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Garmin 010-02316-10

Garmin GPS 24xd GPS Antenna with Heading Sensor

Model: 010-02316-10

Introduction

This user manual provides essential information for the installation, operation, and maintenance of your Garmin GPS 24xd GPS Antenna with Heading Sensor. The GPS 24xd is designed to provide precise location data using multi-band GNSS and accurate heading information, even at low speeds, making it ideal for marine navigation systems utilizing NMEA 2000.

Package Contents

Upon opening the package, verify that all components are present. The standard package includes:

- Garmin GPS 24xd Antenna Unit
- Mounting Hardware (e.g., pole mount, surface mount)
- NMEA 2000 Drop Cable
- NMEA 2000 T-connector
- Documentation (this manual, warranty information)



Figure 1: Overview of the Garmin GPS 24xd GPS Antenna with Heading Sensor and its included components. This image displays the white dome-shaped antenna unit, a white mounting bracket, a black coiled NMEA 2000 cable with connectors, and a black NMEA 2000 T-connector.

Setup

Mounting Considerations

Proper mounting of the GPS 24xd is crucial for optimal performance. Choose a location with a clear, unobstructed view of the sky in all directions. Avoid mounting near large metal objects, other antennas, or radar, which can interfere with GPS and heading signals.

- **Surface Mount:** Use the provided hardware to secure the antenna directly to a flat surface.
- **Pole Mount:** If using a pole mount (sold separately or included with specific kits), ensure the pole is stable and free from vibration.

NMEA 2000 Network Connection

The GPS 24xd connects to your vessel's NMEA 2000 network. Ensure your network is properly terminated and powered. Connect the supplied NMEA 2000 drop cable from the GPS 24xd to an available T-connector on your NMEA 2000 backbone.

1. Ensure the NMEA 2000 network is powered off before making connections.
2. Connect the NMEA 2000 drop cable from the GPS 24xd to the T-connector.
3. Secure all connections firmly to prevent water ingress and ensure reliable data transfer.
4. Power on the NMEA 2000 network and connected devices.

Operating

Once properly installed and connected to an NMEA 2000 network, the Garmin GPS 24xd will automatically begin acquiring satellite signals and providing position and heading data to compatible devices on the network.

- **Position Accuracy:** The multi-band GNSS receiver enhances position accuracy, reducing typical GPS error margins.
- **Heading Data:** The integrated heading sensor provides accurate course over ground (COG) and true heading information, even at very low speeds, which is beneficial for radar overlay and autopilot systems.
- **Status Indicator:** Refer to the LED indicator on the device (if present) or the status display on your connected Garmin chartplotter/MFD for signal acquisition status.

Maintenance

The Garmin GPS 24xd is designed for marine environments and requires minimal maintenance.

- **Cleaning:** Periodically clean the exterior of the antenna unit with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Cable Inspection:** Regularly inspect the NMEA 2000 cable and connections for any signs of wear, corrosion, or damage. Ensure all connections remain watertight.
- **Firmware Updates:** Garmin may release firmware updates to improve performance or add new features. Check the Garmin website or use your compatible Garmin chartplotter/MFD to update the device firmware as recommended.

Troubleshooting

If you experience issues with your GPS 24xd, try the following troubleshooting steps:

Problem	Possible Cause	Solution
No GPS signal or inaccurate position	Obstructed view of sky, faulty connection, interference.	Ensure clear sky view. Check NMEA 2000 connections. Relocate antenna if interference is suspected.
Incorrect or no heading data	Antenna not level, magnetic interference, faulty unit.	Verify antenna is mounted level. Check for nearby magnetic objects. Perform a compass calibration if available through your MFD.
Device not recognized on NMEA 2000 network	Improper connection, network power issue, faulty T-connector.	Check all NMEA 2000 connections. Verify network power. Test with a different T-connector if possible.

If problems persist after attempting these steps, contact Garmin Product Support for further assistance.

Specifications

Feature	Detail
Brand	Garmin
Model Number	010-02316-10
ASIN	B0913K114J
Antenna Type	Satellite (GPS/GNSS)

Feature	Detail
Color	White, Black
Number of Channels	1
Impedance	12 Ohm
Maximum Range	1 Meters (likely refers to cable length or specific measurement, not operational range)
Connectivity	NMEA 2000
UPC	795044514476

Warranty Information

The Garmin GPS 24xd GPS Antenna with Heading Sensor is covered by Garmin's standard limited warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the warranty card included with your product or visit the official Garmin website.
Keep your original purchase receipt as proof of purchase for warranty claims.

Support

For technical support, product registration, or additional information, please visit the official Garmin support website:

support.garmin.com

You can also find FAQs, software updates, and contact information for customer service on their website.

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