This guide provides the basic operating procedures for this equipment. For detailed information, see the Operator’s Manual in the supplied CD-ROM. You can get the latest version of the manual by accessing the quick response code at the back of this guide. Connection of sensors required.

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The screenshots in this manual are taken from the TZTL12F and TZTL15F. On-screen appearance for the TZT2BB may differ slightly, depending on the monitor used.

### Operational Overview

#### Home icon, power switch operations

**TZTL12F/TZTL15F**

**Tap**

- Displays the home screen.

**Home icon**

**Power switch**

- Turns on power
- Shows [Quick Access] window.

**Power off**

- Power off function only: Powers off this unit.
- Power off linked function: Powers off all NavNetTZ touch2 units in network.

**Brilliance, Hue**

TZTL12F/15F: Adjust display brilliance.
TZT2BB: Adjust power lamp and key backlight brilliance.

**Display icons**

(max. 16 on home screen)

“eGuide” provides an abbreviated operator’s guide.

**Home screen**

**How to edit a display icon**

Long tap a display icon to edit, delete, resize, or change its location.

**Display icon long tapped**

- Edit
- Delete
- Size (large or small)

**How to select a display**

1. **Tap a display icon on the home screen**
2. **OR**
3. **Tap a display icon on the quick page**

**Swipe downward from top of display**

**Quick page**

**Home screen**
Touchscreen operations

**Tap**
- Select an item on a menu.
- Select an object to show the corresponding pop-up menu.

**Drag, swipe**
- Move the chart.
- Scroll the menu.
- Show slide menu, layer menu.

**Pinch**
- Zoom in
- Zoom out
- Zoom in, zoom out the plotter and weather displays.
- Change the range on the radar display.

**Two finger tap**
Do the function assigned to [Function Gesture] in the [Settings] - [General] menu.

**Two finger drag**
Change the viewpoint position on the 3D display.

Menu operation

**Pop-up menu**
- Tap screen (applicable point, object, etc.)
- Tap the required function.
  (> indicates additional options.)

**Layer menu**
- Swipe upward from the bottom edge.
- Tap the required function.

**Slide-out menu**
- Swipe leftward from the right edge.
- Tap the required function.
  (Icon color and function state
  Yellow: ON, White: OFF)

**Slide menu**
- Tap the required function.

**Settings menu**
- Tap the [Home] icon.
- Tap [Settings].
- Drag menu to find required item, then tap item.
- Tap the required option.
Data Area (Data Box)

Swipe from the left edge of the screen rightward to show the data area at the left edge of the screen. To hide the data area, swipe opposite direction.

Data box settings

1. Tap the data box to delete or change.
2. Tap the [Delete]. To change the data: Tap the data to display.
3. Long tap the data box to show [Edit NavData] display.
4. Tap empty space on the data box or [+Add NavData].
5. Tap [Change Type] to change the data display method among Graphic (analog), Numeric (digital) and Graph.

Grip icon: Drag the grip icon to move the data box.
Points/boundaries

Points can be entered on the plotter display (radar and fish finder displays also) to mark important locations such as a good fishing spot. Point attributes (position, symbol type, color, etc.) are recorded to the points list. Also, boundaries can be set at the position desired (net position, area to avoid, etc.)

**How to enter a point**

Tap where to enter a point.

The point is entered on the screen.

**How to set a point as destination**

On-screen point

Tap a point or the location to set as destination.

If a point was tapped.

**Points list**

Tap [Lists] on the home screen.

Sort the list by date, name, icon, color, range.

Tap the point to set as the destination.

Notice

*Note:* [Find on Chart] puts the selected point at the screen center.

**How to set a boundary**

Tap the position where to set a boundary.

Tap the shape to use for the boundary.

[Area]/[Line]: Tap necessary points to complete the boundary, referring to "Route" on the next page.

[Circle]: Drag icons to adjust the size and position, and then tap [End Boundary].
A route is comprised of a series of waypoints leading to a destination. Routes are saved to the routes list.

**How to create a new route**

1. Tap the first point for the route.
2. Tap the next point for the route. Repeat to enter all points for the route.
3. At the last point, enter a name for the route, then tap [✓].

**How to follow a route**

**On-screen route**

1. Tap a leg of the route.

**Routes list**

1. Sort list by date, name, color, length or range.
2. Tap the route.
How to switch between standby and TX

How to adjust the gain / sea clutter / rain clutter
How to measure the range, bearing from own ship to a target

Tap a target to show its range and bearing from own ship.

How to set a guard zone

A guard zone alerts you (with aural and visual alarms) when a radar target enters the area you specify.

Open the [Layers] menu.

The guard zone appears in dashed lines.

Tap dashed line on guard zone.

An icon appears at each corner of the guard zone.

Drag the icons to set guard zone.

Tap the guard zone again.

The dashed lines change to solid lines, indicating the guard zone is active.
ARPA is an anti-collision aid that tracks the movement of other ships to help prevent collision. ARPA not only tracks other ships but also provides their navigation data. Targets can be acquired manually, automatically, or both automatically and manually.

How to show, hide ARPA symbols

Open the [Layers] menu.

ARPA Targets

ON ARPA symbols ON

OFF ARPA symbols OFF

How to manually acquire a target

Tap the target to acquire.

Automatic target acquisition

Set a guard zone, then tap the guard zone.

The dashed lines change to solid lines, indicating the guard zone is active.

ARPA symbols

At acquisition

Within 30 seconds after acquisition

Lost target

How to display target data

Tap an ARPA target to show its data.
The CPA/TCPA alarm releases an aural alarm and a visual alarm (message in Status bar) when both the CPA and TCPA of a tracked target are equal to or lower than the CPA/TCPA alarm setting.

**CPA**: Closest point of approach  
**TCPA**: Time to closest point of approach

### How to set the CPA/TCPA alarm

1. Navigate to the CPA/TCPA Alarm settings.
2. Set the CPA Alarm Value.
3. Set the TCPA Alarm Value.
4. Tap the [✓] button to confirm the alarm settings.

### How to acknowledge the CPA/TCPA alarm

- Tap the alarm message (top of screen) to acknowledge the alarm and stop the aural alarm.

### CPA Line

The CPA Line feature gives you a visual line that depicts the closest point of approach to a selected ARPA target. To use this feature, own ship position and heading data is required.

### How to enable the CPA Line feature

1. Navigate to the CPA Graphic Display settings.
2. Tap the [ON] button to activate the CPA Line feature.

### How to show the CPA Line

- Tap the CPA Line feature to display the CPA Line on the screen.
- The CPA Line will be shown between the own ship and the selected ARPA target.
AIS (Automatic Identification System)

How to show or hide AIS target symbols

Open the [Layers] menu.

AIS target symbols

<table>
<thead>
<tr>
<th>Class A AIS</th>
<th>Class B AIS</th>
<th>BFT* AIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activated target</td>
<td>SOG and COG vector</td>
<td>SOG and COG vector</td>
</tr>
<tr>
<td>Color: Blue</td>
<td>Color: Green</td>
<td>Color: Blue (filled)</td>
</tr>
<tr>
<td>Dangerous target</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color: Red Flashing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lost target</td>
<td>Color</td>
<td></td>
</tr>
<tr>
<td>- AIS target: Blue</td>
<td>- AIS target: Green</td>
<td></td>
</tr>
<tr>
<td>- Cross: Red</td>
<td>- Cross: Red</td>
<td></td>
</tr>
</tbody>
</table>

Proximity AIS target alarm

The proximity AIS target alarm releases aural and visual alarms when the distance between own ship and an AIS target is near the alarm value.

Open the [Layers] menu. Set the alarm value, then tap [✓].

How to show AIS target data

Tap an AIS target to show its data.

Set the alarm value, then tap [✓].

*: Blue Force Tracking

Class A AIS
- Activated target
  - SOG and COG vector
  - Color: Blue

Class B AIS
- Activated target
  - SOG and COG vector
  - Color: Green

BFT* AIS
- Activated target
  - SOG and COG vector
  - Color: Blue (filled)

Dangerous target
- Color: Red

Lost target
- AIS target: Blue
- Cross: Red

Tap [Layers] menu.
Fish Finder

**How to select a frequency**

- **Low frequency**: For “normal” use.
- **High frequency**: For detailed observation of schools of fish.
- **Dual frequency**: Show both the low and high frequency pictures.

![Diagram of Fish Finder interface]

**How to show past echoes (echo history)**

Swipe leftward or rightward to show past echoes.

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**Notice**

[TX/STBY] on the layer menu toggles between TX and standby.

**Notice**

Names of menu items may be changed depending on the transducer connected.

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**Notice**

[TX/STBY] on the layer menu toggles between TX and standby.

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**Notice**

[TX/STBY] on the layer menu toggles between TX and standby.
How to select the operating mode

The fish finder is available in automatic and manual operation. For automatic operation, gain, clutter and TVG are automatically adjusted.

Manual mode

How to change the range

Tap the fish finder screen to show the pop-up menu.

Drag the slider to set the range.

(The slider bar can also be tapped to set the range.)

How to adjust the gain

Drag the slider to set the gain.

(The slider bar can also be tapped to set the gain.)

(Top right corner)

How to reduce the clutter

The larger the value, the more the clutter is reduced.
**Zoom display**

- **ACCU-FISH™/Bottom Discrimination/RezBoost™**
  - **ACCU-FISH™**
    - Detected fish can be marked with a fish symbol (requires ACCU-FISH™ capable transducer).
    - **Fish symbol**
    - Fish size or depth
  - **Bottom Discrimination**
    - Show probable bottom hardness (requires bottom discrimination capable transducer).
    - **Bottom discrimination display**
      - The most probable bottom material.
  - **RezBoost™**
    - Raise the echo resolution (requires RezBoost™ capable transducer).
    - **RezBoost™ Enhanced**
      - Standard
      - Enhanced
    - (Standard mode)
    - (High resolution mode)

**Notice**
You can select fish symbol type, and fish size or depth indication from the menu - go to home screen, [Settings], [Sounder].
**Instrument Display**

With connection of appropriate sensors, the instrument display shows various navigation data.

### How to enable the instrument display

Add an instrument display icon to the home screen to show the instrument display.

1. Tap
2. Drag

After setting, tap [ ].

(Incorporation in 3-way screen is also possible.)

### How to switch instrument displays (ex. full display)

- Tap

Swipe up or down to switch between displays.

### How to edit an instrument display

- Tap the instrument display, then tap [Edit Page] on the pop-up menu.

A white line surrounds each indication.

In the edit mode, you can remove, change, add, rearrange indications.

To end the edit mode:

Tap the screen, then tap [End Edit] on the pop-up menu.

### How to remove or change an indication

- In the edit mode, tap the indication to remove or change.

- Remove indication: Tap [Remove].
- Change size: Tap [Small]*, [Medium], or [Large].
- Change type: Tap [Change Type].
- Change indication: Tap indication in [NAVIGATION DATA], [ROUTE INFORMATION], [WIND AND WEATHER].

**Note:** Drag the menu to show hidden items.

* Graphic, digital only

### How to add an indication

- In the edit mode, tap a location not occupied by an instrument display.

- Tap a size in desired category.

Added item appears at tapped location.
Wireless LAN Settings

You can connect to the internet with the wireless LAN signal to download weather information and to connect to an iPhone, iPod, iPad, or Android™ device.

Note: This procedure is not available from a monitor connected to the HDMI OUT2 port (TZT2BB only).

**How to connect to an existing LAN**

Connect to the existing LAN to download weather data or update the software.

Select [When Necessary], then tap “<”.

Select [Connect to existing LAN], then tap “<”.

Tap network required.

Enter the name of the network, then tap [OK].
How to create a local wireless network

Create a local wireless network to connect to an iPhone, iPod, iPad, or Android device.

1. Check that [When Necessary] is selected.
2. Check that [OFF] is selected.
3. Select [Create Local Network], then tap "<".
4. Enter the name of the network, then tap [ ].
   - To change the network name, tap [Name]. Note: The default network name is the name of your equipment. In this example, “TZTL12F “ is the name of the network.
5. Enter the password, then tap [ ].
   - To change the password, tap [Password]. Note: A default password is automatically generated.
6. Connect to the NavNet TZ touch 2 from the smartphone or tablet.