FURUNO

NavNet Viewer/TZ iBoat User's Guide
FISH FINDER
Model **FCV-600/800**

This manual contains an overview of the NavNet Viewer/TZ iBoat application, instructions for downloading and connecting with the FCV unit, and notes that need to be taken into consideration.

Android and Google Play are trademarks or registered trademarks of Google Inc. App Store is a service mark of Apple Inc.

1. Overview

The FCV-600/FCV-800 has a built-in Wireless LAN that allows you to display fish finder echoes on a smart phone or tablet device. The fish finder echoes can be viewed and operated by Android™ or iOS/iPadOS devices, even from a distance inboard. The compatible applications are listed in the table below.

Note: The available applications differ depending on the device OS. Also, the fish finder echoes displayed on each application are slightly different from those displayed on the FCV-600/800.

	NavNet Viewer	TZ iBoat
Application icon		
Compatible OS	Android™	iOS/iPadOS
Supported OS version	4.0.3 or later	14.2 or later
Application version	1.0.12.8 or later	3.0.9 or later
Qty of connectible devices with the FCV unit[1]	Max. five devices	Max. one device
Price	Free of charge	Download: free of charge Fish Finder function: in-app purchase
Functions		
Fish Finder display	Available	Available
Operation & Settings[2]	Not Available[3]	Available
ACCU-FISH™	Available	Available
Bottom Discrimination	Not available	Available
History (Scroll Back mode)	Available	Available
Waypoint (point) entry	Not available	Available[4]
Screen orientation	Limited[5]	Available

[1]: See page 6 for the details on the quantity of connectible devices and their conditions.

[2]: Available settings depend on the application (due to differences in application performance, NavNet Viewer offers less functionality than TZ iBoat in terms of operation and settings).

[3]: The FCV unit side cannot be operated/set, but the settings can be done in the application side.

[4]: Points entered on TZ iBoat application are not transferred to the FCV-600/800. Points entered on the FCV-600/800 are not transferred to TZ iBoat application.

[5]: Echoes are digitally enlarged on landscape orientation with the NavNet Viewer application.

2. How to Download the Application
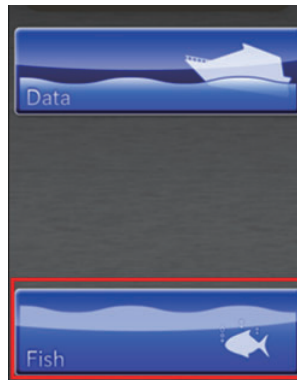
2.1 NavNet Viewer

NavNet Viewer is an application for displaying navigation information. Download and launch the NavNet Viewer application as follows. The application download and fish finder display functions are available free of charge.

Note: NavNet Viewer for iOS/iPad OS does not support the fish finder display function.

1. Download the [NavNet Viewer] application from the Google Play™ on your Android™ device.

2. See page 4 and connect the device to the FCV unit.
3. Open the application.
4. Tap the [Fish] icon to show the fish finder echoes.

2.2 TZ iBoat

TZ iBoat is an application for the iOS/iPad OS. On the free charts, you can display your ship's position and create waypoints and routes. Downloading paid nautical charts (TZ MAPS) and weather services allows for full-scale navigation and route creation. For details on TZ MAPS, contact FURUNO/TIMEZERO or your local dealer or refer to the following URL. https://mytimezero.com/tz-iboat/charts-directory

In addition, destination, route, and picture data can be synchronized with the NavNet TZtouch series.

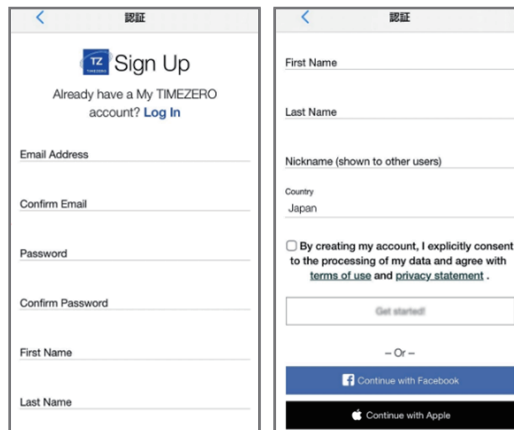Download the TZ iBoat application and purchase the [Module FCV-600/800] as follows.

Note1: Connection to the FCV-600/800 requires in-app purchase. This application is not a subscription, so there is no billing after the application is once purchased.

Note2: This application is not compatible with the Android™ OS.

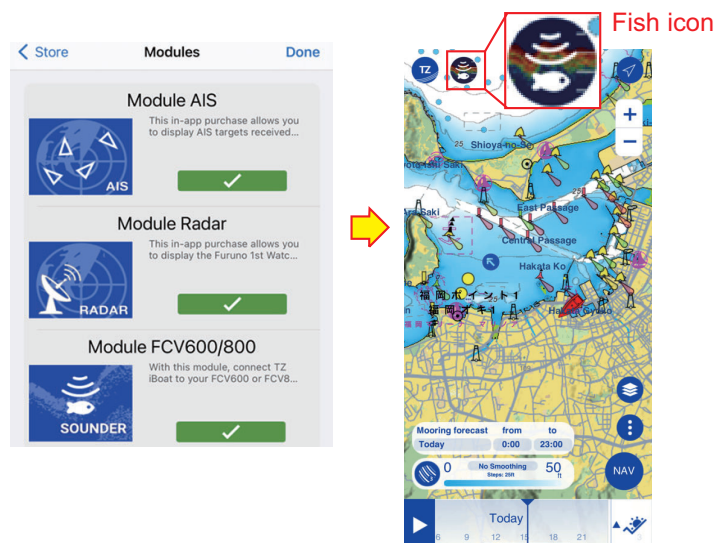1. Download the [TZ iBoat] application from the App Store on your iOS/iPadOS device.

2. Create a My TIMEZERO account and login to the application.
   Note: If you already have an account by TZtouch or another TimeZero app, log in with the same account. Data synchronization of marks and other data that is registered on TZ Cloud is enabled.

3. Tap [Store] > [Modules] > [Module FCV600/800] from the TZ symbol in the upper left corner of the chart plotter screen (main menu) and follow the in-app instructions to purchase the module.

4. After purchasing, check if there is a check mark " ✔ " in the [Module FCV600/800] field. If the check mark is shown, the purchase is complete. A fish icon appears in the top left corner of the chart plotter screen.

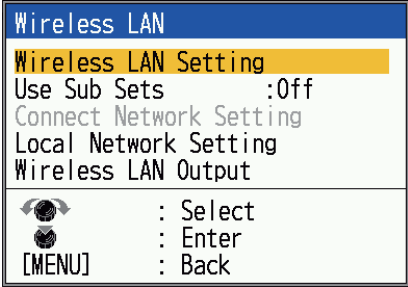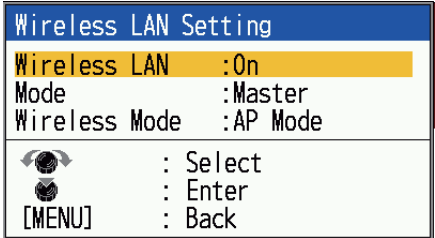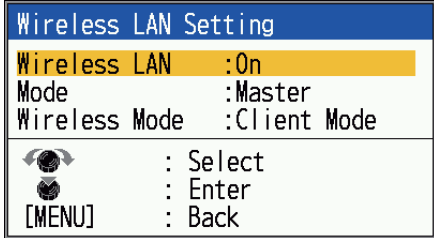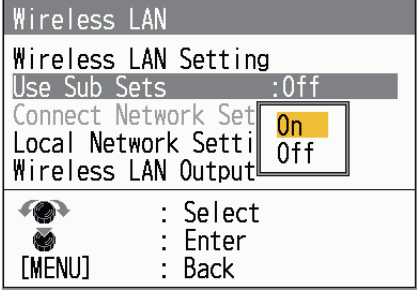Fish icon

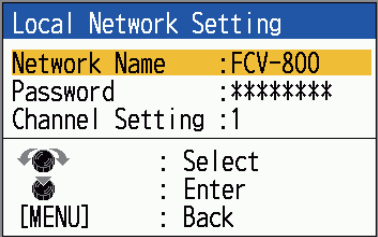5. See page 4 and connect the device to the FCV unit.
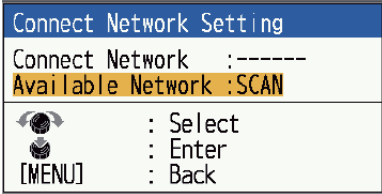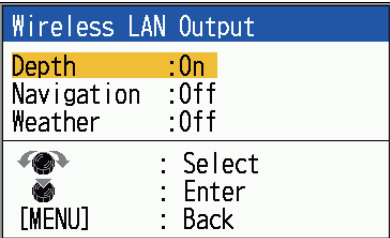
3. How to Connect the Device to the FCV Unit

The FCV and a device (Android™ or iOS/iPadOS) can be connected to a wireless LAN using the following two methods.

A) Connect the FCV unit (main monitor) to the device by using the FCV unit as the wireless LAN access point.
B) Connect the FCV unit to the device by using the wireless LAN access point on board (client mode).

The connection procedure is as follows.

A) Use the FCV unit as the access point	B) Connect to the on board wireless LAN access point
1. Open the menu and select the [Network] > [Wireless LAN] in order. ![Wireless LAN menu screen showing: Wireless LAN Setting (highlighted), Use Sub Sets :Off, Connect Network Setting, Local Network Setting, Wireless LAN Output, : Select, : Enter, [MENU] : Back]	
2. Select the [Wireless LAN Setting] and set as follows. • [Wireless LAN]: On • [Mode]: Master • [Wireless Mode]: AP Mode ![Wireless LAN Setting screen showing: Wireless LAN :On, Mode :Master, Wireless Mode :AP Mode, : Select, : Enter, [MENU] : Back]	2. Select the [Wireless LAN Setting] and set as follows. • [Wireless LAN]: On • [Mode]: Master • [Wireless Mode]: Client Mode ![Wireless LAN Setting screen showing: Wireless LAN :On, Mode :Master, Wireless Mode :Client Mode, : Select, : Enter, [MENU] : Back]
3. Select [Use Sub Sets] and then select one of the following. • [On]: Settings on the TZ iBoat application side are reflected in the FCV-600/800. • [Off]: Settings on the TZ iBoat application side are not reflected in the FCV-600/800. ![Wireless LAN menu screen showing: Wireless LAN Setting, Use Sub Sets :Off (highlighted), Connect Network Set, Local Network Setti, Wireless LAN Output, On/Off dropdown, : Select, : Enter, [MENU] : Back]	

A) Use the FCV unit as the access point	B) Connect to the on board wireless LAN access point

4. Select the [Local Network Setting] and connect the FCV unit and the device with the wireless LAN. Do the following operation on the device side.
 	
• Set the deive wireless LAN to on and select the network name shown below.
• Enter the password set on the FCV side. The network name and password of the FCV unit can be changed on the FCV monitor side.
 	
`Local Network Setting`
`Network Name    :FCV-800`
`Password        :********`
`Channel Setting :1`
`          : Select`
`          : Enter`
`[MENU]    : Back`
	4. Select the [Connect Network Setting] and carry out the following operation.
	
	• Select [Available Network] and select the onboard access point.
	• Connect the device to the same access point.
	
	`Connect Network Setting`
	`Connect Network    :------`
	`Available Network :SCAN`
	`          : Select`
	`          : Enter`
	`[MENU]    : Back`

5. Select [Wireless LAN Output] and select the output data to send from the FCV unit to the device.
 	
`Wireless LAN Output`
`Depth       :On`
`Navigation  :Off`
`Weather     :Off`
`          : Select`
`          : Enter`
`[MENU]    : Back`
 	
Note: The device GPS location information is not be output to the FCV unit.	

6. When the icon 📶 appears in the top right corner of the FCV's monitor, the connection is complete.	6. When the icon 📶 appears in the top right corner of the FCV's monitor, the connection is complete.

Note: After closing the [Wireless LAN] window by pressing the **MENU/ESC** key, the "Restart to apply changes?" confirmation mes-sage appears. Select "Yes" and restart the FCV system.
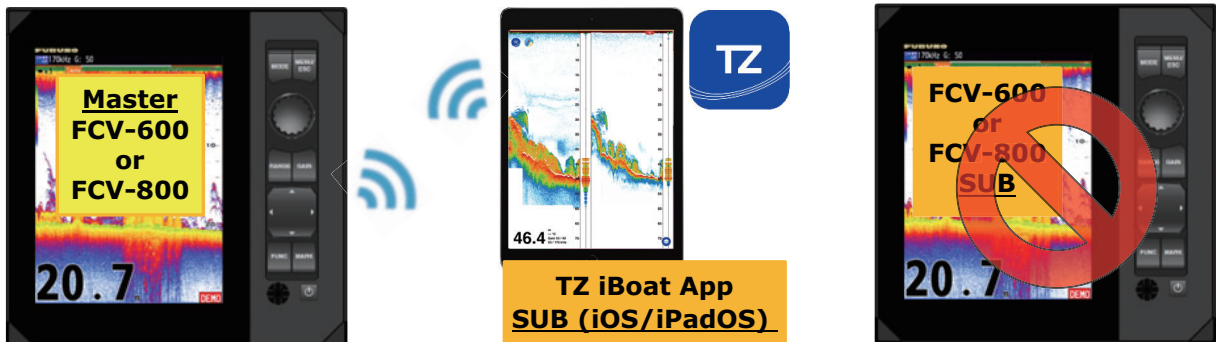
4. Connection Considerations

By connecting two FCV units via wireless LAN, the FCV unit itself can be used as a sub-monitor (only one sub-monitor can be connected). The following are the factors that need to be taken into consideration when connecting the sub-monitor and the device.

- When the FCV unit is used as a sub monitor, the TZ iBoat application cannot be added and connected.

- When the iPhone/iPad is connected to the FCV unit and the TZ iBoat application is used, additional sub-monitor of the FCV cannot be connected.
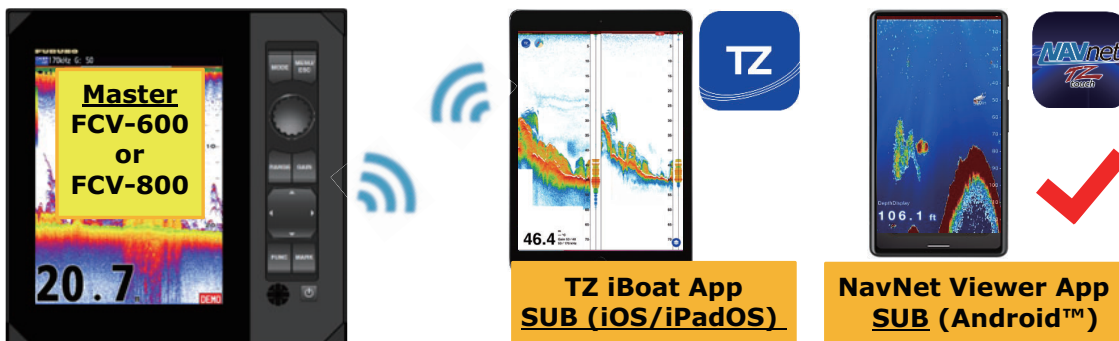

- The Android™ device (NavNet Viewer) can be transmitted with FCV sub-monitor or iPhone/iPad (TZ iBoat).
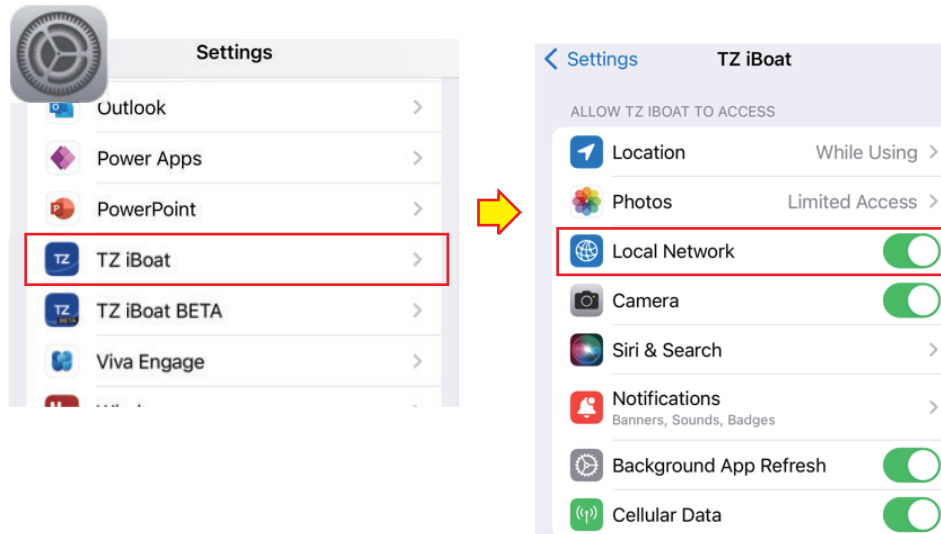   - The FCV unit sub-monitor + Android™ (max. five devices)

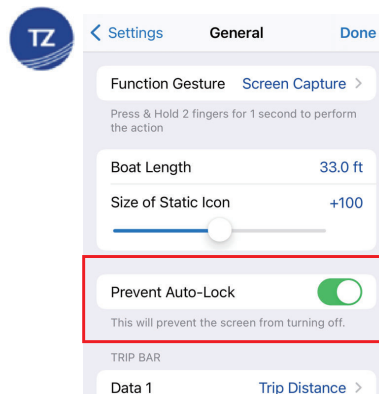   - iPhone/iPad + Android™ (max. five devices)

5. Other Operational Considerations

- Use the application with the FCV-600/800 software version V2.05 or later.

- When using the TZ iBoat with iPhone/iPad, set the [Local Network] to [ON] (from the [Settings] > [TZ iBoat] menu > [Local Network] > [ON]).

- The TZ iBoat can disable the automatic screen lock (switch to sleep mode) with the following settings (TZ symbol of the TZ iBoat > [Settings] > [General] > [Prevent Auto-Lock] > [ON]).

Note: When the setting is set to [OFF], and there is no screen operation for a certain period of time, the application screen is closed and the screen is automatically locked.

- The maximum signal range of the wireless LAN is 10 m. However, the signal range varies depending on the transmission environment on board. Check the transmission condition before use. When the FCV unit is connected to the device by using the wireless LAN access point on board, the signal strength can be checked from the wireless LAN icon shown on the top right corner of the FCV display. The number of bars on the wireless LAN icon indicates the signal strength.

Icon	Meaning	Icon	Meaning
3 ( )	Strong	1 ( )	Weak
2 ( )	Average	0 ( )	Extremely weak/ No connection

- Alarms set on the FCV-600/800 side are not output to the device application. The aural alarm is activated only by the FCV unit.