

This guide provides the basic operating procedures for this equipment. For detailed information, see the Operator's Manual on the WEB site. You can get the latest version of the manual by accessing the quick response code at the bottom of this page. Connection of sensors required.
 iPhone, iPod and iPad are trademarks of Apple Inc. Android is a trademark of Google Inc. All brand and product names are trademarks, registered trademarks or service marks of their respective holders.
 The screenshots used in this guide were mainly taken from the TZTL12F/TZTL15F. On-screen appearance for the TZT2BB may differ slightly, depending on the monitor used.

Operational Overview

Icon (home/displays), power switch operations

TZTL12F/TZTL15F



Home icon
 "FURUNO" (TZT2BB only)
 or "Home" indication

TZT2BB



Display icons
 (max. 16 on home screen)



"eGuide" provides
 an abbreviated
 operator's guide.

Home screen

Power off

Device: Powers off this unit.
Network: Powers off all NavNet TZtouch series units in network.

Power switch

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



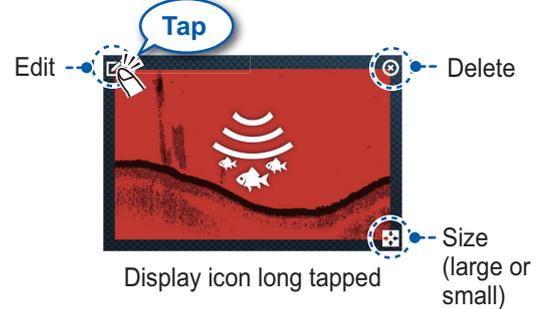
Brilliance, Hue

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



How to edit a display icon

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



How to select a display

- Tap a display icon on the home screen (see illustration above).
- Tap a display icon on the Quick page.



Swipe downward from top of display.



Quick page

Operator's Manual
 Download Link



https://www.furuno.com/en/support/manuals/?pc=navnet_mfd



Touchscreen operations

Tap



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

Drag, swipe



- Move the chart.
- Scroll the menu.
- Show Slide-out menu, Layers menu.

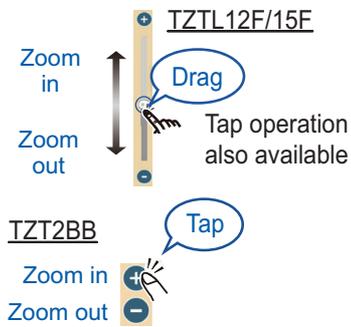
Pinch



Zoom in Zoom out

- Zoom in, zoom out the chart plotter and weather displays.
- Change the range on the radar and fish finder displays.

Slider bar



Two finger (long) tap



Do the function assigned to [Two Finger (Long) Tap Function] 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.)

Pop-up menu



Tap the required function.
(">" indicates additional options.)

Layers menu



Swipe upward from the bottom edge.

Layers menu



Tap the required function.

Slide-out menu



Swipe leftward from the right edge.

Slide-out menu



Tap the required function.
Icon color and function state
Yellow: ON, White: OFF

Settings menu



Tap the [Home] icon.



Tap [Settings].

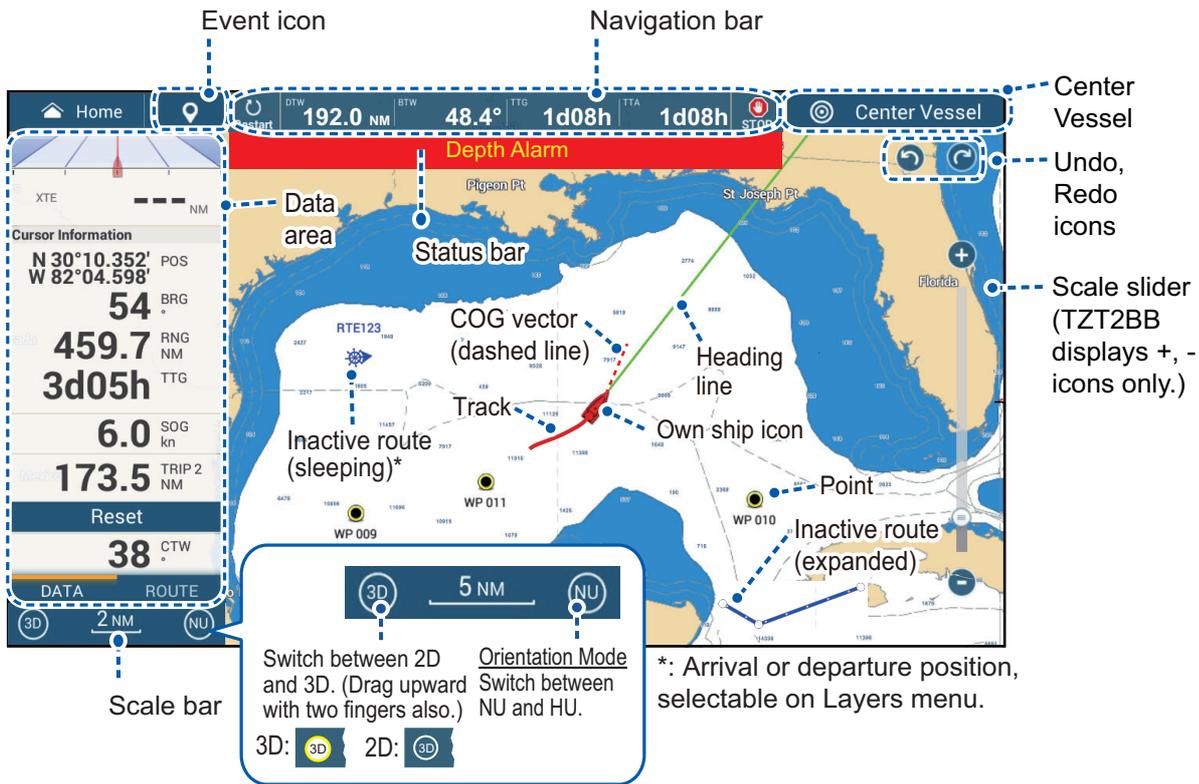


Drag to find required menu, then tap item.



Tap the required menu item.

Chart Plotter



Data Area (Data Box)

Swipe from the left edge of the screen rightward to show navigation data in the data area at the left edge of the screen. To hide the data area, swipe the data area leftward or tap the [NavData] indication (yellow) in the Slide-out menu.

Data box settings



Long tap the data box to show [Edit NavData] display.

To remove a data box, or change the displayed data:



- 1 Tap the data box to remove or change data.
- 2 Remove a data box: Tap [Remove]. Change data: Tap the data to display.

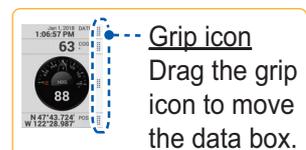
To add a data box:



- 1 Tap empty space on the data area or [+Add NavData].
- 2 Tap a data to add.



Tap [Close] to finish.



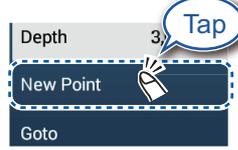
Points/boundaries

Points can be entered on the chart plotter display (radar, fish finder and weather 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

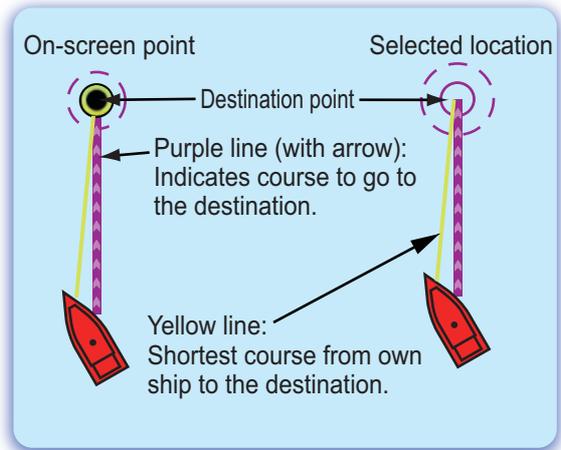
On-screen point



Tap a point or the location to set as destination.



If a point was tapped.



Points list



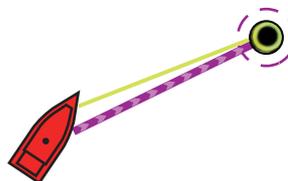
Tap [Lists] on the home screen.



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].

Routes

A route is comprised of a series of waypoints leading to a destination. Routes are saved to the routes list.

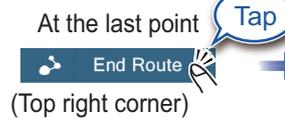
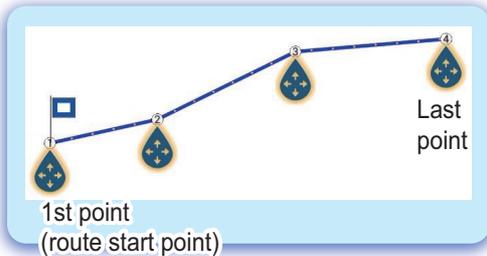
How to create a new route



Tap the first point for the route.

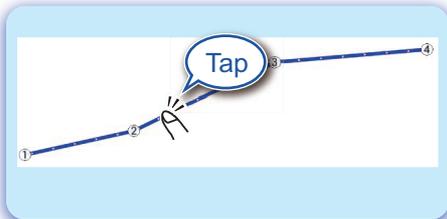


Tap the next point for the route. Repeat to enter all points for the route.

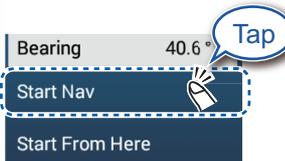


How to follow a route

On-screen route



Tap a leg of the route.



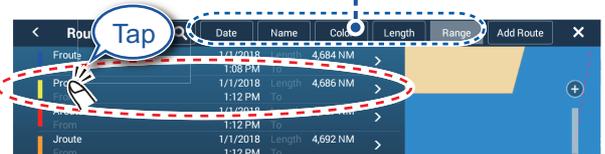
Routes list



Home screen



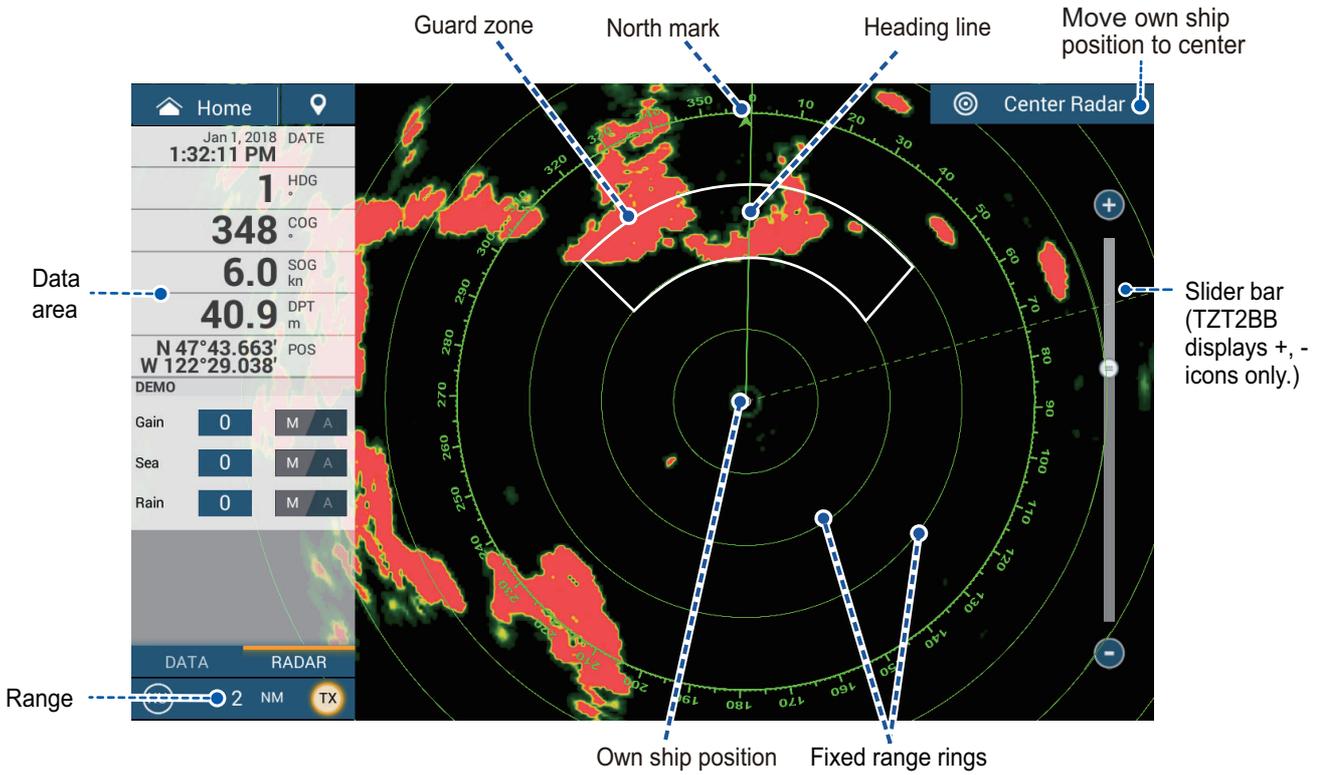
Sort list by date, name, color, length, or range.



Tap the route to use.



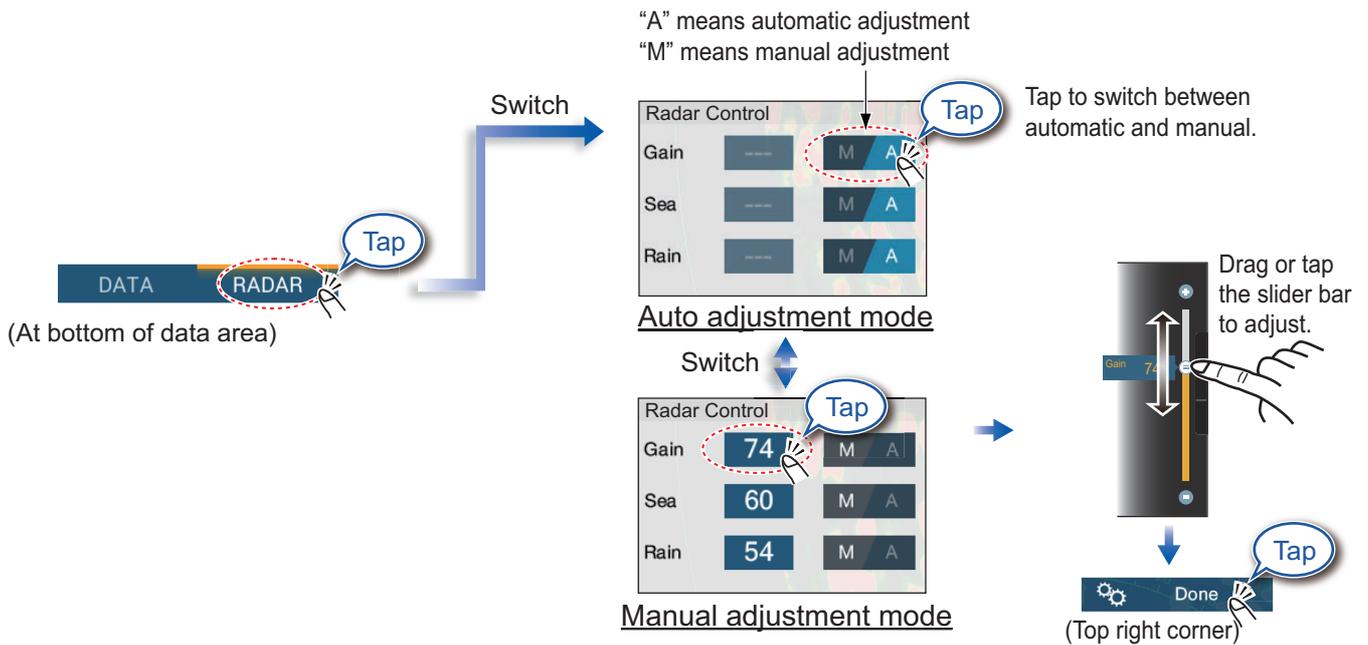
Radar



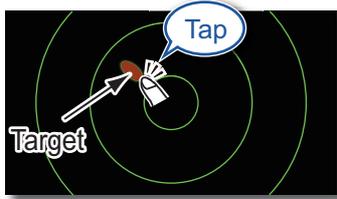
How to switch between standby and TX



How to adjust the gain / sea clutter / rain clutter



How to measure the range, bearing from own ship to a target

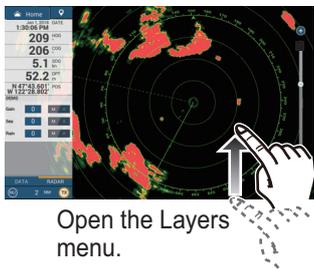


Tap a target to show its range and bearing from own ship.

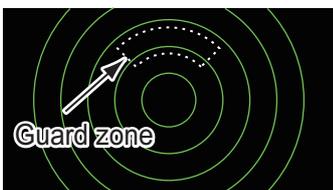
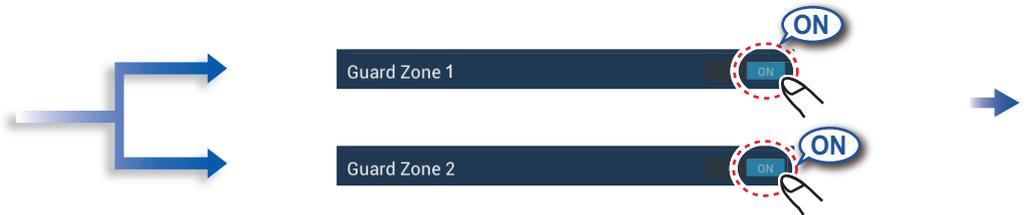


How to set a guard zone

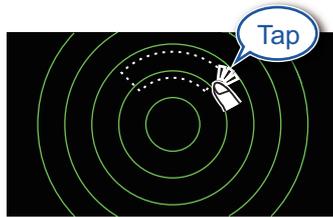
A guard zone alerts you (with aural and visual alarms) when a radar target enters the area you specify.



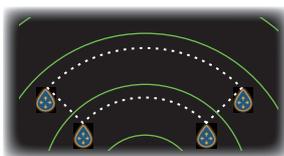
Open the Layers menu.



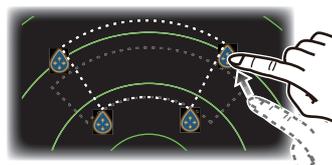
The guard zone appears in dashed lines.



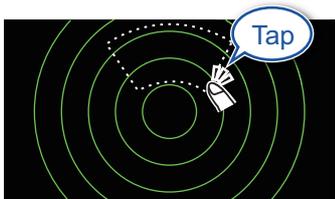
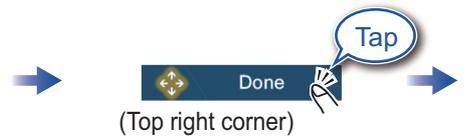
Tap dashed line on guard zone.



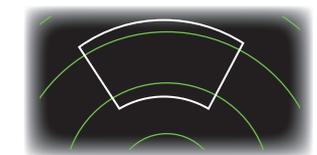
An icon appears at each corner of the guard zone.



Drag the icons to set guard zone.



Tap the guard zone again.

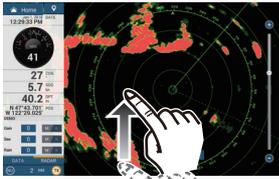


The dashed lines change to solid lines, indicating the guard zone is active.

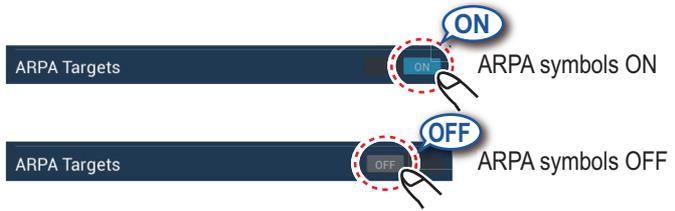
ARPA Operation

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.

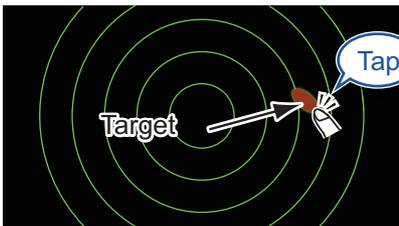
How to show, hide ARPA symbols



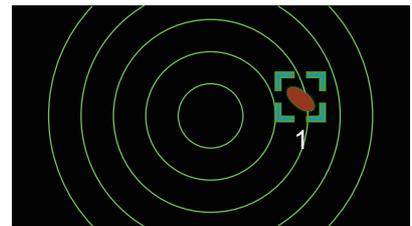
Open the Layers menu.



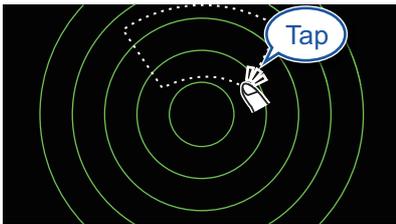
How to manually acquire a target



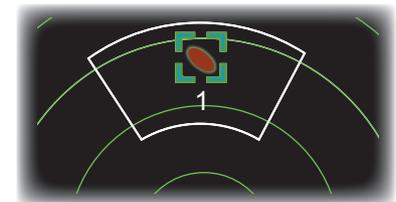
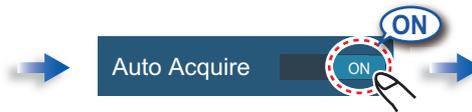
Tap the target to acquire.



How to automatically acquire a target



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

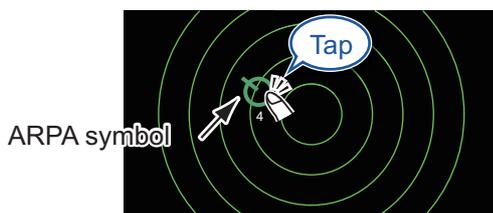


30 seconds
after acquisition



Lost target

How to display target data



ARPA symbol

Tap an ARPA target to show its data.



ID	2
COG	340.1°
SOG	0.8 km
Range	4.278 km
Bearing	82.5°
CPA	4.189 km
TCPA	-2h21'

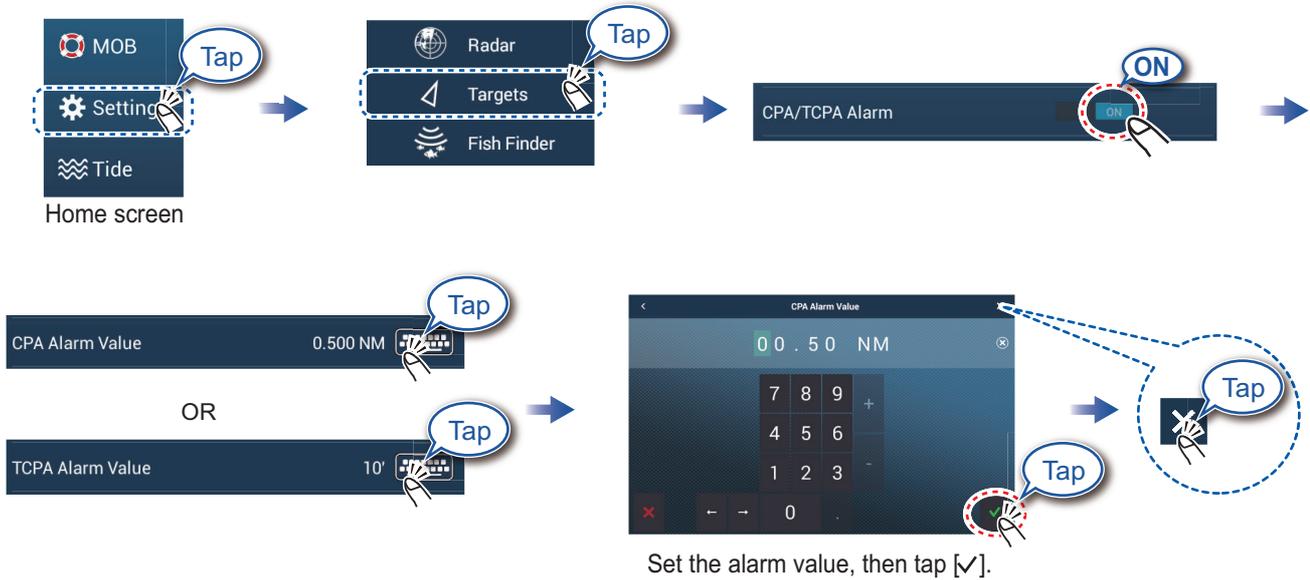
CPA/TCPA alarm

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



How to acknowledge the CPA/TCPA alarm

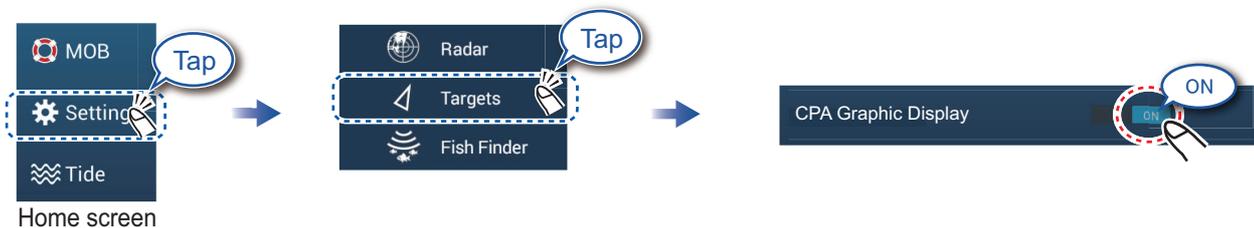
Tap the alarm message (top of screen) to acknowledge the alarm and stop the aural alarm.



CPA Line

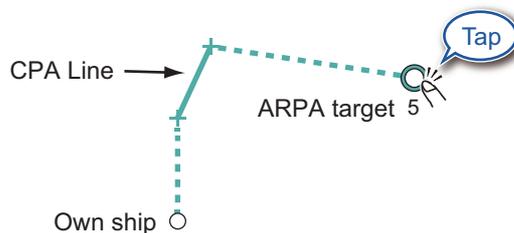
The CPA Line feature gives you a visual line that depicts the closest point of approach to a selected ARPA target. To use this feature, own ship position and heading data are required.

How to enable the CPA Line feature



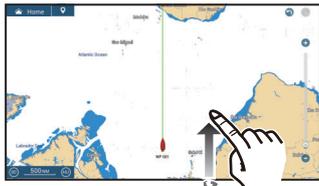
How to show the CPA Line

Tap an ARPA target (condition: target's CPA/TCPA must be a positive value) on the radar or chart plotter.

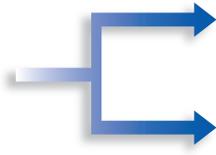


AIS (Automatic Identification System)

How to show or hide AIS target symbols



Open the Layers menu.



AIS Targets

AIS symbols ON

AIS Targets

AIS symbols OFF

AIS target symbols

	Class A AIS	Class B AIS	BFT* AIS
Activated target	SOG and COG vector Color: Blue	SOG and COG vector Color: Green	SOG and COG vector Color: Blue (filled)
Dangerous target	Color: Red		
Lost target	Color - AIS target: Blue - Cross: Red	Color - AIS target: Green - Cross: Red	Color - AIS target: Blue (filled) - Cross: Red

*: Blue Force Tracking

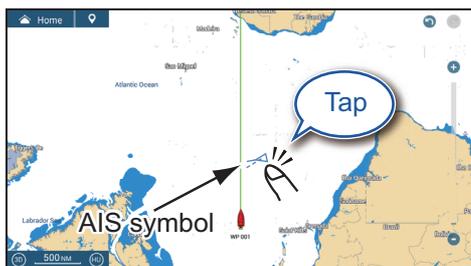
Proximity AIS target alarm

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.

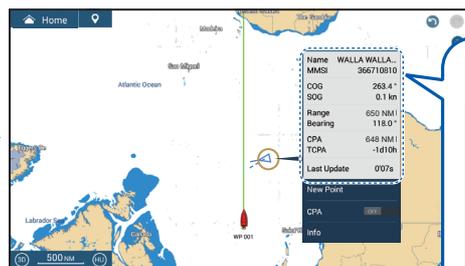


Set the alarm value, then tap [✓].

How to show AIS target data

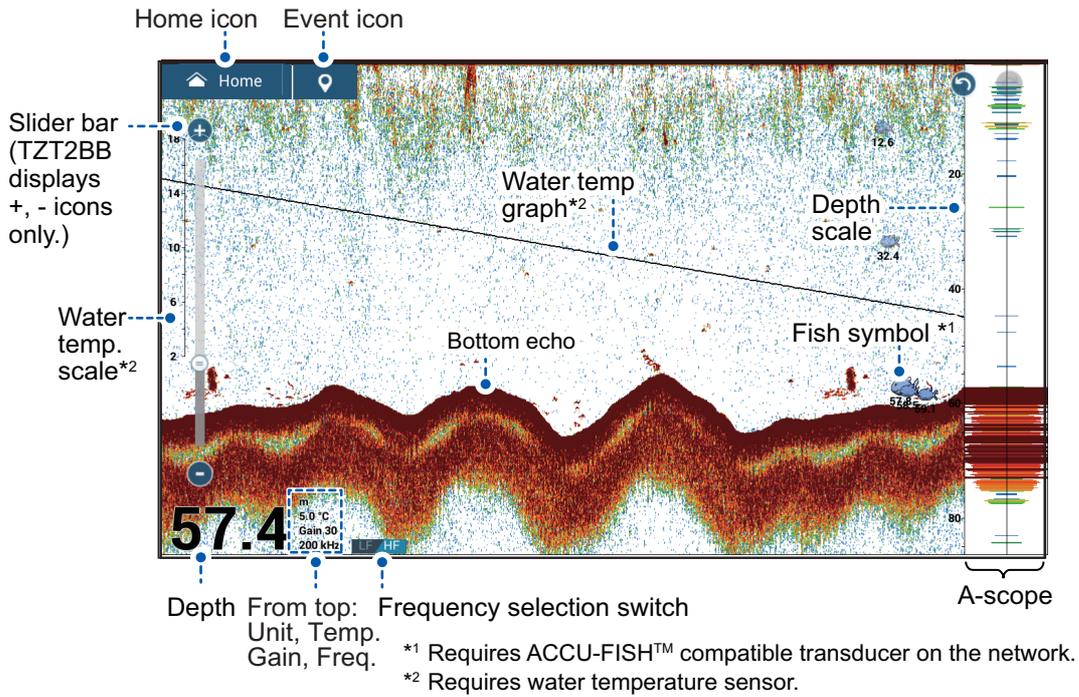


Tap AIS symbol.



Name	WALLA WALLA...
MMSI	366710810
COG	263.4°
SOG	0.1 kn
Range	650 NM
Bearing	118.0°
CPA	648 NM
TCPA	-1d10h
Last Update	0'07s

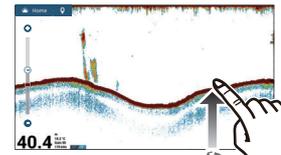
Fish Finder



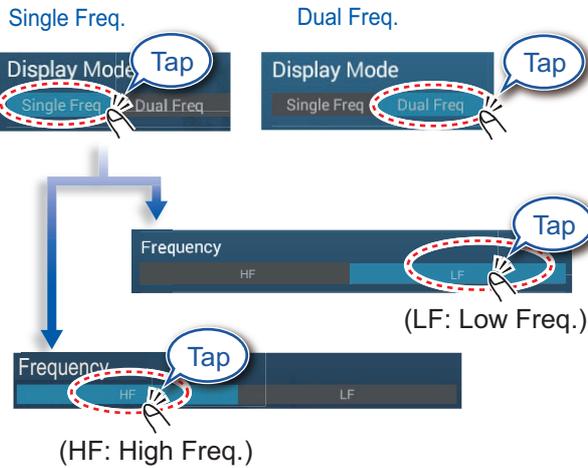
Note: Names of menu items may be different depending on the transducer connected on the network.

How to select a frequency

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

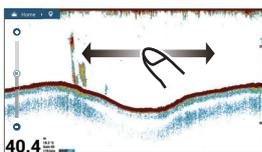


Open the Layers menu.



Note
[TX/STBY] toggles between TX and standby.

How to show past echoes (echo history)

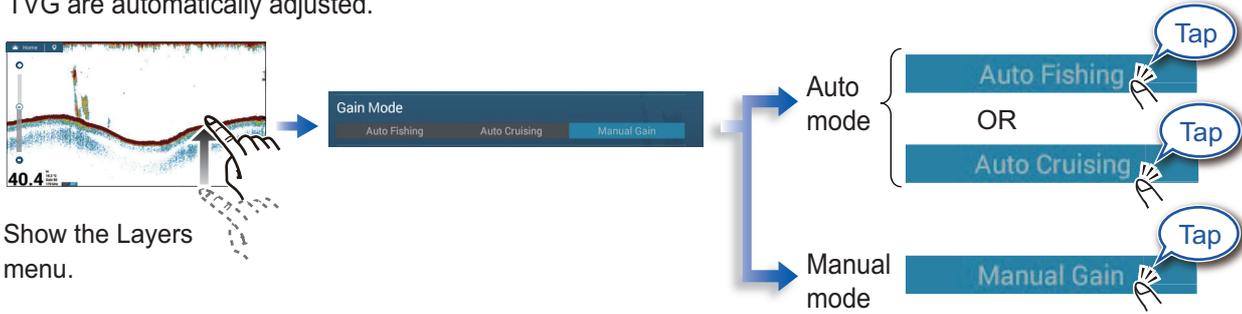


Swipe leftward or rightward to show past echoes.



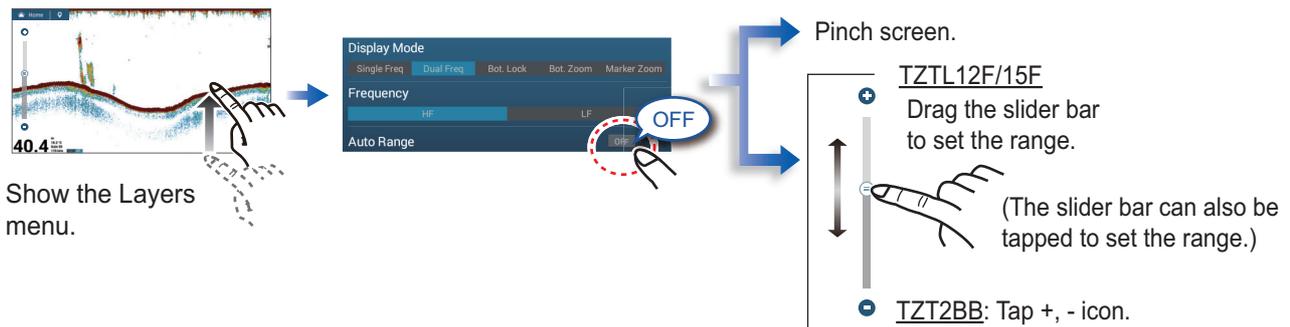
How to select the operating mode

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

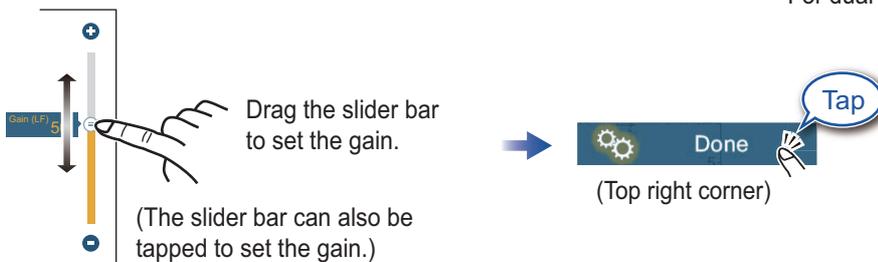


Manual mode

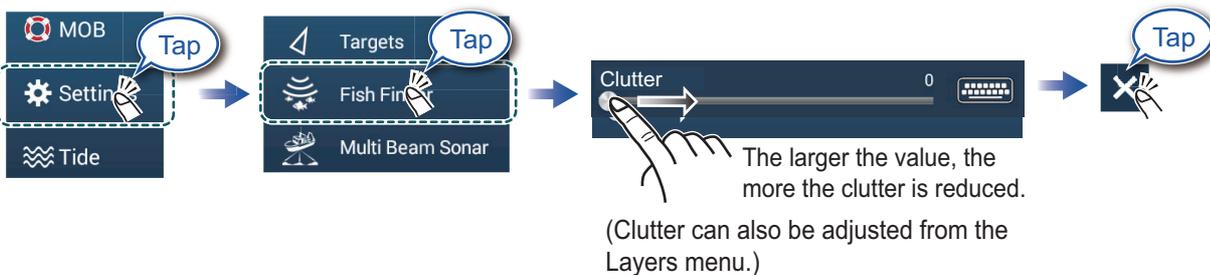
How to change the range



How to adjust the gain



How to reduce clutter



Zoom display

Show the Layers menu.

Bot. Lock Tap Bottom Lock Search for bottom fish.

Bot. Zoom Tap Bottom Zoom Find bottom contour and hardness.

Marker Zoom Tap Marker Zoom Help determine the size of a school of fish in the middle layer.

- Short tail indicates soft bottom.
- Long tail indicates hard bottom.

*: Zoom zone is shown with a yellow square.

ACCU-FISH™/Bottom Discrimination/RezBoost™

Show the Layers menu.

ACCU-FISH ON

Bottom Discrimination OFF

RezBoost Standard

Bottom Discrimination

Show probable bottom hardness. (Requires bottom discrimination capable transducer.)

Bottom Discrimination ON

Bottom discrimination display { 57.6m 19.3°C Gain:50 200 kHz 17.7dB

- Rock
- Gravel
- Sand
- Mud

The most probable bottom material.

RezBoost™

Raise the echo resolution. (Requires RezBoost™ capable transducer.)

RezBoost Standard Enhanced

(Standard mode) (High resolution mode)

ACCU-FISH™

Detected fish can be marked with a fish symbol. (Requires ACCU-FISH™ capable transducer.)

ACCU-FISH ON

Fish symbol

Fish size or depth 12

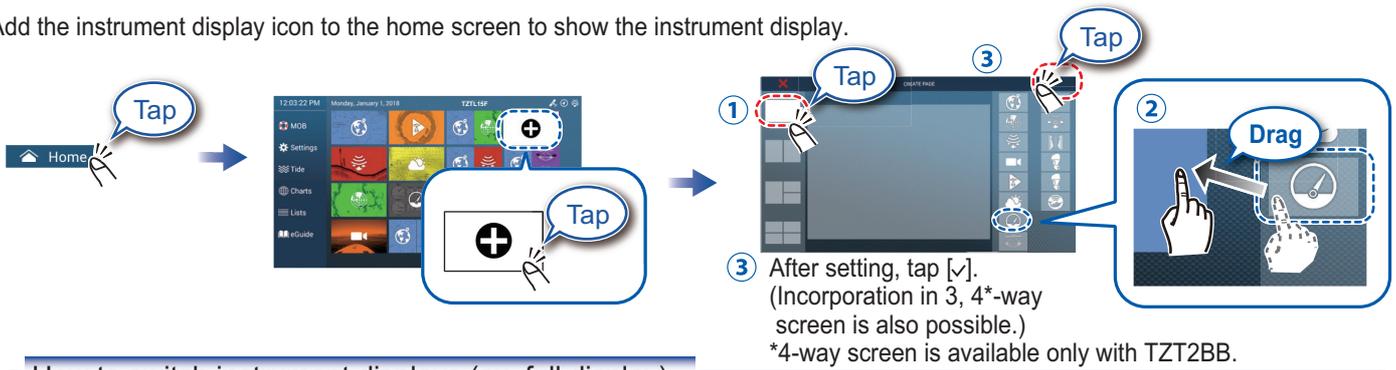
Notice
You can select fish symbol type, and fish size or depth indication from the menu - go to home screen, [Settings], [Fish Finder].

Instrument Display

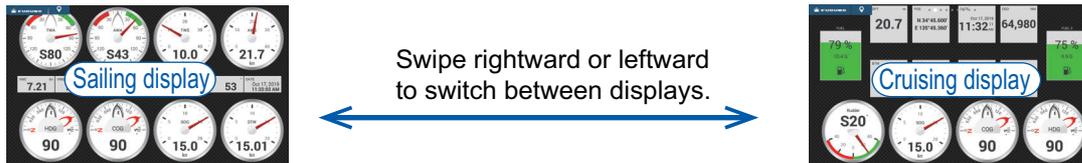
With connection of appropriate sensors, the instrument display shows various navigation data.

How to enable the instrument display

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



How to switch instrument displays (ex. full display)



How to edit the instrument display



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

Edit mode



A white line surrounds each indication.

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

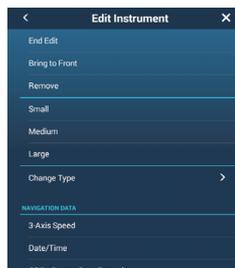
To end the edit mode

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.



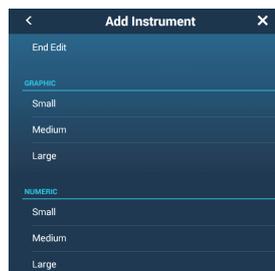
- Remove indication: Tap [Remove].
- Change size: Tap [Small], [Medium], [Large], [Double Extra Large]*.
- Change type: Tap [Change Type], then tap desired size.
- Change indication: Tap indication in [NAVIGATION DATA], [ROUTE INFORMATION], [WIND AND WEATHER], and [ENGINE].

* TZT2BB, numeric displays 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.



Tap added instrument display to change displayed data (see above).

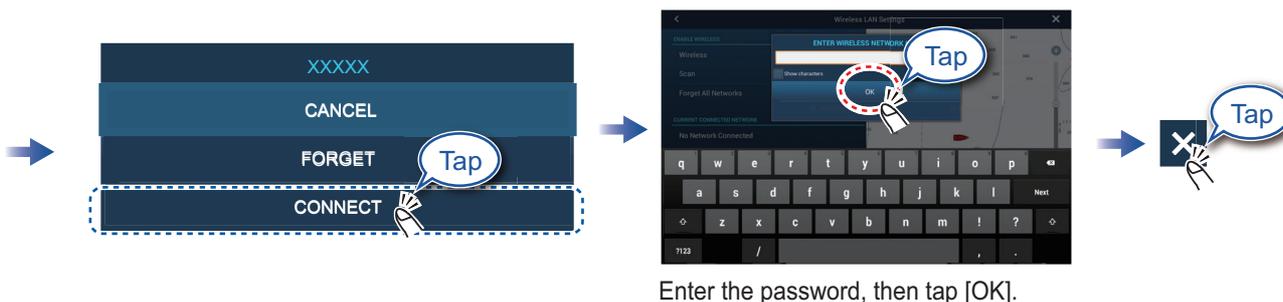
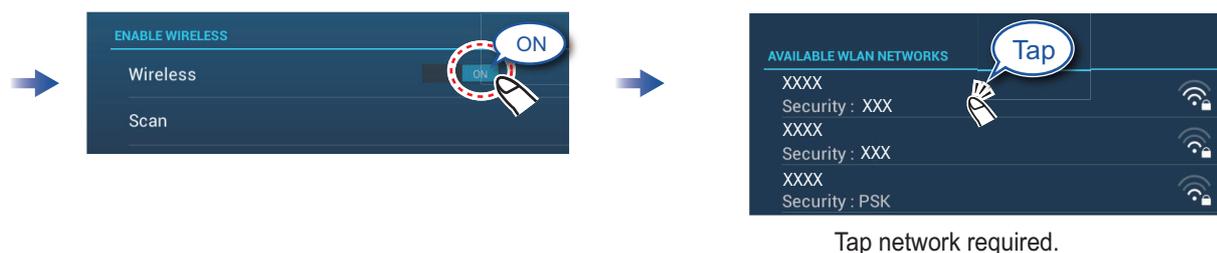
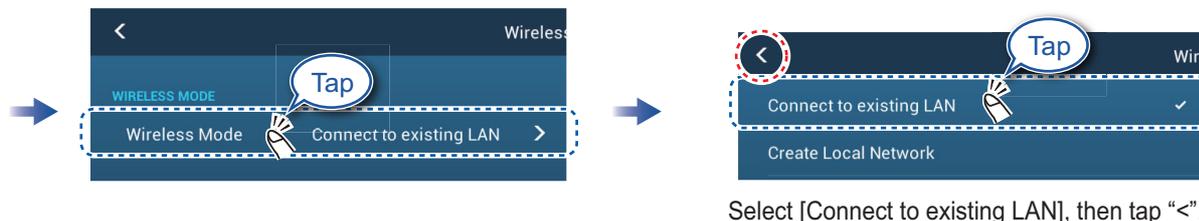
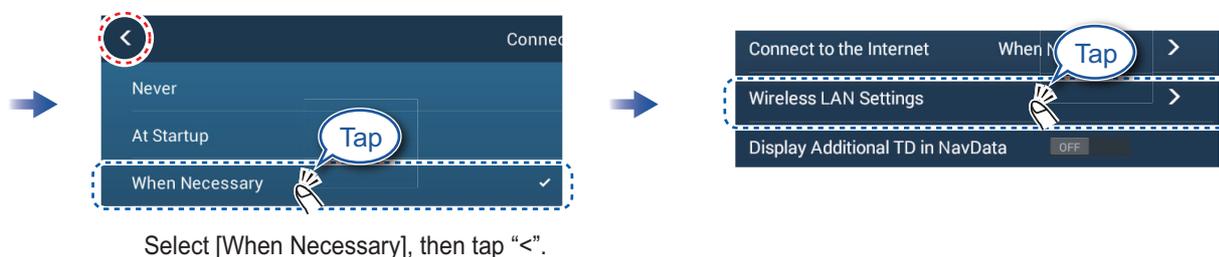
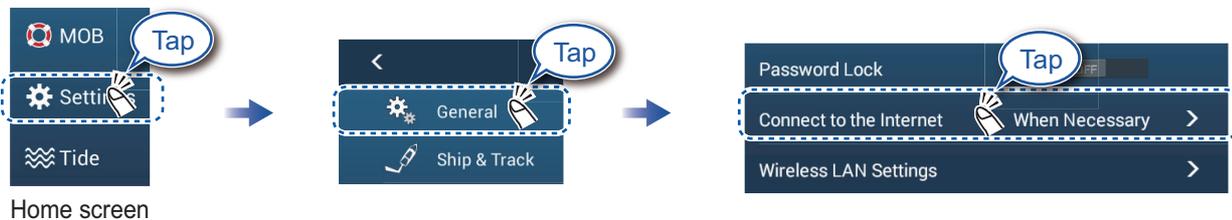
Wireless LAN Settings

You can connect to the internet with the wireless LAN signal to download weather information, update the software (TZT2BB only) and connect to an iPhone, iPod, iPad, or Android™ device, to operate and monitor a NavNet TZtouch2 device.

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

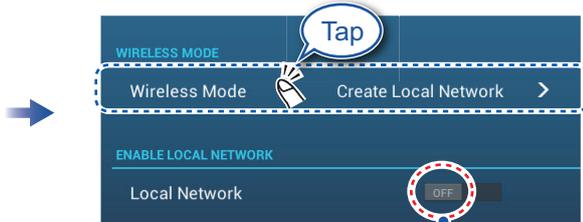
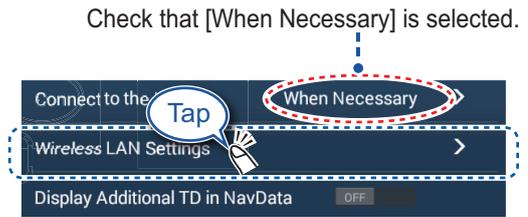
How to connect to an existing LAN

Connect to the existing LAN to download weather data or update the software. For smartphone and tablet settings, refer to appropriate manuals.



How to create a local wireless network

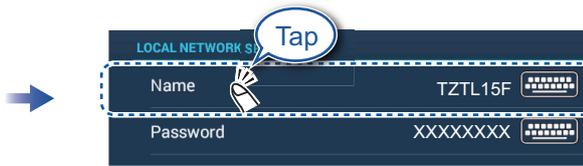
Create a local wireless network to connect to an iPhone, iPod, iPad, or Android device.



Check that [OFF] is selected.



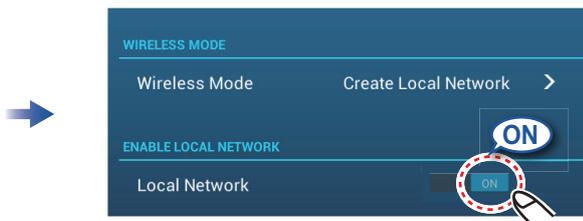
Select [Create Local Network], then tap "<".



Enter the name of the network, then tap [✓].



Enter the password, then tap [✓].



Connect to the NavNet TZtouch2 from the smartphone or tablet.

