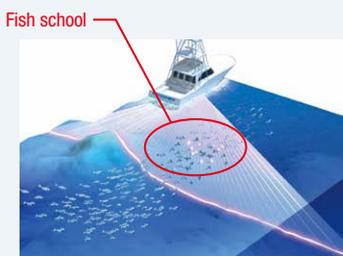
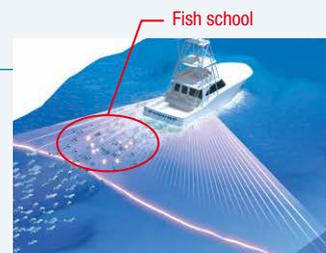
## What is multi beam sonar?

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.



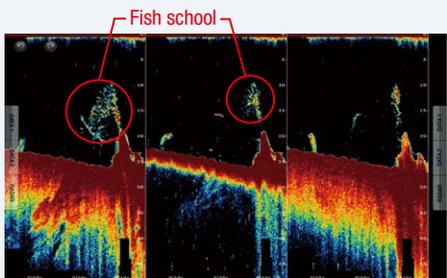
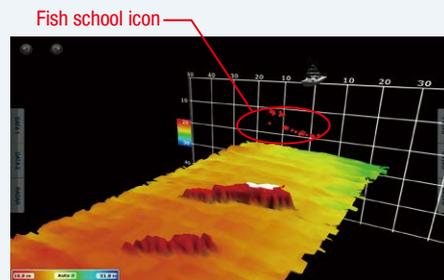
### Cross Section

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.



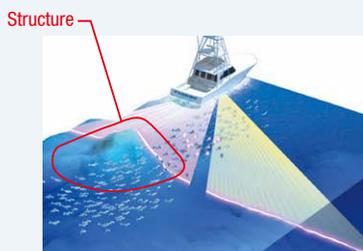
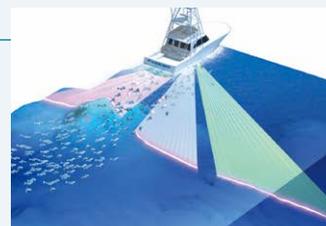
### 3D Sounder History

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.



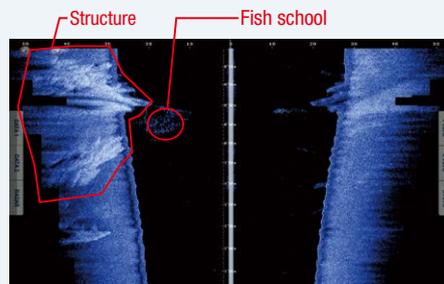
### Triple/Single Beam Sounder

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 DFF-3D

## GENERAL

TX Frequency	165 kHz
Output Power	800 W
Minimum Range	3 m
Detection Range	200 m* (Side Beam Best Performance) 300 m* (Main Beam Directly Under Boat)
	*Depending on bottom, water and installation.
Beam Angle for Triple Beam Sounder	20°-50° from right under
Display Mode	Triple/Single Beam Sounder, Side Scan, Cross Section, 3D Sounder History

## INTERFACE

LAN	1 port, Ethernet 10/100Base-TX
External KP	1 port (optional external KP kit required)

## ENVIRONMENT

Temperature	-15°C to + 55°C
Relative humidity	93% or less at +40°C
Waterproofing	IP55

## POWER SUPPLY

DFF-3D	12-24 VDC, 1.4-0.7 A
Rectifier (PR-62, option)	100/110/220/230 VAC, 1 phase, 50/60Hz

## Equipment List

### Standard

Multi Beam Sonar Transducer (selectable)	DFF-3D B54 (Bronze, for thru-hull mount), SS54 (Stainless, for thru-hull mount) or TM54 (for transom mount)
------------------------------------------	----------------------------------------------------------------------------------------------------------------------

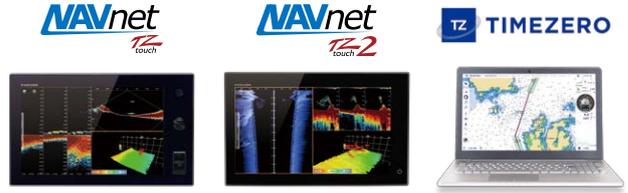
Spare Parts, Installation Materials

### Option

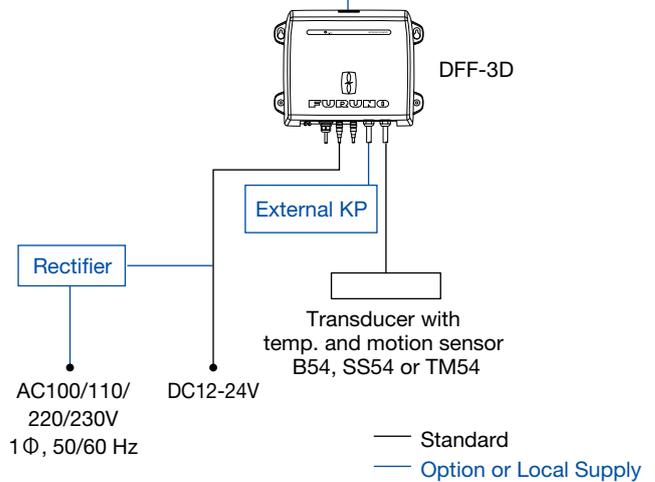
External KP Kit	
Cable Assembly (2 m/10 m)	
Rectifier	PR-62

## INTERCONNECTION DIAGRAM

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

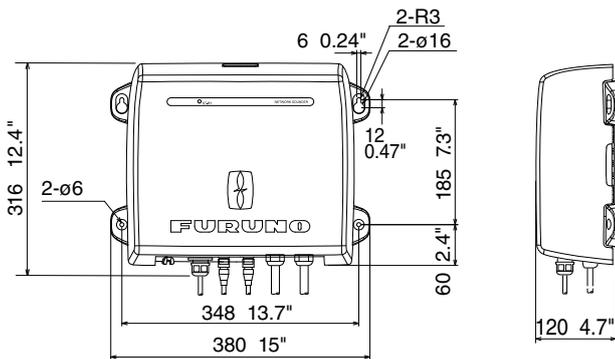


\* System version requirements for NavNet series:  
NavNet TZtouch (TZ19/TZ14/TZTB)  
version 5.01 or later  
NavNet TZtouch2 (TZL12F/TZL15F)  
version 5.01 or later  
\*\* Software version requirements for TZ Professional:  
version 3.3 or later



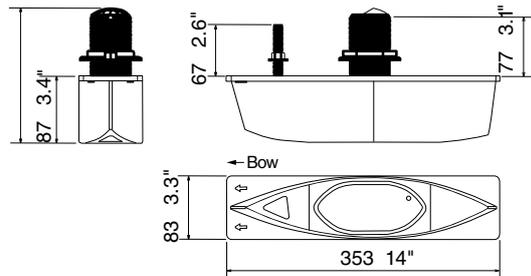
## PROCESSOR UNIT

DFF-3D 3.0 kg 6.6 lb

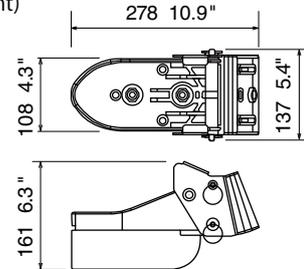


## Transducer

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



TM54 (for transom mount)  
2.6 kg 5.8 lb



Beware of similar products

All brand and product names are registered trademarks, trademarks or service marks of their respective holders.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

**FURUNO ELECTRIC CO., LTD.**  
Japan | www.furuno.com  
**FURUNO U.S.A., INC.**  
U.S.A. | www.furunousa.com  
**FURUNO PANAMA S.A.**  
Republic of Panama | www.furuno.com.pa  
**FURUNO (UK) LIMITED**  
U.K. | www.furuno.co.uk  
**FURUNO NORGE A/S**  
Norway | www.furuno.no

**FURUNO DANMARK A/S**  
Denmark | www.furuno.dk  
**FURUNO SVERIGE AB**  
Sweden | www.furuno.se  
**FURUNO FINLAND OY**  
Finland | www.furuno.fi  
**FURUNO POLSKA Sp. Z o.o.**  
Poland | www.furuno.pl  
**FURUNO DEUTSCHLAND GmbH**  
Germany | www.furuno.de

**FURUNO FRANCE S.A.S.**  
France | www.furuno.fr  
**FURUNO ESPAÑA S.A.**  
Spain | www.furuno.es  
**FURUNO ITALIA S.R.L.**  
Italy | www.furuno.it  
**FURUNO HELLAS S.A.**  
Greece | www.furuno.gr  
**FURUNO (CYPRUS) LTD**  
Cyprus | www.furuno.com.cy

**FURUNO EURUS LLC**  
Russian Federation | www.furuno.ru  
**FURUNO SHANGHAI CO., LTD.**  
China | www.furuno.com/cn  
**FURUNO CHINA CO., LTD.**  
Hong Kong | www.furuno.com/cn  
**FURUNO SINGAPORE**  
Singapore | www.furuno.sg

**PT FURUNO ELECTRIC INDONESIA**  
Indonesia | www.furuno.id

2-G-18083SS  
Catalogue No. CA00001195