Simply Refined, Simply Beautiful

- Edge-to-edge glass front
- Sunlight viewable multi touch display with impressive brightness, 1300 cd/m² for TZTL12F and 1000 cd/m² for TZTL15F
- Seamless, smooth chart operation with TimeZero™ Technology
- Enhanced touch gestures like edge swiping for frequently used functions
- The graphical user interface has been renewed and refined, focusing on usability and ease of operation
- Internal GPS Antenna (TZTL12F/15F)
- Internal RezBoost™ Fish Finder
- Fast processor (CPU) for great performances (TZT2BB)
- Independent display and operation for dual screens with built in dual CPU (TZT2BB)

- Add Autopilot, Instruments, Radar, AIS, and a wide variety of other sensors to your NavNet TZtouch2 network
- An instrument display like nothing you have seen before, totally customizable, totally simple
- Connect up to 6 NavNet TZtouch2/TZtouch displays on one network, 4 when connecting a TZT2BB Black Box
- With an Internet connection, NavNet TZtouch2 can wirelessly access real-time weather data
- Tablet & Smart phone apps: NavNet Remote, NavNet Viewer and NavNet Controller for your iOS and Android™ devices
- Compatible with CZone Digital Switching
- Manual Fuel Management enabling visual evaluation of fuel amount
- Full HD HDMI video input available (TZT2BB)

TZTL12F
12.1” Multi Function Display
Resolution: WXGA (1280 x 800 pixels)
Brightness: 1300 cd/m² (typical)

TZTL15F
15.6” Multi Function Display
Resolution: FWXGA (1366 x 768 pixels)
Brightness: 1000 cd/m² (typical)

TZT2BB
Multi Function Display Black Box
Supports both wide and non-wide resolutions: 1920 x 1080 (16:9), 1280 x 1024 (5:4), 1024 x 768 (4:3)

SDU-001
SD Card Unit (option) for TZTL12F/TZTL15F
MCU-002
Remote Control Unit (option)
MCU-004
Remote Control Unit (option)
PSD-003
Switch Box for TZT2BB

MCU-005
Control Unit (option)
* TZTL12F/15F: Software version 6.01 or later

Multi Touch Marine Display with TZT2BB Processor Unit (Model MPU-004) and Control Unit (Model MCU-005)
* Local supply
** Option

NMEA2000 Certified
For Safe Cruising

After selecting a target, it only takes a few seconds for a speed and course vector to be displayed. With accurate tracking information, estimation of other vessels course and speed is made easier.

Based on the direction and speed of the wind, the shortest route is calculated. Wind speed and direction can be visualized on the Historical Graph. In addition, the Air Pressure will be useful for your long cruising.

In order to display accurate Laylines, Polar Files can be imported to the NavNet TZtouch2. Polar Files of various boat models are available for download from NavNet.com.

The CPA graphic display lets you monitor an AIS and ARPA (TT) targets heading and speed changes. This is useful as an anti-collision aid, especially in congested waters.

The new autopilot control window on the instrument page and data area offers quick and easy control of the NAVpilot Series, including steering operation and mode selection. With the NAVpilot-300, you can also initiate Turn/Fish Hunter operation, adjust manual parameters and carry out installation setup from the NavNet TZtouch2 MFDs.

Integrate YAMAHA outboards with NavNet Series

The YAMAHA graphic interface displays status information of engines (up to 4), and ship information can be controlled from the NavNet TZtouch2 via YAMAHA Command Link®, Command Link Plus® and Helm Master® interfaces.

**NEW**

For Sailing

- Laylines*
- Polar File*
- Historical Graph*

* For more details about the list of compatible engines, please contact us or YAMAHA representatives.

Autopilot Control Window

The new autopilot control window on the instrument page and data area offers quick and easy control of the NAVpilot Series, including steering operation and mode selection. With the NAVpilot-300, you can also initiate Turn/Fish Hunter operation, adjust manual parameters and carry out installation setup from the NavNet TZtouch2 MFDs.

**NEW**

- Laylines*
- Polar File*
- Historical Graph*

* For more details about the list of compatible engines, please contact us or YAMAHA representatives.

Radar functions

Target Analyzer™

Target Analyzer™ function displays help you distinguish targets that are moving and getting close to own ship.

* Target Analyzer™ available when connected to DRS4D-NXT or DRS6A-NXT Radar sensors.
** NavNet TZtouch2 software version 3.01, TZtouch software version 4.21 or later required.

Fast Target Tracking™ (TT)

After selecting a target, it only takes a few seconds for a speed and course vector to be displayed. With accurate tracking information, estimation of other vessels course and speed is made easier.

CPA graphic display

The CPA graphic display lets you monitor an AIS and ARPA (TT) targets heading and speed changes. This is useful as an anti-collision aid, especially in congested waters.

Autopilot functions

- Laylines*
- Polar File*
- Historical Graph*

* For more details about the list of compatible engines, please contact us or YAMAHA representatives.

Manual Fuel Management*

The NavNet Series calculates and displays the remaining fuel based on the manually entered tank capacity, as well as fuel consumption information from an NMEA2000 network. The gauge allows the user to evaluate the price fuel level without equipping the ship with a fuel gauge. By configuring the settings, an alarm is available to inform you when the fuel level is low.

* 1) NMEA2000 PGN127499 (Fuel Rate) input is required.
2) NavNet TZtouch software version 4.01 and NavNet TZtouch2 software version 6.2 or later required.
3) While the engine is running, at least one NavNet model in the network should always be turned on in order to keep calculating the fuel consumption.
4) The fuel indication may be inaccurate if the values entered are not correct, or the fuel rate sensor is not functioning correctly.

*NavNet TZtouch2 software version 6.0 or later required.
For Fishing

Radar functions

**Built-in Fish Finder with RezBoost™**
With RezBoost™ technology, high resolution and target separation previously limited to Furuno commercial-grade Fish Finders can now be achieved. RezBoost™ technology makes it easier to spot individual fish in tightly packed fish schools, as well as discriminating game fish from bait fish.

* RezBoost™ performance may vary depending on depth, range and signal frequency used.

**TruEcho CHIRP™**
TruEcho CHIRP™ Fish Finder allows for incredible performance when it comes to detecting fish closer to the seabed, as well as discriminating individual fish in densely packed schools of fish.

* Network Fish Finder DFF1-UHD required.

**White Edge**
The edge of the seabed is displayed in white to easily discern seabed structure from bottom fish returns.

* NavNet TZtouch2 software version 6.0 or later required.

**Bird Mode**
The bird mode helps you identify birds congregating around schools of fish at the sea surface.

* NavNet TZtouch2 software version 3.01, TZtouch software version 4.21 or later required.

**ACCU-FISH™ (Fish Size Analyzer)**
The ACCU-FISH™ algorithm analyzes echo returns in order to compute individual fish size. The algorithm is capable of computing fish size ranging from 10 cm up to 199 cm long. Fish depth can also be displayed.

**Bottom Discrimination Display**
The bottom discrimination function provides you with valuable information to help you locate rich fishing grounds to boost the day’s catch.

**Scroll-back**
Found a fishing hot spot? Simply tap the screen and add a fish mark. With the scroll-back feature, you can look at past echoes simply by swiping the screen, and add new fish marks that will show the captured location on your plotter screen.

* NavNet TZtouch2 software version 6.0 or later required.

**Monitoring Sea Surface Temperature**
Sea surface temperature (SST) is one of the most important pieces of information for fishing in order to find the best spot or area.

**Track Recording**
Track Recording by SST Variation draw a ship’s track in variable colors, helping you find the location of a big temperature change or shear.

**Shear Alarm**
The Shear Alarm lets you know when there is a sudden change in sea surface temperature, often caused when two currents meet. This is usually a good indication of a great fishing spot.

**SST Graph**
SST Graph on the fish finder display, instrument display or data box shows you the history of SST in the trip.
For ship condition monitoring and expandability

CZone Digital Switching
CZone digital switching by BEP simplifies the installation and operation of complex electrical systems. NavNet TZtouch2 is compatible with CZone controls, allowing you to operate CZone equipment.

* Learn more about CZone Digital Switching at www.czone.net

Marine Audio FUSION-Link
Enjoy the ability to control all FUSION-Link enabled Apollo/755/750/700 series marine entertainment system capabilities and functions directly from the NavNet TZtouch Series. FUSION-Link makes it easy for you to enjoy your onboard audio and video entertainment from the NavNet TZtouch Series.

Marine Weather Forecast
The weather tool is completely free and easy to use, giving you unlimited access to weather forecasts, worldwide, 24 hours a day, provided by NavCenter. NavNet Series can display up to 16 days of downloaded weather forecasting.

* Internet connection is required.

My TimeZero™ Cloud Data Service
Connect your NavNet TZtouch2 to the internet and login to your My TimeZero™ account, and you will be able to back up or restore points, routes, tracks and settings to/from the cloud server.

APPS

View information on your smart devices via wireless network
NavNet TZtouch2 open the door to cutting edge Wireless LAN features, such as iOS and Android™ apps, real-time weather data, software updates and much, much more.

NavNet Remote App
Take full control of your NavNet TZtouch2 in a whole new way. The NavNet Remote app allows you to remotely operate and view your system with your smart devices when connected to the Wireless LAN network.

NavNet Viewer App
Conveniently view instruments as well as the fish finder of your NavNet TZtouch2 on your smart devices over the Wireless LAN network. Key navigational information such as Depth, Temp, Wind, COG as well as Engine information can all be accessed from the palm of your hand. Even if you change the display on your NavNet TZtouch2, you can still view the Fish Finder on your smart devices.

NavNet Controller App
Wirelessly control the NavNet TZtouch2 with touch controls just like the real thing. With a scroll pad, cursor pad and dedicated keys within the app, controlling the NavNet TZtouch2 is simple and straightforward.

Compatible NavNet products NavNet TZtouch2 (TZT11F/TZT15F, 69DS12700)
- software version 4.01 or later

Languages English/JP

<table>
<thead>
<tr>
<th>NavNet Remote</th>
<th>NavNet Viewer</th>
<th>NavNet Controller</th>
</tr>
</thead>
</table>

Languages:
- English
- Japanese

* APPS require an internet connection.
NavNet TZtouch2 Network

Perfect match!
NavNet TZtouch2, NAVpilot-711C and the FI-70 have been designed to match each other beautifully, both in appearance and in function. Sporting a clean and functional design in all black, they will make a great addition to your helm.

**CONVERTER**
- NMEA Data Converter IF-NMEA2000
- Analogue NMEA Data Converter IF-NMEAFI

**RADAR**

**FISH FINDER**
- Network Fish Finder DFF1-UHD/DFF1/DFF3
- Sidescan Electron Microscope Scanner BIDS1
- Multi-Beam Sonar DFF-3D

**AIS**
- Class-A AIS Transponder FA-170
- Class-B AIS Transponder FA-30

**WEATHER/PC PLOTTER**
- Network Weather Facsimile Receiver FAX-30
- Network Satellite Weather and Radio Receiver BBWX4

**OTHERS**
- Marine Entertainment System Apollo Series, etc.
- Internal Fish Finder with RezBoost™ technology

**NAVpilot-711C**
- Internal GPS Antenna

**GPS/WAAS Receiver Antenna**
- GPS Navigator GP-33

**VHF COMMUNICATION**
- Marine VHF Radiotelephone FM-3850
- Marine VHF Radiotelephone FM-4850

**AUTOPILOT**
- AUTOPILOT NAVpilot-300
- AUTOPILOT NAVpilot-700
- AUTOPILOT NAVpilot-711C

**COMPASS**
- Compass NAVpilot-700
- Compass NAVpilot-711C

**INSTRUMENT**
- Control Unit MCU-005
- Remote Control Unit MCU-004
- Remote Control Unit MCU-002

**OPTION**
- SD Card Unit SDU-001

*NMEA2000 Certified.
NMEA2000 offers improved data transfer rates and true plug-and-play operation.

**TEXT**
NavNet TZtouch2 is NMEA2000 certified. NMEA2000 offers improved data transfer rates and true plug-and-play operation.

* Sirius weather coverage is currently available only in U.S and Canada. Sirius subscription required.
* TZT2BB only.
Nothing Is Faster Than TimeZero™

NavNet TZtouch2 TimeZero™ technology delivers chart processing like you’ve never seen before – seamless chart handling, zooming and panning without the screen disappearing. TimeZero™ technology redefines the meaning of stress-free operation by smoothing out your chart handling actions.

The Only Acceptable Wait Time is Zero: TimeZero™ Technology Changes Your Perspective on Chart Redraw

Equipped with powerful TimeZero™ technology, NavNet TZtouch2 will completely transform the way you navigate. You can scroll, pan, zoom in/out with a smooth, fast and seamless graphics engine. Navigating in a 3D environment offers you a true perspective and wider area of view around the ship, which allows you to better plan your routes. TimeZero™ technology updates the information on your screen with virtually no redraw as you go.

Chart Plotter

Mapmedia Vector and Raster Chart Library

With NavNet TZtouch2 it’s possible to freely choose the charts that fit your individual needs. With the optional NOAA raster and vector charts, Mapmedia brings an authentic vector and raster chart library to your NavNet TZtouch2. “C-MAP” as well as “Datacore by Navionics” vector cartography are optional charts that can be downloaded to your TZtouch2 with ease. Mapmedia cartography integrates cutting edge algorithms with high resolution image processing techniques to deliver a fusion of digital navigation charts and satellite photography.

Satellite PhotoFusion™

Satellite photography is included in the Mapmedia Raster and Vector charts, simply called Satellite PhotoFusion™. Land areas (zero depth) are completely opaque, displayed as satellite photos on the chart. As the depth increases, the satellite image is merged with the chart data to provide you with added detail on seabed areas in shallow water, without losing vital chart information. In deeper water, where the satellite photos have no detail to offer, the chart is displayed without alteration.

Depth Shading

A depth color scale can be applied to both 2D and 3D vector and raster charts. Transparency levels can be adjusted so that chart data is visible beneath the color shading. This unique feature allows you to view water depths at-a-glance with vibrant colors. No more searching for depth numbers, when you can simply set depths to your specified colors. Whether you want to see the depth for navigation or fishing purposes, this feature makes it easier than ever before.

AIS Target Tracking

When connecting a FURUNO FA-30/50/170 AIS unit to your NavNet TZtouch2, up to 100 AIS targets can be tracked and displayed on the Chart Plotter screen. The Automatic Identification System (AIS) improves safety during travel by sharing the status and position of your vessel with other AIS-equipped vessels nearby. You can easily read detailed information about AIS-equipped vessels nearby such as speed, heading, Closest Point of Approach and Time to Closest Point of Approach.
Fish Finder

NavNet TZtouch2 is the first product from FURUNO to feature the brand new RezBoost™ technology. Accurately spot individual fish and increase your catch.

RezBoost™

RezBoost™ is a revolutionary new technology utilizing FURUNO’s advanced digital signal processing to provide fantastic resolution without having to change your transducer.

Conventional Signal Processing

RedBoost™ Signal Processing

RedBoost™ improves target separation close to the seabed, as well as giving an unprecedented boost in resolution. With RedBoost™ technology, resolution and target separation previously limited to FURUNO commercial-grade Fish Finders can now be achieved. RedBoost™ technology makes it easier to spot individual fish in tightly packed fish schools, as well as discerning game fish from bait fish. Since RedBoost™ technology is software based, you can use transducers already installed on your vessel.

FURUNO Digital Filter (FDF™) Fish Finder

FURUNO Digital Filter (FDF™) fish finders feature advanced filtering capabilities and digital auto tuning, which eliminates noise. FURUNO FDF™ fish finders deliver the ability to spot individual fish with clarity, accuracy and detail. Whether in shallow or deep water, FURUNO FDF™ fish finders give you what you would expect from a fish finder at all times.

ACCU-FISH™ (Fish Size Analyzer)

The ACCU-FISH™ algorithm analyzes echo returns in order to compute individual fish size. The algorithm is capable of computing fish size ranging from 10 cm up to 199 cm long. Fish depth can also be displayed.

In some instances, fish size indicated on the NavNet TZtouch2 may differ from its actual size. Please carefully read the operator’s manual prior to utilizing this feature.

Bottom Discrimination Display

Bottom discrimination provides detailed information about the make-up of the seabed, categorizing it into four different categories: “Rocks”, “Gravel”, “Sand” and “Mud”. The make-up of the seabed can be tremendously helpful information when looking for fishing grounds, as well as for finding good anchoring spots.

Multi Beam Sonar

Innovative tool for exploring a wide range of water column and seabed

New Multi Beam Sonar model DFF-3D gives you real-time 120 port-starboard view of the water column and seabed up to 200 m depth*. The DFF-3D allows you to explore fishing spots and find fish in deep water by far faster than conventional single beam sounders. On the other hand, the main beam penetrate right under the boat at a depth of approximately 300 m. Installation is made easy, thanks to a compact transducer design. The built-in motion sensor gives you clear images under your boat even in rough water.

Find More Fish With TruEcho CHIRP™ Fish Finder

An advanced technology for both professional and enthusiast fishermen. Designed to operate across a wide range of frequencies utilizing a broadband transducer, the TruEcho CHIRP™ network fish finder delivers significant advantages in signal clarity and target definition. Due to the constant sweep of frequencies the TruEcho CHIRP™ network fish finder is capable of gathering more and higher quality data than a traditional single frequency fish finder. The clear presentation marks individual game fish and bait fish, even when tightly schooled together.

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Dual Frequency CHIRP</th>
<th>Double Frequency CHIRP</th>
<th>Dual Frequency CHIRP</th>
<th>Double Frequency CHIRP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>48 kHz and 200 kHz</td>
<td>200 kHz and 200 kHz</td>
<td>200 kHz and 200 kHz</td>
<td>200 kHz and 200 kHz</td>
</tr>
<tr>
<td>Depth Range</td>
<td>Up to 1,200 m</td>
<td>Up to 3,000 m</td>
<td>Up to 1,200 m</td>
<td>Up to 3,000 m</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>1 kHz</td>
<td>2 kHz</td>
<td>4 kHz</td>
<td>8 kHz</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>20 kHz</td>
<td>40 kHz</td>
<td>80 kHz</td>
<td>160 kHz</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.5 m</td>
<td>1 m</td>
<td>2 m</td>
<td>4 m</td>
</tr>
<tr>
<td>Resolution</td>
<td>12 nautical miles</td>
<td>24 nautical miles</td>
<td>48 nautical miles</td>
<td>96 nautical miles</td>
</tr>
<tr>
<td>Depth Measurement</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>Side Scan</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
</tbody>
</table>

* Maximum depth dependent on installation, bottom type and water conditions.
The NXT step in Radar technology
Solid-State Radar with pulse compression, Target Analyzer and Fast Target Tracking™ utilizing Doppler technology. Combined with FURUNO exclusive RezBoost™ technology for echo sharpening.

X-Class series a whole new class of Radar
Pushing the boundaries of what is possible with conventional Radar technology, X-Class series mark yet another leap forward for FURUNO. Improved in almost all aspects, X-Class Radar features improved short range detection as well as an impressive long range detection of up to 96 nautical miles. And that’s not all, the new “Bird Mode” gives you incredible bird detection performance.

ARPA Target Tracking
With ARPA Target Tracking enabled, up to 30 different targets* can be tracked simultaneously. Targets can be acquired either manually or fully automatically. Automatic Radar Plotting Aid (ARPA) calculates the tracked objects course and speed, as well as the CPA (Closest Point of Approach). With this information, the Radar is capable of predicting possible collision courses and sound relevant alarms. In combination with AIS, this spells increased security and ease of mind on your vessel.

Real-Time Digital Auto Gain/Sea Controls
NavNet TZtouch2 employs revolutionary real-time digital auto Gain/Sea controls to deliver a crystal clear radar presentation. With this new technology, NavNet TZtouch2 computes and applies an adaptive omni-directional anti-clutter filter with variable intensity according to vessel bearing. With the use of this technology, automatic gain and sea clutter have achieved such a high level of proficiency that one rarely needs to venture into the manual modes. Set the Radar to auto and focus on more important things at hand.

Simultaneous Dual Range Radar Scanning
Simultaneous scanning technology sends out a dual progressive scan that is processed and presented on the NavNet TZtouch2. This technology allows for two different radar ranges to be displayed simultaneously, each range with autonomous control over gain and anti-clutter settings.

AIS Target Tracking
When connecting a FURUNO FA-30/50/170 AIS unit to the NavNet TZtouch2, up to 100 AIS targets can be tracked and displayed on the Radar screen. The Automatic Identification System (AIS) improves safety during travel by sharing the status and position of your vessel with other AIS-equipped vessels nearby. You can easily read detailed information about AIS-equipped vessels nearby such as speed, heading, Closest Point of Approach and Time to Closest Point of Approach.

NavNet TZtouch2 Radar Sensor Options

<table>
<thead>
<tr>
<th>Sensor</th>
<th>Output Power</th>
<th>Antenna Type</th>
<th>Beam Width</th>
<th>Max. Range</th>
<th>Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRS25A X-Class</td>
<td>4 kW, 4 kW</td>
<td>Radome, Open, Open</td>
<td>5.2°, 3.9°</td>
<td>36 NM, 36 NM</td>
<td>Head-up, North-up, True Echo Trail, TT, AIS</td>
</tr>
<tr>
<td>DRS6A-NXT</td>
<td>12 kW, 12 kW</td>
<td>Radome, Radome, Open</td>
<td>2.3°/1.9°/1.35°</td>
<td>72 NM</td>
<td>Head-up, North-up, True Echo Trail, Bird mode, TT, AIS</td>
</tr>
<tr>
<td>DRS6A X-Class</td>
<td>25 kW, 25 kW</td>
<td>Radome, Radome, Open</td>
<td>1.9°/1.35°</td>
<td>96 NM</td>
<td>Head-up, North-up, True Echo Trail, Bird mode, TT, AIS</td>
</tr>
</tbody>
</table>

*1 TZtouch2 software version v3.01 or later for DRS4D-NXT, version v5.01 or later for DRS6A-NXT.

**1 Bird mode is also available with DRS-NXT Series.

**2 Heading input required.
### Specifications

#### TZTL12F

**Display Unit**

<table>
<thead>
<tr>
<th>Feature</th>
<th>TZTL12F</th>
<th>TZTL15F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Brightness</td>
<td>1300 cd/m²</td>
<td></td>
</tr>
<tr>
<td>Screen Resolution</td>
<td>WXGA 1280 x 800</td>
<td>FWXGA 1366 x 768</td>
</tr>
<tr>
<td>Screen Size</td>
<td>12.1&quot; Wide</td>
<td>15.6&quot; Wide</td>
</tr>
<tr>
<td>Transmit Frequency</td>
<td>50/200 kHz</td>
<td></td>
</tr>
<tr>
<td>FISH FINDER (Built-in)</td>
<td>Type Color TFT multi touch LCD</td>
<td></td>
</tr>
<tr>
<td>INTERFACE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>5.5 A</td>
<td>7.0 A</td>
</tr>
<tr>
<td>WATERPROOFING</td>
<td>IP56</td>
<td></td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>-15°C to +55°C</td>
<td></td>
</tr>
<tr>
<td>Display Colors</td>
<td>Chart Plotter/Menu: 16,770,000 colors Fish Finder: 64 colors Radar: 64 colors</td>
<td></td>
</tr>
<tr>
<td>Signal Interface</td>
<td>HDMI, Extended, HDCP</td>
<td></td>
</tr>
<tr>
<td>TOUCH PANEL</td>
<td>USB2.0, Windows® 7 multi-touch</td>
<td></td>
</tr>
</tbody>
</table>

#### TZTL15F

**Display Unit**

<table>
<thead>
<tr>
<th>Feature</th>
<th>TZTL15F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Brightness</td>
<td>1300 cd/m²</td>
</tr>
<tr>
<td>Screen Resolution</td>
<td>WXGA 1280 x 800</td>
</tr>
<tr>
<td>Screen Size</td>
<td>15.6&quot; Wide</td>
</tr>
<tr>
<td>Transmit Frequency</td>
<td>50/200 kHz</td>
</tr>
<tr>
<td>FISH FINDER (Built-in)</td>
<td>Type Color TFT multi touch LCD</td>
</tr>
<tr>
<td>INTERFACE</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>5.5 A</td>
</tr>
<tr>
<td>WATERPROOFING</td>
<td>IP56</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>-15°C to +55°C</td>
</tr>
<tr>
<td>Display Colors</td>
<td>Chart Plotter/Menu: 16,770,000 colors Fish Finder: 64 colors Radar: 64 colors</td>
</tr>
<tr>
<td>Signal Interface</td>
<td>HDMI, Extended, HDCP</td>
</tr>
<tr>
<td>TOUCH PANEL</td>
<td>USB2.0, Windows® 7 multi-touch</td>
</tr>
</tbody>
</table>

*Bracket is optional supply.*

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### TZT2BB

**Display Unit**

<table>
<thead>
<tr>
<th>Feature</th>
<th>TZT2BB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Brightness</td>
<td>1300 cd/m²</td>
</tr>
<tr>
<td>Screen Resolution</td>
<td>WXGA 1280 x 800</td>
</tr>
<tr>
<td>Screen Size</td>
<td>15.6&quot; Wide</td>
</tr>
<tr>
<td>Transmit Frequency</td>
<td>50/200 kHz</td>
</tr>
<tr>
<td>FISH FINDER (Built-in)</td>
<td>Type Color TFT multi touch LCD</td>
</tr>
<tr>
<td>INTERFACE</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>1.0 A</td>
</tr>
<tr>
<td>WATERPROOFING</td>
<td>IP56</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>-15°C to +55°C</td>
</tr>
<tr>
<td>Display Colors</td>
<td>Chart Plotter/Menu: 16,770,000 colors Fish Finder: 64 colors Radar: 64 colors</td>
</tr>
<tr>
<td>Signal Interface</td>
<td>HDMI, Extended, HDCP</td>
</tr>
<tr>
<td>TOUCH PANEL</td>
<td>USB2.0, Windows® 7 multi-touch</td>
</tr>
</tbody>
</table>

**Switch Box**

<table>
<thead>
<tr>
<th>Feature</th>
<th>PSD-003</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Brightness</td>
<td>1300 cd/m²</td>
</tr>
<tr>
<td>Screen Resolution</td>
<td>WXGA 1280 x 800</td>
</tr>
<tr>
<td>Screen Size</td>
<td>15.6&quot; Wide</td>
</tr>
<tr>
<td>Transmit Frequency</td>
<td>50/200 kHz</td>
</tr>
<tr>
<td>FISH FINDER (Built-in)</td>
<td>Type Color TFT multi touch LCD</td>
</tr>
<tr>
<td>INTERFACE</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>1.0 A</td>
</tr>
<tr>
<td>WATERPROOFING</td>
<td>IP56</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>-15°C to +55°C</td>
</tr>
<tr>
<td>Display Colors</td>
<td>Chart Plotter/Menu: 16,770,000 colors Fish Finder: 64 colors Radar: 64 colors</td>
</tr>
<tr>
<td>Signal Interface</td>
<td>HDMI, Extended, HDCP</td>
</tr>
<tr>
<td>TOUCH PANEL</td>
<td>USB2.0, Windows® 7 multi-touch</td>
</tr>
</tbody>
</table>

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###总计

- **TZT2BB**
  - Multi Function Display Black Box TZT2BB MNU-004: 3.9 kg (8.6 lb)
  - Multi Function Display Black Box TZT2BB Switch Box PSD-003: 0.75 kg (1.7 lb)

- **TZTL12F**
  - Multi Function Display (Tabletop Mount) TZT12F: 3.8 kg (8.4 lb)
  - Multi Function Display (Flush Mount) TZT12F: 3.7 kg (8.2 lb)

- **TZTL15F**
  - Multi Function Display (Tabletop Mount) TZT15F: 5.5 kg (12.1 lb)
  - Multi Function Display (Flush Mount) TZT15F: 4.9 kg (10.8 lb)

*Note: All weights are approximate and subject to change.*