

Furuno FI70

Furuno FI70 4.1 inch Color LCD Instrument/Data Organizer User Manual

1. INTRODUCTION

The Furuno FI70 is a 4.1-inch Color LCD Instrument/Data Organizer designed for marine applications. It features a vibrant, fog-free display that ensures excellent visibility even in bright daylight conditions. This device allows for the connection of various external sensors via a CAN bus network, providing reliable operation and comprehensive data display.

1.1 Key Features

- Vibrant 4.1-inch color LCD screen with fog-free performance.
- Excellent visibility in bright daylight.
- Compatible with external sensors via CAN bus network.
- Multiple display modes: Heading, Wind, Engine, AIS, Graph, Timer, Highway, Nav Data, Rudder, Roll & Pitch.
- Customizable user interface for personalized data presentation.
- Low power consumption (0.15 A maximum).
- Designed to cosmetically match NavNet TZtouch/TZtouch2 and NavPilot 711C systems.

1.2 Package Contents

Verify that all items are present in the package:

- Furuno FI70 4.1 inch Color LCD Instrument/Data Organizer unit.
- Mounting hardware.
- Power/data cable.
- Installation template.

2. SAFETY INFORMATION

Read all instructions carefully before installation and operation. Failure to follow these instructions may result in product damage, property damage, or serious injury.

- **Installation:** Ensure the unit is installed in a stable location, away from excessive heat, direct sunlight, and moisture. Proper ventilation is crucial.
- **Electrical Connections:** All electrical work should be performed by a qualified technician. Ensure power is disconnected before making any connections. Use appropriate fuses and wiring gauges.
- **Operation:** Do not operate the device if it appears damaged. Keep the screen clean and free from obstructions.
- **Maintenance:** Only use recommended cleaning agents. Do not attempt to open or repair the unit yourself; refer to qualified service personnel.

3. SETUP

3.1 Mounting the FI70

The FI70 can be mounted on a dashboard or windshield. Choose a location that provides clear visibility to the operator and is protected from direct impact or excessive vibration. Use the provided template for accurate cutting and drilling.



Image 1: Furuno FI70 unit mounted on a boat dashboard, displaying data. The screen shows various navigational information clearly visible in a marine environment.

3.2 Electrical Connections

Connect the FI70 to a 12V DC power source. Ensure the power cable is routed safely and secured to prevent damage. The unit has low power consumption, drawing a maximum of 0.15 A.

3.3 CAN Bus Network Connection

The FI70 connects to external sensors and other compatible devices (e.g., NavNet TZtouch/TZtouch2, NavPilot 711C) via a CAN bus network. Connect the CAN bus cables according to the network diagram provided with your system. This allows for seamless data exchange and integration of various marine instruments.

3.4 Initial Power-On

After all connections are secure, apply power to the unit. The FI70 will perform a self-test and then display the default screen. Follow the on-screen prompts for initial setup, including language and basic display preferences.

4. OPERATING THE FI70

4.1 User Interface

The FI70 features an intuitive user interface. Navigation through menus and options is typically done using the physical buttons or, if applicable, the touchscreen functionality. Refer to the on-screen prompts and the detailed menu structure for specific operations.

4.2 Display Modes

The FI70 offers a variety of display modes to suit different informational needs. To switch between modes, access the main menu and select the desired display. Available modes include:

- **Heading:** Displays current vessel heading.
- **Wind:** Shows wind speed and direction (requires wind sensor).
- **Engine:** Provides engine data such as RPM, temperature, and fuel level (requires engine interface).
- **AIS:** Displays Automatic Identification System data for nearby vessels (requires AIS receiver).
- **Graph:** Presents historical data in graphical format.
- **Timer:** Useful for race starts or other timed events.
- **Highway:** Navigational display for route following.
- **Nav Data:** Comprehensive display of GPS and navigation information.
- **Rudder:** Shows rudder angle (requires rudder sensor).
- **Roll & Pitch:** Displays vessel stability information (requires motion sensor).

4.3 Customizing Displays

One of the key features of the FI70 is its customizable interface. Users can configure the layout, data fields, and appearance of each display mode to show the most relevant information. Access the 'Settings' or 'Display Options' menu to personalize your views.

5. MAINTENANCE

5.1 Cleaning the Unit

To maintain optimal visibility and performance, regularly clean the FI70 screen and casing. Use a soft, damp cloth with mild soap or a specialized screen cleaner. Avoid abrasive materials or harsh chemicals that could damage the screen or finish.

5.2 Software Updates

Periodically check the Furuno website for available software updates. Updates may include performance enhancements, new features, or bug fixes. Follow the instructions provided with the update package for proper installation.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your FI70 unit.

| Problem | Possible Cause | Solution |
|---------------------------------|---|--|
| Unit does not power on | No power supply; Blown fuse; Loose connection | Check power source; Inspect and replace fuse if necessary; Verify all power cable connections. |
| Display is dim or unreadable | Brightness setting too low; Screen dirty | Adjust brightness in settings; Clean the screen. |
| No sensor data displayed | Sensor not connected; CAN bus issue; Sensor malfunction | Check CAN bus connections; Verify sensor operation; Consult sensor manual. |
| Unit freezes or responds slowly | Software issue; Overheating | Perform a soft reset (refer to manual for procedure); Ensure proper ventilation; Check for software updates. |

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact Furuno customer support.

7. SPECIFICATIONS

| Feature | Specification |
|-------------------------|---|
| Brand | Furuno |
| Model Name | FI70 |
| Screen Size | 4.1 Inches |
| Display Type | Color LCD |
| Special Features | Fog-free screen, daylight visible display, customizable interface |
| Connectivity Technology | CAN bus |
| Power Consumption | 0.15 A (maximum) |
| Mounting Type | Dashboard Mount, Windshield Mount |

| Feature | Specification |
|---------------------------------------|--|
| Compatible Devices | NavNet TZtouch, TZtouch2, NavPilot 711C |
| Human-Interface Input | Touchscreen (if applicable to specific model variant), Buttons |
| Supported Satellite Navigation System | GPS |

8. WARRANTY AND SUPPORT

8.1 Warranty Information

Furuno products typically come with a standard manufacturer's warranty. For detailed information regarding the warranty period and terms for your FI70 unit, please refer to the warranty card included in your product packaging or visit the official Furuno website. Keep your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, troubleshooting, or service inquiries, please contact Furuno customer support. You can find contact information, including phone numbers and email addresses, on the official Furuno website (www.furunousa.com). When contacting support, please have your product model (FI70) and serial number ready.