

Furuno TZTBB

Furuno NavNet TZTouch Black Box User Manual

Model: TZTBB

1. INTRODUCTION

The Furuno NavNet TZTouch Black Box (Model TZTBB) is a sophisticated marine navigation system designed to provide an intuitive and powerful experience. This system utilizes advanced TimeZero technology for seamless chart handling and integrates various functionalities including radar, fish finder, and wireless connectivity. This manual provides essential information for the proper setup, operation, and maintenance of your NavNet TZTouch Black Box.



Figure 1: Furuno NavNet TZTouch Black Box with external power switch.

2. SAFETY INFORMATION

Please read all safety instructions carefully before operating the device. Failure to follow these instructions may result in injury or damage to the product.

- Ensure proper power supply and grounding to prevent electrical hazards.
- Installation should be performed by qualified personnel to ensure correct wiring and mounting.
- Do not expose the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.
- Keep the unit away from strong magnetic fields.
- This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

3. PRODUCT OVERVIEW

The NavNet TZTouch Black Box is designed to be the central processing unit for your marine navigation system, connecting to external displays and peripherals. Key features include:

- **TimeZero Technology:** Provides seamless chart handling, zooming, and panning without screen redraws.
- **Multi-Touch Gestures:** Supports pinch-to-zoom and other intuitive gestures when connected to a compatible touch display.
- **Chart Compatibility:** Supports official NOAA raster and vector charts, C-Map by Jeppesen, and Datacore by Navionics vector cartography.
- **UHD Digital Radar Integration:** Offers crystal clear target presentation with automatic digital signal processing (Radar antenna sold separately).
- **FDF Fish Finder Capability:** Advanced filtering and auto-tuning for clear fish detection (Fishfinder module sold separately).
- **WiFi Connectivity:** Enables remote operation via smartphone/tablet apps (TZtouch Remote) and access to real-time weather data.



Figure 2: Detailed view of the Black Box unit, showing network ports and mounting brackets.

4. SETUP AND INSTALLATION

The NavNet TZTouch Black Box is designed for professional installation. Ensure all components are securely mounted and correctly wired according to the provided installation guide (not included in this manual).

4.1. Components Included

- Furuno NavNet TZTouch Black Box Unit
- External Power Switch
- SD Card Reader
- Alarm Module

4.2. Wiring and Connections

1. **Power Connection:** Connect the Black Box to a stable 12-24V DC power source using appropriate marine-grade wiring. Ensure the external power switch is correctly integrated into the power circuit.
2. **Display Connection:** Connect your compatible marine display to the Black Box via the designated video output ports (e.g., HDMI, DVI).
3. **Network Connections:** Use Ethernet cables to connect the Black Box to other NavNet devices (e.g., radar, fish finder, GPS antenna) and network hubs. The unit features multiple network ports for system expansion.
4. **SD Card Reader:** Connect the external SD card reader for chart updates and data transfer.
5. **Alarm Module:** Integrate the alarm module for audible alerts related to navigation warnings or system status.

5. OPERATING INSTRUCTIONS

Once installed and powered on, the NavNet TZTouch Black Box system is controlled via your connected display, typically a touch-screen monitor.

5.1. Basic Navigation

- **Power On/Off:** Use the external power switch to turn the system on or off.
- **Pinch-to-Zoom:** On a touch-enabled display, use two fingers to pinch in or out to zoom the chart.
- **Panning:** Drag a single finger across the screen to pan the chart view.
- **Menu Access:** Tap specific areas of the screen or use dedicated buttons on your display to access menus and functions.

5.2. Advanced Features

- **Chart Selection:** Navigate through the menu to select your preferred chart type (raster, vector) and source (NOAA, C-Map, Navionics).
- **Radar Overlay:** If a radar antenna is connected, enable the radar overlay feature to display radar targets directly on the chart. This can be viewed in both 2D and 3D modes.
- **Fish Finder Operation:** With a connected FDF Fish Finder module, access the fish finder display to view sonar returns, adjust gain, and identify fish targets.
- **WiFi Connectivity:** Connect your smartphone or tablet to the NavNet network via Wi-Fi. Download the "TZtouch Remote" app to control your system remotely.
- **Weather Tool:** Utilize the built-in weather tool to access free weather forecasts worldwide via NavCenter. Select geographic coverage, data type, and period.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your NavNet TZTouch Black Box.

- **Cleaning:** Keep the Black Box unit and connected display clean. Use a soft, damp cloth for the exterior. Avoid abrasive cleaners or solvents.
- **Software Updates:** Periodically check for software updates available through Furuno's official channels or via the system's WiFi connectivity. Updates can improve performance and add new features.
- **Cable Inspection:** Regularly inspect all cables and connections for signs of wear, corrosion, or damage. Ensure all connections are secure.
- **Ventilation:** Ensure the Black Box unit has adequate ventilation to prevent overheating. Do not block any vents.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

7.1. No Power

- Check the external power switch to ensure it is in the ON position.
- Verify all power cables are securely connected to the Black Box and the power source.
- Check the vessel's fuse or circuit breaker for the marine electronics system.

7.2. No Display Output

- Ensure the display monitor is powered on and set to the correct input source.
- Check the video cable connection between the Black Box and the display.
- Try connecting a different compatible display to rule out a display issue.

7.3. Network Devices Not Detected

- Verify that all network cables (Ethernet) are securely connected to the Black Box and the respective devices (radar, fish finder, etc.).
- Ensure all networked devices are powered on.
- Check the network settings within the NavNet TZTouch system menu.

For more complex issues, refer to the detailed service manual or contact Furuno customer support.

8. SPECIFICATIONS

Feature	Specification
Model Name	Furuno Navnet TZ Touch Black Box - No Display TZTBB
Manufacturer	Furuno
Dimensions (L x W x H)	17 x 21 x 17 inches (Item) / 21 x 17 x 17 inches (Package)
Weight	41 Pounds (Item) / 31 Pounds (Package)
Color	Black
Material	Plastic
Included Components	External power switch, SD card reader, alarm module
Special Feature	Alarm
UPC	611679341457

9. WARRANTY AND SUPPORT

The Furuno NavNet TZTouch Black Box comes with a manufacturer's warranty. Please refer to the warranty documentation provided with your purchase for specific terms and conditions.

For technical support, service, or warranty claims, please contact Furuno customer service or an authorized Furuno

dealer. Contact information can typically be found on the official Furuno website or in your product packaging.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question