Garmin GPSMAP 1022 LiveScope & LVS34 Transducer

Garmin GPSMAP 1022 LiveScope Plus Bundle with LVS34 Transducer Instruction Manual

Your guide to setting up, operating, and maintaining your advanced marine navigation system.

1. INTRODUCTION

The Garmin GPSMAP 1022 LiveScope Plus Bundle with LVS34 Transducer is a comprehensive marine navigation and sonar system designed to enhance your fishing and boating experience. This bundle includes the GPSMAP 1022 chartplotter, the LVS34 LiveScope Plus transducer, and the GLS 10 sonar black box. This manual provides essential information for the proper installation, operation, and maintenance of your device.

Figure 1.1: The Garmin GPSMAP 1022 LiveScope Plus Bundle components. This image displays the GPSMAP 1022 chartplotter unit, the LVS34 LiveScope Plus transducer, and the GLS 10 sonar black box, illustrating the complete system.

2. SAFETY INFORMATION

WARNING: Failure to heed the following warnings could result in an accident, leading to death or serious injury.

- Always operate your vessel safely. Avoid navigational hazards and never allow the unit to distract you from operating your vessel safely.

- This device should be used only as a navigational aid and should not be used for any purpose requiring precise measurement of direction, distance, location, or topography.

- To avoid possible injury, always wear safety glasses, ear protection, and a dust mask when drilling or cutting.

- When connecting the power cable, do not remove the in-line fuse holder. This is necessary to protect the device from damage.

3. WHAT'S IN THE BOX

Verify that all components are present in your package:

- Garmin GPSMAP 1022 chartplotter
- LVS34 Transducer
- GLS 10 Sonar Black Box
- Keypad interface
- Multifunction control knob
- Networking capabilities (cables and connectors)
- Power cable
- Mounting hardware
- Documentation

Figure 3.1: The LVS34 Transducer and GLS 10 Sonar Black Box. This image shows the LVS34 transducer unit and the GLS 10 sonar module, which are key components for LiveScope functionality.

4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. It is recommended to have this system installed by a qualified marine electronics technician.

4.1 Mounting the GPSMAP 1022 Chartplotter

The GPSMAP 1022 unit can be flush-mounted or bail-mounted. Choose a location that provides optimal viewing and access to the keypad, away from heat sources and excessive vibration.

1. **Bail Mount:** Secure the bail mount bracket to a flat surface using the provided hardware. Attach the chartplotter to the bail mount.
2. **Flush Mount:** Cut a template (available from Garmin) to mark the mounting hole. Drill pilot holes and secure the unit using the flush mount hardware.

4.2 Installing the LVS34 Transducer

The LVS34 transducer can be mounted on a trolling motor, transom, or through-hull. The most common installation for LiveScope is on a trolling motor for optimal real-time viewing.

1. **Trolling Motor Mount:** Attach the transducer to the shaft of your trolling motor using the provided bracket and hose clamps. Ensure the transducer is oriented correctly for forward or down views.
2. **Transom Mount:** Select a location on the transom where the transducer will be fully submerged and free from obstructions. Drill pilot holes and secure the bracket.

Figure 4.1: Detailed view of the LVS34 LiveScope Plus Transducer. This image provides a close-up of the LVS34 transducer, highlighting its design and connection point.

Figure 4.2: LVS34 Transducer mounted on a trolling motor. This image demonstrates a common installation method for the LVS34 transducer, showing it attached to a trolling motor shaft for optimal underwater scanning.

4.3 Connecting the GLS 10 Sonar Black Box

The GLS 10 black box processes the sonar data from the LVS34 transducer and sends it to the GPSMAP 1022

chartplotter via the Garmin Marine Network.

1. Connect the LVS34 transducer cable to the "Transducer" port on the GLS 10 black box.
2. Connect the GLS 10 black box to the GPSMAP 1022 chartplotter using a Garmin Marine Network cable.
3. Connect the power cable from the GLS 10 black box to a 10-32 Vdc power source on your vessel. Ensure proper fusing.

4.4 Power Connections

Connect the power cable for the GPSMAP 1022 chartplotter to a 10-32 Vdc power source. Ensure the in-line fuse is properly installed and rated for the device.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- **To Power On:** Press and hold the **POWER** button located on the front panel until the Garmin logo appears.
- **To Power Off:** Press and hold the **POWER** button until the power options menu appears, then select "Power Off".

5.2 Keypad and Control Knob

The GPSMAP 1022 features a dedicated keypad and a multifunction control knob for intuitive operation.

- **Keypad:** Use the dedicated buttons for quick access to common functions like **HOME**, **MENU**, **BACK**, **MARK**, and directional arrows.
- **Control Knob:** Rotate the knob to scroll through menus or zoom in/out on charts. Press the knob to select an item or confirm an action.

5.3 Chartplotter Functions

Access detailed marine charts, create waypoints, set routes, and navigate with precision.

- **Viewing Charts:** From the Home screen, select **Charts**. Use the control knob to zoom and the directional arrows to pan.
- **Creating Waypoints:** Press the **MARK** button to save your current location as a waypoint.
- **Navigation:** Select a waypoint or route and choose **Go To** to begin navigation.

5.4 LiveScope Sonar Operation

The LiveScope Plus system provides real-time, high-resolution sonar images of fish and structure below and around your boat.

- **Accessing LiveScope:** From the Home screen, select **Sonar**, then choose **LiveScope**.
- **Sonar Modes:** The LVS34 transducer supports Forward, Down, and Perspective modes. Adjust the transducer orientation to switch between modes.
- **Adjusting Settings:** Use the **MENU** button to access LiveScope settings such as Gain, Range, and Color Palette for optimal viewing.

5.5 Connectivity (Wi-Fi and Bluetooth)

The GPSMAP 1022 supports Wi-Fi and Bluetooth for enhanced connectivity.

- **Wi-Fi:** Connect to the ActiveCaptain app on your mobile device for chart updates, smart notifications, and more.

- **Bluetooth:** Pair with compatible devices for features like software updates and remote control.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Garmin system.

- **Cleaning the Display:** Use a soft, clean, lint-free cloth and a mild glass cleaner. Avoid abrasive cleaners or solvents.
- **Cleaning the Transducer:** Periodically inspect the transducer for marine growth or debris. Clean with a soft cloth and fresh water. Avoid harsh chemicals.
- **Software Updates:** Regularly check for and install software updates using the ActiveCaptain app or Garmin Express to ensure you have the latest features and performance enhancements.
- **Cable Inspection:** Periodically inspect all cables and connections for signs of wear, corrosion, or damage.

7. Troubleshooting

If you encounter issues with your device, refer to the following common problems and solutions:

Problem	Possible Solution
Device does not power on.	Check power cable connections, fuse, and battery voltage. Ensure the power button is pressed and held sufficiently.
No sonar image.	Verify transducer connection to the GLS 10 black box. Ensure GLS 10 is powered and connected to the chartplotter via the network cable. Check transducer for obstructions.
GPS signal lost or inaccurate.	Ensure the device has a clear view of the sky. Move away from tall structures or other electronics that may cause interference.
Screen is dim or unreadable.	Adjust the backlight settings in the system menu. Ensure the screen is clean and free from glare.

For more detailed troubleshooting or persistent issues, contact Garmin Product Support.

8. Specifications

Feature	Detail
Item Model Number	GPSMAP 1022 LiveScope & LVS34 Transducer
Display Size	6.5 Inches
Resolution	1280 x 800 pixels
Connectivity Technology	Wi-Fi, Bluetooth
Special Feature	Bluetooth
Map Type	Nautical
Mounting Type	Dashboard Mount (Bail or Flush)
Vehicle Service Type	Boat

Feature	Detail
Item Weight	22.8 pounds (total package)
Package Dimensions	20.25 x 16.55 x 14.5 inches

Note: Specifications are subject to change without notice.

9. WARRANTY AND SUPPORT

Garmin products are warranted to be free from defects in materials or workmanship for one year from the date of purchase. Within this period, Garmin will, at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost.

For full warranty terms and conditions, or to obtain support, please visit the official Garmin website or contact Garmin Product Support directly. You can find contact information and frequently asked questions at garmin.com/support.