FURUNO



MULTI FUNCTION DISPLAY

el TZT22X/24X

Operator's Guide

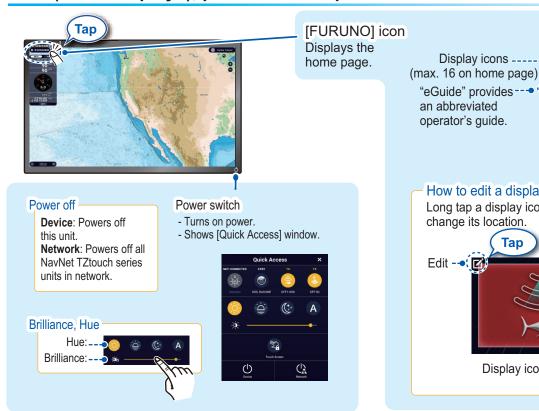
This guide provides the basic operating procedures for this equipment. For detailed information, see the Operator's Manual, available on our homepage. Connection of sensors required.

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The layout of the screen illustrations in this guide may differ depending on your system configuration and settings.

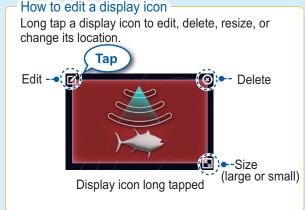
Operational Overview

Icon (home/displays), power switch operations

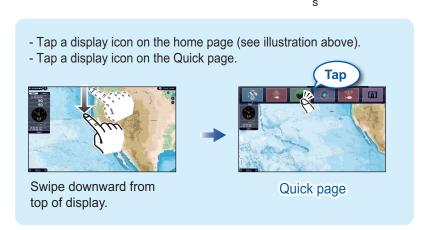


Display icons ----

Home page



How to select a display





Touchscreen operations

Tap



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

Zoom

out

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.

Range buttons Zoom Tap in





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





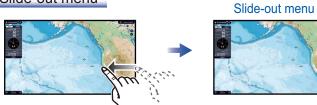
Tap screen (applicable point, object, etc.).

Pop-up menu .



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

Slide-out menu



Swipe leftward from the right edge.

Tap the required function.

Icon color and function state
Yellow: ON, White: OFF

Layers menu



Swipe upward from the bottom edge.



Layers menu



Tap the required function. (To switch between menus, swipe or tap applicable tab.)

Settings menu



Tap the [FURUNO] icon.



Tap [Settings].



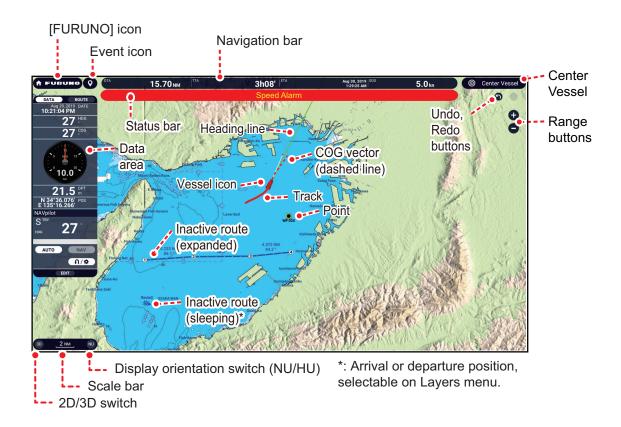
Drag to find required menu, then tap item.



Auto Power On
Password Lock
Edge Swipe Guide
User Interface Auto-Hide

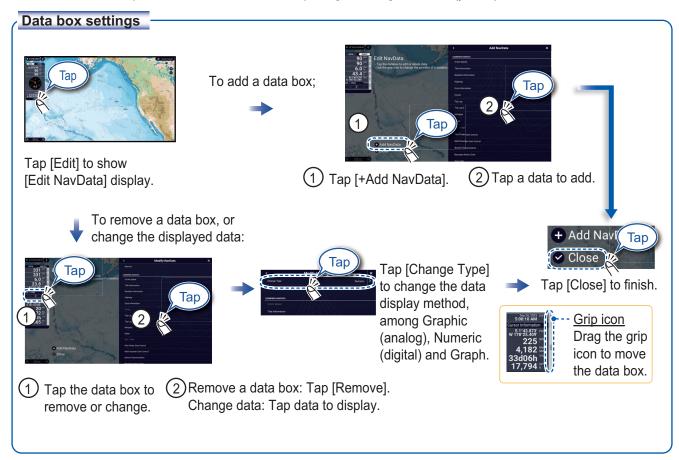
Tap the required menu item.

Chart Plotter



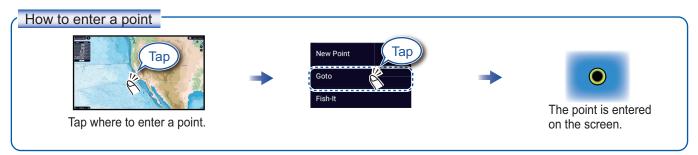
Data Area (Data Box)

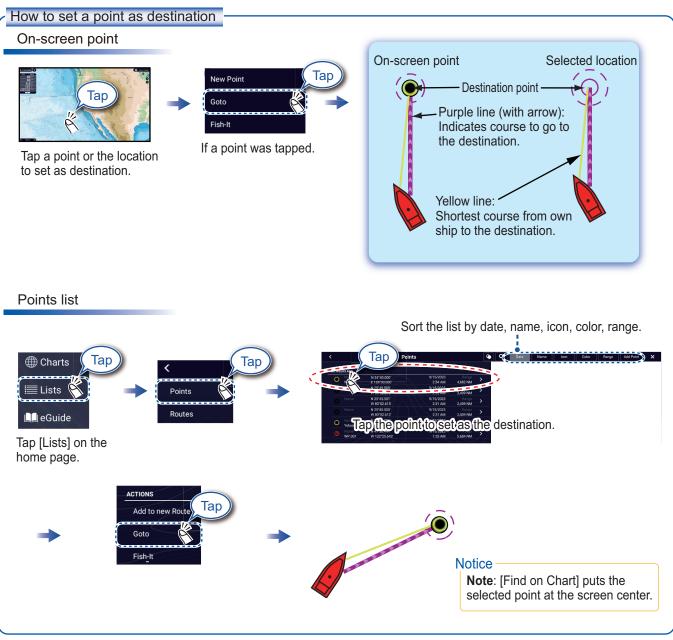
Swipe from the left edge of the screen rightward to show navigation data in the data area at the left edge of the screen. To hide the data area, swipe the data area leftward or tap the [NavData] indication (yellow) in the Slide-out menu.

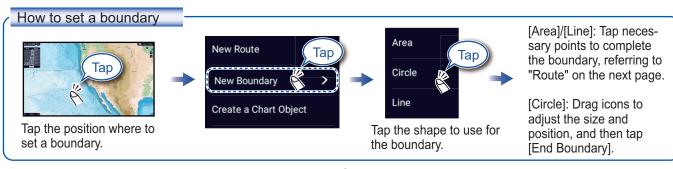


Points/boundaries

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.).

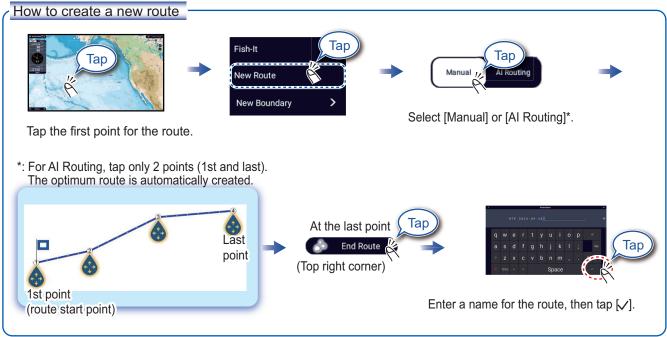


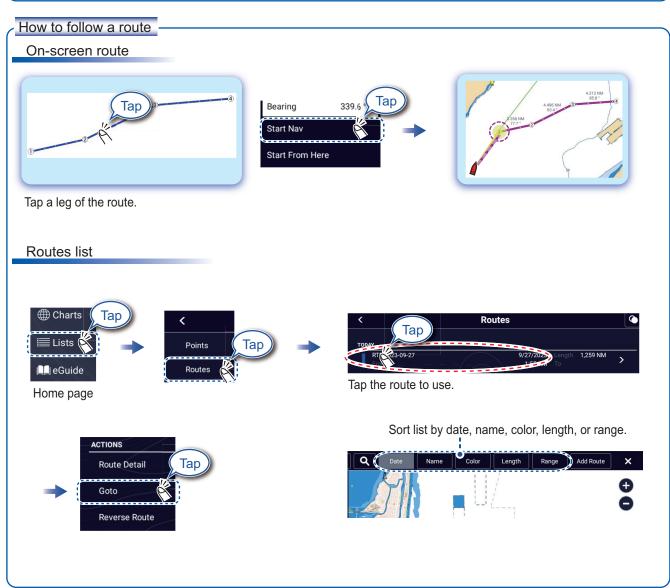




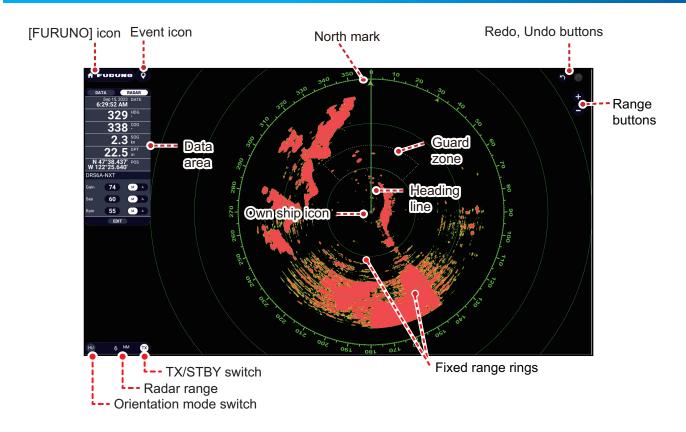
Routes

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

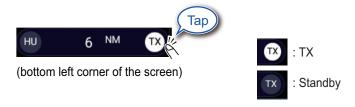




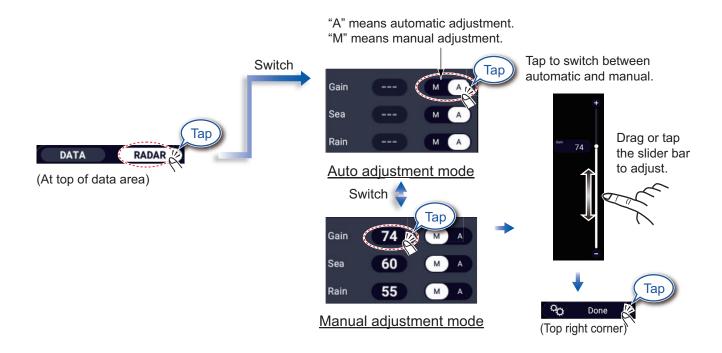
Radar

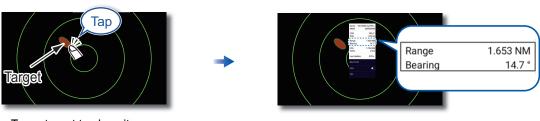


How to switch between standby and TX



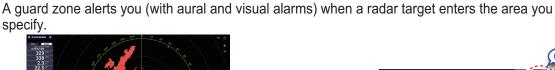
How to adjust the gain / sea clutter / rain clutter

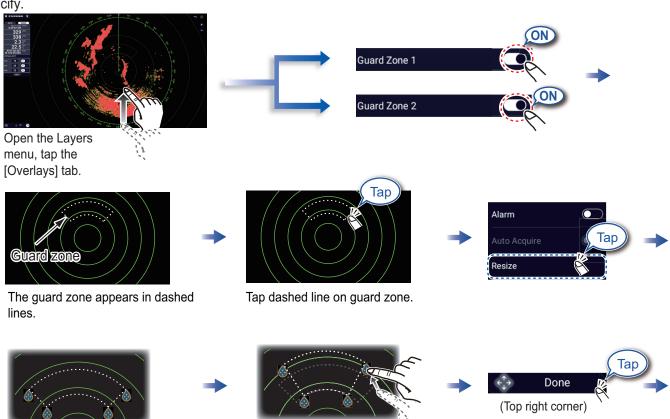




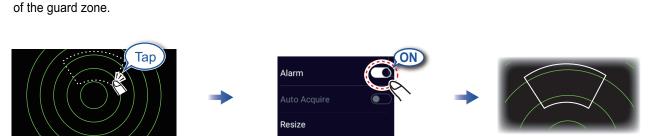
Tap a target to show its range and bearing from own ship.

How to set a guard zone









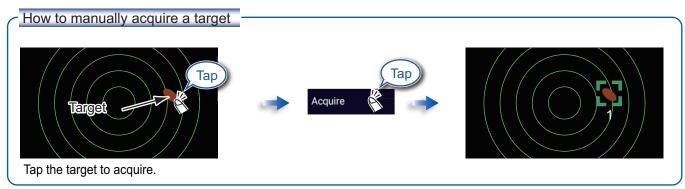
The dashed lines change to Tap the guard zone again. solid lines, indicating the guard zone is active.

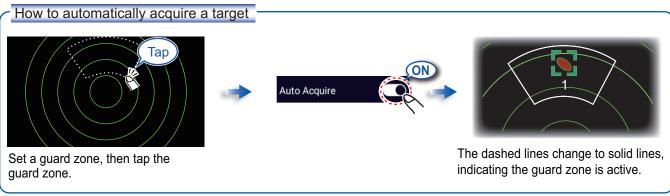
ARPA Operation

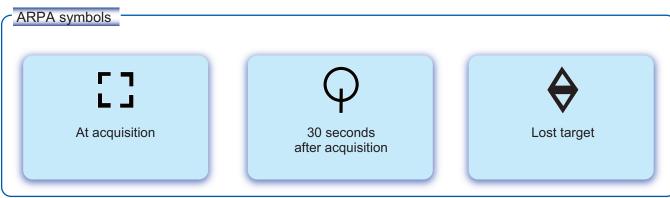
ARPA is an anti-collision aid that tracks the movement of other ships to help prevent collision. ARPA not only tracks other ships but also provides their navigation data. Targets can be acquired manually, automatically, or both automatically and manually.

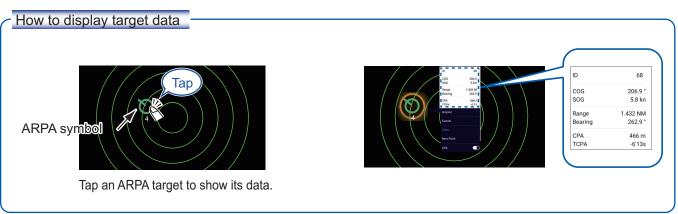












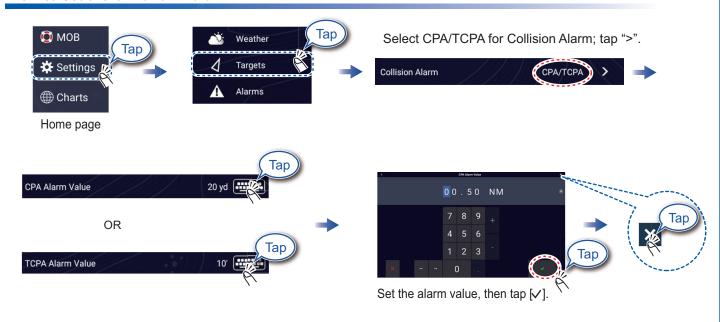
CPA/TCPA alarm

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

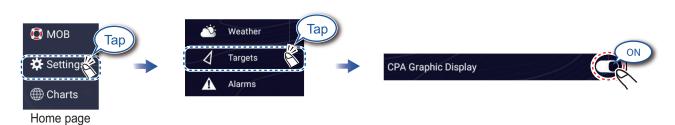
Tap the alarm message (top of screen) to acknowledge the alarm and stop the aural alarm.



CPA Line

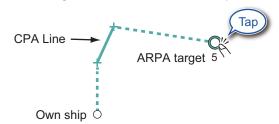
The CPA Line feature gives you a visual line that depicts the closest point of approach to a selected ARPA target. To use this feature, own ship position and heading data are required.

How to enable the CPA Line feature



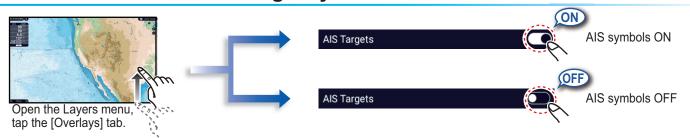
How to show the CPA Line

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



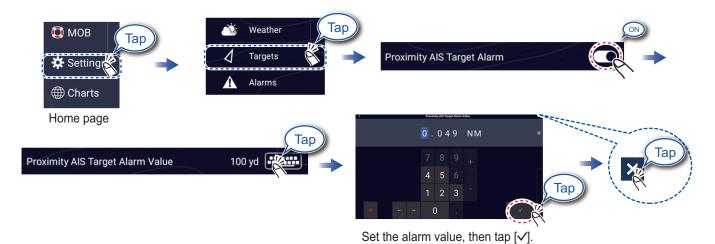
AIS target symbols

| | Class A AIS | Class B AIS | BFT* AIS |
|---------------------|---------------------------------------|--|--|
| Activated target | SOG and COG vector | SOG and COG vector | SOG and COG vector |
| | Color: Blue | Color: Green | 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

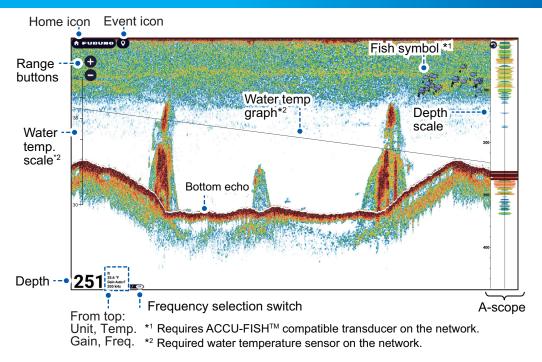
The proximity AIS target alarm releases aural and visual alarms when the distance between own ship and an AIS target is near the alarm value.



How to show AIS target data

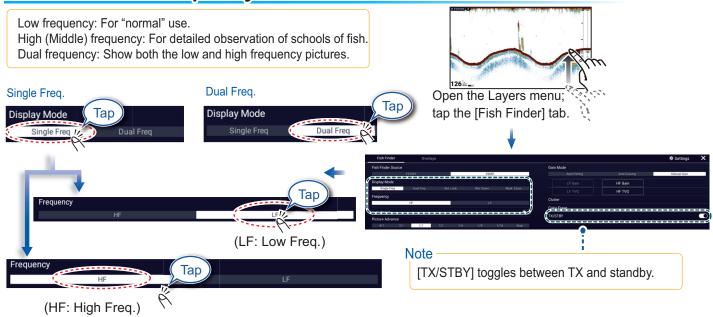


Fish Finder

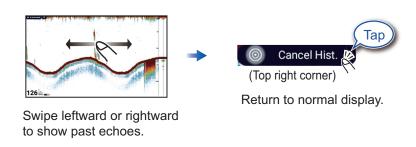


Note: Names of menu items may be different depending on the transducer connected on the network.

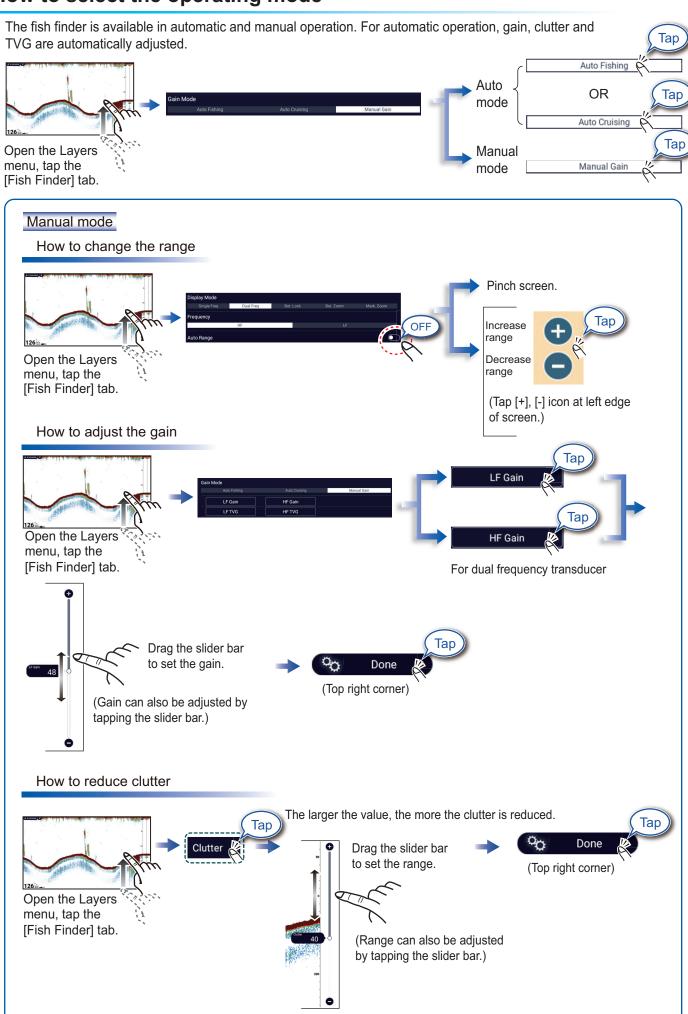
How to select a frequency



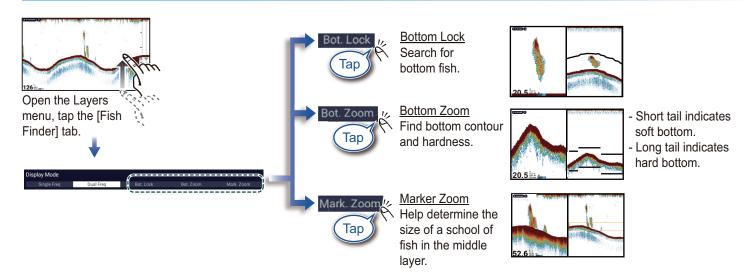
How to show past echoes (echo history)



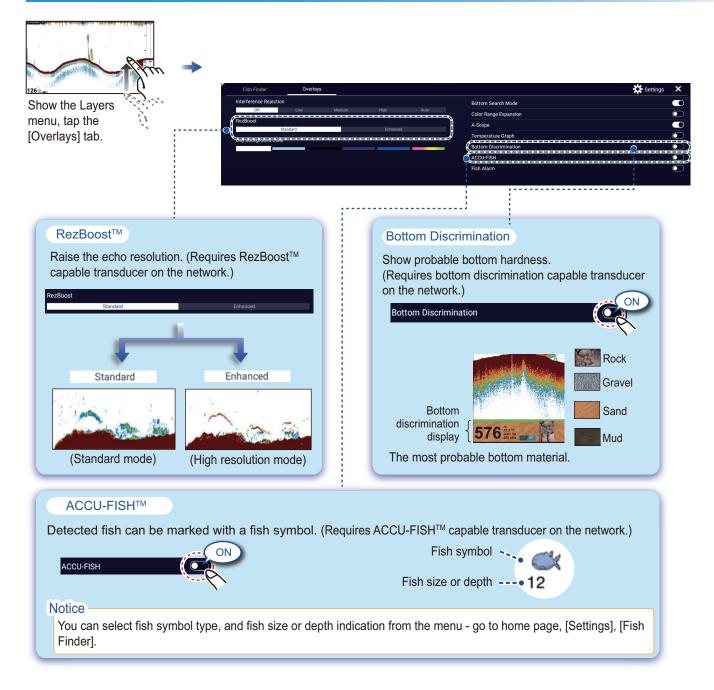
How to select the operating mode



Zoom display



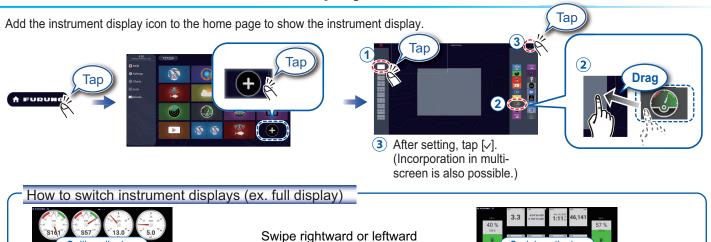
ACCU-FISH™/Bottom Discrimination/RezBoost™



Instrument Display

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

How to enable the instrument display



How to edit the instrument display



Sailing display

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

Edit mode



to switch between displays.

A white line surrounds each indication.



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

To end the edit mode

Cruising display

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

How to remove or change an indication



- 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].
- *: 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, and connect to an iPhone, iPod, iPad, or Android™ device, to operate and monitor a NavNet TZtouch XL device.

