Furuno SC702

Furuno SC702 Display Unit User Manual

Model: SC702 | Brand: Furuno

1. Introduction

The Furuno SC702 is the display unit component of the SC70/SC130 Satellite Compass system. This system utilizes advanced GNSS (Global Navigation Satellite System) technology, including GPS, Galileo, and GLONASS, to provide highly accurate navigation data. The SC702 display unit presents critical information such as heading, speed over ground (SOG), course over ground (COG), and rate of turn (ROT), essential for safe and precise vessel operation. This manual provides detailed instructions for the setup, operation, and maintenance of your SC702 display unit.

2. Components Overview

The SC70/SC130 Satellite Compass system typically includes the following main components:

- SC701 - Junction box for SC70/SC130
- SC702 - Display unit for SC70/SC130 (This manual's focus)
- SC703 - ANT 2GPS/ANG/ACCEL/MGNT SNSR (GPS Antenna)

Image 2.1: The Furuno SC702 Display Unit (top), the SC701 Junction Box (bottom left), and the SC703 GPS Antenna (bottom right). These components work together to provide accurate navigation data.

3. Setup and Installation

Proper installation is crucial for the optimal performance of your Furuno SC70/SC130 system. It is highly recommended that installation be performed by a qualified marine electronics technician.

3.1. Mounting the SC702 Display Unit

The SC702 display unit can be mounted on a dashboard or panel. Ensure the mounting location is secure, provides good visibility, and is protected from direct exposure to harsh weather conditions if not rated for such exposure. Allow sufficient space for cable connections at the rear of the unit.

3.2. Connecting Components

Connect the SC702 Display Unit, SC701 Junction Box, and SC703 GPS Antenna using appropriate cables (sold separately). The junction box acts as the central hub for power and data distribution. Refer to the detailed wiring diagrams provided in the full installation manual for specific connection points and cable types. Ensure all connections are secure and waterproofed as necessary.

3.3. Power Connection

Connect the system to a stable DC power source (typically 12-24V DC) via the SC701 Junction Box. Ensure proper fusing and circuit protection are in place according to marine electrical standards.

3.4. Initial Power-On and Configuration

After all components are connected, power on the system. The SC702 display will initiate. Follow the on-screen prompts for initial setup, including language selection, time zone, and basic navigation settings. Calibration of the compass may be required after installation to ensure maximum accuracy.

4. Operating Instructions

The SC702 display unit is designed for intuitive operation using its integrated buttons and clear display.

4.1. Display Overview

The main display screen provides real-time navigation data. Key indicators include:

- **SPD (Speed):** Displays the vessel's speed, typically Speed Over Ground (SOG).
- **HDG (Heading):** Shows the vessel's current heading in degrees, relative to true north.
- **ROT (Rate Of Turn):** Indicates how quickly the vessel is changing its heading, in degrees per minute.
- **COG (Course Over Ground):** Displays the actual direction of the vessel's movement over the ground.
- **FIX:** Indicates the GPS fix status (e.g., GP-3D for 3D GPS fix).
- **PDOP:** Position Dilution of Precision, an indicator of GPS accuracy. Lower values are better.
- **COM.SV:** Number of satellites in view.

4.2. Button Functions

The SC702 features several dedicated buttons for easy navigation and control:

- **BRILL:** Adjusts the display brightness. Press repeatedly to cycle through brightness levels.
- **DISP:** Cycles through different display screens or data views.
- **MENU/ESC:** Opens the main menu or acts as an escape/back button to exit current screens or cancel operations.
- **ACK:** Acknowledges alarms or messages.
- **LIST:** Accesses lists, such as waypoints, routes, or system logs.
- **ENT:** Enters or confirms a selection or input.
- **Navigation Buttons (Up, Down, Left, Right):** Used to navigate through menus, adjust settings, or move cursors on the screen.

4.3. Menu Navigation

Press the **MENU/ESC** button to access the main menu. Use the navigation buttons to scroll through menu options. Press **ENT** to select an option. Press **MENU/ESC** again to go back or exit the menu.

5. Maintenance

Regular maintenance ensures the longevity and reliable performance of your SC702 display unit and the entire satellite compass system.

5.1. Cleaning

Wipe the display screen and unit casing with a soft, damp cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the display or casing. Ensure the unit is powered off before cleaning.

5.2. Software Updates

Periodically check the Furuno website or consult with a Furuno dealer for available software updates. Updates can

provide performance enhancements, new features, or bug fixes. Follow the instructions provided with the update package carefully.

5.3. Cable and Connection Inspection

Regularly inspect all cables and connections for signs of wear, corrosion, or damage. Ensure all connections remain secure and waterproof, especially in a marine environment.

6. Troubleshooting

This section provides basic troubleshooting steps for common issues. For more complex problems, contact Furuno support or a certified service technician.

- **No Power:** Check power connections, fuses, and the vessel's power supply. Ensure the junction box is receiving power.
- **No GPS Fix/Inaccurate Data:** Ensure the GPS antenna has a clear view of the sky, free from obstructions. Check antenna cable connections. Verify the system's calibration.
- **Display Issues:** Adjust brightness using the BRILL button. If the screen is blank or distorted, power cycle the unit.
- **System Alarms:** Refer to the full system manual for specific alarm codes and their meanings. Press ACK to acknowledge alarms.

7. Specifications

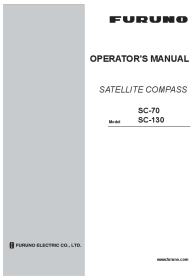
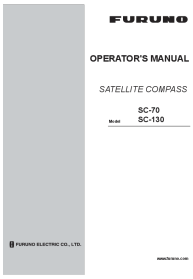
Feature	Specification
Item Weight	26.3 pounds
Package Dimensions	17 x 15 x 7 inches
Voice Command	Buttons
ASIN	B07PWH7647
Date First Available	March 21, 2019
Manufacturer	Furuno
Brand	Furuno
Vehicle Service Type	Boat
Special Feature	SBAS Compatibility, IMO Type-approved
Connectivity Technology	Ethernet
Map Type	North America, Satellite
Included Components	Junction box, Display unit, GPS antenna
Mounting Type	Dashboard Mount, Panel Mount
Touch Screen Type	Resistive

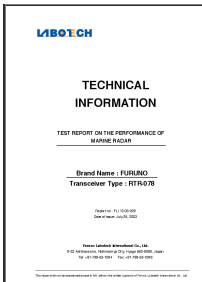
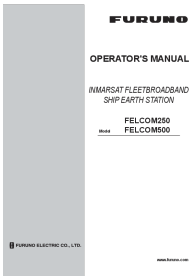
Feature	Specification
Human Interface Input	Buttons

8. Warranty and Support

Furuno stands behind its products. For any technical assistance or inquiries, expert advice is available. In the event of damaged or defective items, return shipping will be covered by the seller. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the official Furuno warranty documentation or contact Furuno customer service.
For further support, visit the official Furuno USA website or contact your authorized Furuno dealer.

Related Documents - SC702

	FURUNO SC-70/SC-130 Satellite Compass Operator's Manual Operator's manual for FURUNO SC-70 and SC-130 Satellite Compass, covering installation, operation, maintenance, safety, and troubleshooting for marine navigation systems.
	FURUNO SC-70/SC-130 Satellite Compass Operator's Manual This comprehensive manual provides detailed instructions for the installation, operation, and maintenance of the FURUNO SC-70 and SC-130 Satellite Compass systems. Discover advanced GPS kinematic technology for reliable marine navigation.
	FURUNO SCX-21 Satellite Compass Operator's Manual Operator's manual for the FURUNO SCX-21 Satellite Compass, detailing installation, operation, settings, and maintenance for marine navigation. Includes technical specifications and troubleshooting.

	[FURUNO RTR-078 Marine Radar Test Report & Technical Specifications] This technical test report by Furuno Labotech International details the performance and specifications of the FURUNO RTR-078 Marine Radar system, covering RF output, emissions, stability, and operational features for maritime navigation.
	[FURUNO FELCOM250/500 Operator's Manual: Inmarsat Fleetbroadband Ship Earth Station Guide] Comprehensive operator's manual for the FURUNO FELCOM250 and FELCOM500 Inmarsat Fleetbroadband Ship Earth Stations. Learn about system configuration, basic operations, handset functions, SMS, web software, maintenance, and troubleshooting.
	[Furuno VR-7000 Voyage Data Recorder EC Type Examination Certificate] This document certifies that the Furuno VR-7000 Voyage Data Recorder (VDR) complies with EU Directive 2014/90/EU on marine equipment. It details the product description, components, application limitations, and extensive type examination documentation.