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Garmin 010-02591-51

Garmin ECHOMAP UHD2 54CV Chartplotter/Fishfinder User Manual

Model: 010-02591-51

1. Introduction

The Garmin ECHOMAP UHD2 54CV is a versatile chartplotter and fishfinder combo designed to enhance your marine navigation and fishing experience. Featuring a bright 5-inch keyed display, this device provides clear and crisp sonar views, detailed mapping, and wireless connectivity for seamless information sharing.
This manual provides essential information for setting up, operating, and maintaining your ECHOMAP UHD2 54CV to ensure optimal performance and longevity.

2. Product Overview



Figure 2.1: Garmin ECHOMAP UHD2 54CV Chartplotter/Fishfinder unit with the GT20-TM transducer shown below.

Key Features:

- Bright 5-inch keyed display for convenient operation.
- Garmin CHIRP traditional and ClearVü scanning sonars for detailed underwater views.
- High-contrast vivid color palettes for enhanced target and structure distinction.
- Wi-Fi connectivity for wireless information sharing between compatible chartplotters.
- Preloaded LakeVü g3 inland maps and BlueChart g3 coastal charts with Navionics data.
- Support for Garmin Navionics+ and Garmin Navionics Vision+ marine cartography.
- ActiveCaptain™ app integration for OneChart™ access, software updates, and Quickdraw™ Community data.

3. Setup and Installation

3.1. Unpacking the Box:

Verify that all components are present in the packaging:

- ECHOMAP UHD2 54cv Unit
- GT20-TM Transducer
- Power/Data Cable
- Tilt Mount
- Flush Mount
- Mounting Hardware
- Documentation (this manual)

3.2. Mounting Options:

The ECHOMAP UHD2 54CV offers two primary mounting options:

- **Tilt Mount:** Allows for adjustable viewing angles. Secure the tilt mount base to a flat surface using the provided hardware.
- **Flush Mount:** Provides a sleek, integrated look by recessing the unit into the dashboard or console. Follow the template provided in the full documentation for precise cutting and mounting.

3.3. Transducer Installation:

The GT20-TM transducer is crucial for sonar functionality. Install the transducer according to the detailed instructions in the full product documentation, ensuring it has a clear view of the water and is securely fastened to avoid damage or signal interference. Connect the transducer to the 4-Pin Transducer Port on the ECHOMAP UHD2 unit.

3.4. Power and Data Connection:

Connect the power/data cable to the ECHOMAP UHD2 unit and to a 12V DC power source on your vessel. Ensure proper polarity and fuse protection. The unit also supports connection to a Garmin Wi-Fi Network for local data sharing.

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4. Operating Instructions

The ECHOMAP UHD2 54CV features an intuitive keyed interface for easy navigation through menus and functions.

4.1. Powering On/Off:

- Press and hold the **POWER** button to turn the unit on or off.
- A short press of the **POWER** button will bring up the backlight and brightness settings.

4.2. Navigating Menus:

- Use the **ARROW** keys (Up, Down, Left, Right) to highlight menu options.
- Press **SELECT** to confirm a selection.
- Press **BACK** to return to the previous screen or menu.
- Press **HOME** to return to the main home screen.

4.3. Chartplotter Functions:

Access the chart screen from the home menu. The chartplotter displays your current GPS speed, heading, and position. It also charts your course, allowing you to save important waypoints and routes. This feature is particularly useful for navigating familiar

waters or returning to specific fishing spots, especially during low visibility conditions.

4.4. Sonar and Fishfinder:

The ECHOMAP UHD2 54CV provides detailed sonar views, including traditional CHIRP and ClearVü scanning sonars. These technologies offer clear distinction of targets and structures underwater, aiding in fish detection and understanding bottom contours. The display shows real-time depth readings, which is essential for safe navigation and anchoring.

4.5. Wireless Connectivity (Wi-Fi & ActiveCaptain App):

Utilize the built-in Wi-Fi to connect your ECHOMAP UHD2 to other compatible Garmin chartplotters on your boat to share sonar data, waypoints, and routes. For enhanced functionality, pair your device with the free ActiveCaptain app on your smartphone. This app provides access to OneChart for purchasing and downloading new maps, software updates, and the Garmin Quickdraw Community for sharing and downloading user-generated contour maps.

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5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your ECHOMAP UHD2 54CV.

- **Cleaning:** Clean the display and unit exterior with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the screen or casing.
- **Connections:** Periodically check all cable connections (power, transducer) for corrosion or looseness. Apply marine-grade dielectric grease to electrical connections to prevent corrosion.
- **Software Updates:** Regularly check for and install software updates via the ActiveCaptain app or Garmin's website. Updates often include performance improvements, new features, and bug fixes.
- **Storage:** When not in use for extended periods, store the unit in a dry, temperature-controlled environment. If removing the unit from the boat, ensure all ports are covered to prevent moisture ingress.
- **Transducer Care:** Keep the transducer face clean and free of marine growth. Inspect the transducer cable for any nicks or damage.

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6. Troubleshooting

If you encounter issues with your ECHOMAP UHD2 54CV, refer to the following common troubleshooting steps:

Problem	Possible Solution
Unit does not power on.	Check power cable connections, fuse, and battery voltage. Ensure the power button is pressed and held sufficiently.
No sonar readings or poor image.	Verify transducer connection. Ensure transducer is clean and submerged. Check sonar settings (gain, frequency). Avoid interference from other electronic devices.
GPS signal lost or inaccurate.	Ensure the unit has a clear view of the sky. Move away from tall structures or other electronic interference. Allow time for the unit to acquire satellites.
Wi-Fi connectivity issues.	Ensure Wi-Fi is enabled on both the ECHOMAP unit and your mobile device. Restart both devices. Check network settings.

For more detailed troubleshooting or issues not listed here, please consult the comprehensive user manual available on the Garmin support website or contact Garmin customer support.

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7. Specifications

Feature	Detail
Brand	Garmin
Model Name	010-02591-51
Screen Size	5 Inches
Display Type	WVGA, IPS
Product Dimensions (LxWxH)	7.4" x 4.8" x 2.4"
Item Weight	16 ounces
Power Source	DC Power Supply
Mounting Type	Flush Mount or Bail Mount
Transducer Included	GT20-TM

8. Warranty and Support

8.1. Warranty Information:

This Garmin ECHOMAP UHD2 54CV Chartplotter/Fishfinder is covered by a standard manufacturer's warranty. Please refer to the official documentation included in your product packaging or visit the Garmin website for complete warranty terms and conditions.

8.2. Customer Support:

For technical assistance, product registration, or additional support, please visit the official Garmin support website or contact their customer service department. Contact information can typically be found in your product documentation or on the Garmin website.
Garmin Website: www.garmin.com/support

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