Raymarine Axiom 2 Pro 12 RVM

Raymarine Axiom 2 Pro 12 RVM Chartplotter/Fishfinder User Manual

Model: Axiom 2 Pro 12 RVM

Box   Setup   Operating   Introduction   Safety   What's in the   Maintenance   Troubleshooting   Specifications   Warranty & Support

1. INTRODUCTION

The Raymarine Axiom 2 Pro 12 RVM is a powerful all-in-one navigation system designed for marine environments. It integrates chartplotter, sonar, radar, autopilot, and video functionalities. This device features a fast 6-core processor and the intuitive LightHouse operating system, providing a seamless user experience. The HybridTouch™ interface combines touchscreen control with a physical keypad for versatile operation. Built-in RealVision MAX CHIRP and dual-channel 1kW CHIRP sonar enhance fish-finding capabilities with improved range, resolution, and target identification.

This manual provides essential information for the proper setup, operation, and maintenance of your Axiom 2 Pro 12 RVM unit. Please read it thoroughly before using the device.

2. SAFETY INFORMATION

WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Always operate your vessel safely. Use this device as a navigational aid only. Do not rely solely on this device for navigation. Ensure all connections are secure and waterproof. Disconnect power before performing any maintenance or installation procedures. Consult a qualified marine electronics technician for complex installations.

3. WHAT'S IN THE BOX?

Upon unpacking your Raymarine Axiom 2 Pro 12 RVM, verify that all the following components are present:

- Display unit
- User Configurable Keypad
- Suncover

- Gasket
- Trunnion knobs (x 2)
- Trunnion bracket (Axiom 2 Pro 9 and 12 Only)
- Optional grounding connection (Screw (M3x5), Spring washer (M3), Crimp terminal (M3))
- DeviceNet to SeaTalkng adaptor cable 1m (3.28 ft)
- RayNet (Female) to RayNet (Female) network cable 2 m (6.56 ft)
- Mounting fixings

Image: The Raymarine Axiom 2 Pro 12 RVM display unit shown with its various included cables, mounting hardware, and suncover. This image illustrates the complete package contents.

4. SETUP AND INSTALLATION

The Axiom 2 Pro 12 RVM offers flexible installation options, including Dashboard Mount and Panel Mount. Detailed instructions for each mounting type are provided in the separate installation guide. Ensure the mounting location is secure, provides adequate ventilation, and is protected from direct exposure to extreme elements where possible.

4.1 Power Connection

Connect the power cable to a suitable 12V DC power source on your vessel. Ensure the connection is fused correctly and waterproofed to prevent corrosion and electrical issues.

4.2 Network Connections

The unit supports various network connections:

- **RayNet:** Use the provided RayNet cable to connect to other Raymarine devices such as radar, external sonar modules, or additional Axiom displays.
- **SeaTalkng/NMEA 2000:** Use the DeviceNet to SeaTalkng adaptor cable to integrate with your vessel's NMEA 2000 network for data sharing with compatible devices.
- **Wi-Fi:** The unit features Wi-Fi connectivity for software updates, mobile app integration, and streaming services.

4.3 Transducer Connection (If applicable)

Although this specific model is sold without a transducer, if you are connecting a compatible RealVision MAX or 1kW CHIRP transducer, ensure it is properly installed and connected to the RVM port on the display unit. Refer to your transducer's installation guide for specific instructions.

5. OPERATING INSTRUCTIONS

The Axiom 2 Pro 12 RVM operates on the LightHouse operating system, offering a user-friendly interface.

5.1 Powering On/Off

Press and hold the Power button (usually located on the front or side bezel) for approximately 3 seconds to power the unit on or off. A short press will bring up the power menu for quick actions.

5.2 HybridTouch™ Control

The unit combines a responsive touchscreen with physical buttons and an interchangeable autopilot keypad or user-programmable soft keys. You can navigate menus, zoom, and control functions using either the touchscreen or the physical controls, depending on your preference and sea conditions.

5.3 Display Brightness

The Axiom 2 Pro features smart backlighting and an ambient light sensor that automatically adjusts display brightness for optimal visibility in various lighting conditions (day and evening). Manual adjustment options are available through the system settings.

5.4 Sonar Functions (RealVision MAX)

With built-in RealVision MAX CHIRP, the unit provides advanced fish-finding capabilities:

- **DownVision:** Provides a photo-like view of the underwater world directly below your boat.
- **SideVision:** Offers a wide, side-to-side view of the bottom structure and fish targets.
- **3D Sonar:** Creates a three-dimensional representation of the underwater environment, allowing for detailed exploration.

Access sonar views from the main menu. Adjust gain, range, and frequency settings as needed for optimal performance.

5.5 Chartplotter Navigation

The Axiom 2 Pro supports Navionics/C-Map cartography. Use the chart application to plan routes, mark waypoints, and navigate. The fast 6-core processor ensures smooth chart redraws and quick response times.

5.6 System Expansion

You can create a comprehensive marine system by networking multiple Axiom displays and connecting to radar, autopilot, and other compatible devices. The unit also supports streaming apps and offers HDMI and audio output for remote displays and marine entertainment systems.

6. MAINTENANCE

6.1 Cleaning the Display

The HydroTough™ nano-coating repels water for reliable touchscreen control and superior sunlight visibility. To clean the display, gently wipe it with a clean, damp, soft cloth. For stubborn marks, use a mild glass cleaner applied to the cloth (not directly to the screen). Avoid abrasive cleaners or solvents.

6.2 Software Updates

Periodically check for software updates via Wi-Fi or by downloading from the Raymarine website to a microSD card. Keeping your software updated ensures optimal performance and access to new features.

6.3 Connection Checks

Regularly inspect all power and network connections for signs of corrosion or damage. Ensure all cables are securely fastened and waterproofed.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

7.1 Unit Does Not Power On

- Check the power cable connection to the unit and the vessel's power source.
- Verify the vessel's battery voltage and ensure the fuse for the unit is not blown.
- Ensure the power button is pressed and held for the required duration (approx. 3 seconds).

7.2 No Sonar Image

- Confirm that a compatible transducer is correctly connected to the RVM port.
- Check transducer cable for damage.
- Ensure sonar is enabled in the system settings.
- Verify that the vessel is in water deep enough for sonar operation.

7.3 GPS Position Not Acquired

- Ensure the unit has a clear view of the sky.
- Check for any obstructions that might block the GPS signal.
- Verify GPS settings in the system menu.

7.4 Touchscreen Unresponsive

- Clean the screen to remove any water, salt, or debris.

- If the issue persists, try using the physical keypad for control.
- Perform a soft reset (refer to the full user manual for instructions).

For more detailed troubleshooting, refer to the comprehensive Raymarine Axiom 2 Pro user manual available on the Raymarine website or contact Raymarine customer support.

8. SPECIFICATIONS

Feature	Detail
Display Type	LCD
Touch Screen Type	Capacitive
Mounting Type	Dashboard Mount, Panel Mount
Included Components	Trunnion Bracket, Trunnion Knobs, Power/Video/Audio Cable, RayNet Network Cable, DeviceNet to SeaTalkng Adaptor Cable
Map Type	Navigation, Marine
Connectivity Technology	Wi-Fi
Special Feature	Lane Assist *(Note: This feature is typically for automotive GPS, may refer to advanced navigation aids in marine context)*
Screen Size	12 Inches
Vehicle Service Type	Boat
Brand	Raymarine
Date First Available	July 21, 2023
Voice Command	Keypad, Touchscreen
Item Weight	15.45 pounds
Product Dimensions	1 x 1 x 1 inches *(Note: These dimensions seem generic, refer to official product documentation for precise measurements)*

9. WARRANTY AND SUPPORT

Raymarine products are covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Raymarine website. Keep your proof of purchase for warranty claims.

For technical support, product registration, or to find authorized service centers, please visit the Raymarine support section on their official website. You can also contact their customer service team directly for assistance.