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## Raymarine E62186-US

# Raymarine A50D 5-Inch Marine GPS Chartplotter and Fishfinder User Manual

Model: E62186-US

## 1. INTRODUCTION

The Raymarine A50D is a compact, waterproof marine GPS chartplotter and fishfinder designed for reliable navigation and fish detection. This unit features a 5-inch sunlight-viewable display, an integrated 12-channel GPS receiver with WAAS, and a powerful 500-watt HD Digital fishfinder. It comes preloaded with Navionics US Coastal charts, offering comprehensive mapping for coastal waters.

## 2. KEY FEATURES

- 5-inch high-resolution VGA (640x480) LCD display, sunlight viewable.
- Integrated 500 Watt HD Digital Fishfinder for superior fish detection and bottom discrimination.
- Built-in 12 Channel GPS Receiver with WAAS for accurate positioning.
- Preloaded with Navionics US Coastal charts, with upgrade options for Navionics Gold or Platinum.
- Fully waterproof enclosure for marine environments.
- Tilt swivel mount with cable management and quick release for easy installation and removal.
- Includes a dual frequency 50/200 kHz transom mount transducer for depth, speed, and temperature readings.

## 3. SETUP AND INSTALLATION

### 3.1 Unboxing and Inspection

Carefully unpack all components and verify that all items listed in the packing contents are present and undamaged. Contact your dealer immediately if any items are missing or damaged.

### 3.2 Mounting the Display Unit

The A50D unit is designed for bracket mounting using the supplied tilt swivel mount. This mount allows for flexible positioning and easy removal. Ensure the mounting location provides clear visibility, is protected from

excessive vibration, and allows for proper cable routing.

- Secure the mounting bracket to a flat surface using appropriate fasteners.
- Attach the A50D display unit to the bracket. The quick-release mechanism allows for easy attachment and detachment.
- Adjust the tilt and swivel to achieve the optimal viewing angle.

### 3.3 Power and Transducer Connections

Connect the power cable to a 12V DC power source, ensuring correct polarity. Connect the transducer cable to the designated port on the A50D unit. Ensure all connections are secure and waterproof.

**Note:** Professional installation is recommended for transducer placement to optimize fishfinder performance.

## 4. OPERATING INSTRUCTIONS

The Raymarine A50D features an intuitive button layout for easy operation. Refer to the image below for button identification.



**Figure 1:** Raymarine A50D unit showing the display, control buttons, and mounting bracket. The screen displays both chartplotter and fishfinder data simultaneously. Key controls include a directional pad with an 'OK' button, 'CANCEL', 'OUT/IN RANGE', 'WPTS/MOB', 'ACTIVE', 'PAGE/MENU', and dedicated soft keys below the screen for 'FISHERFINDER SETTINGS', 'ZOOM', 'BOTTOM LOCK', 'A-SCOPE', and 'PRESENTATION'. A red power button is located at the bottom right.

### 4.1 Power On/Off

To power on the unit, press and hold the **red power button** located at the bottom right of the control panel until the Raymarine logo appears. To power off, press and hold the same button until the shutdown prompt appears, then confirm.

## 4.2 Basic Navigation and Menu Access

- **Directional Pad and OK Button:** Use the circular directional pad (up, down, left, right arrows) to navigate through menus, move the cursor on the chart, or adjust settings. Press the central **OK** button to confirm selections or open context menus.
- **CANCEL Button:** Press **CANCEL** to exit a menu, close a dialog box, or return to the previous screen.
- **PAGE/MENU Button:** Press **PAGE/MENU** to cycle through available display pages (e.g., Chart, Fishfinder, Combo) or to access the main system menu.

## 4.3 Chartplotter Functions

- **Viewing Charts:** Select the Chart page using the **PAGE/MENU** button. The screen will display your current position on the preloaded Navionics charts.
- **Zooming:** Use the **OUT** and **IN RANGE** buttons to adjust the chart's zoom level.
- **Waypoints and MOB:** Press **WPTS/MOB** to mark your current position as a waypoint or to activate a Man Overboard (MOB) function, which creates a waypoint at the MOB location and initiates navigation to it.

## 4.4 Fishfinder Functions

- **Viewing Sonar:** Select the Fishfinder page or a Combo page that includes sonar using the **PAGE/MENU** button. The screen will display real-time sonar returns.
- **Adjusting Settings:** Use the soft keys below the screen to access specific fishfinder settings:
  - **FISHPINDER SETTINGS:** Access advanced sonar configuration options.
  - **ZOOM:** Magnify a specific depth range.
  - **BOTTOM LOCK:** Stabilizes the bottom display, useful for fishing over structure.
  - **A-SCOPE:** Provides a real-time display of sonar returns directly under the boat.
  - **PRESENTATION:** Adjust color palettes and display modes.
- **Gain Control:** The unit often features an automatic gain setting (e.g., "Gain: Auto High" as seen in Figure 1). Manual adjustment may be available through the Fishfinder Settings menu to optimize sensitivity for different water conditions.

## 5. MAINTENANCE

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- **Cleaning:** Clean the display and unit casing with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the screen or housing.
- **Connections:** Periodically check all cable connections (power, transducer) for corrosion or damage. Ensure they are securely fastened.
- **Software Updates:** Check the Raymarine website for available software updates to ensure optimal performance and access to new features. Follow the instructions provided by Raymarine for any update procedures.
- **Storage:** When not in use for extended periods, especially in harsh conditions, consider removing the unit from its mount and storing it in a dry, protected environment.

## 6. TROUBLESHOOTING

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- **Unit Does Not Power On:**
  - Check power cable connections at both the unit and the power source.
  - Verify the power source (e.g., boat battery) is charged and supplying 12V DC.

- Inspect the fuse in the power cable or boat's electrical system.
- **No GPS Position / Poor Accuracy:**
  - Ensure the unit has a clear view of the sky, unobstructed by metal structures or other electronics.
  - Allow sufficient time for the GPS receiver to acquire satellites (cold start may take longer).
  - Check for any external GPS antenna connections if applicable.
- **No Sonar Data / Incorrect Depth Readings:**
  - Verify the transducer cable is securely connected to the A50D unit.
  - Ensure the transducer is properly installed in the water and free from marine growth or obstructions.
  - Check transducer settings in the Fishfinder menu (e.g., frequency, gain).
- **Screen Freezes or Malfunctions:**
  - Try performing a soft reset by powering the unit off and then on again.
  - If the issue persists, consult the Raymarine support website for advanced troubleshooting or factory reset procedures.

## 7. SPECIFICATIONS

Feature	Specification
Model Number	E62186-US
Screen Size	5 Inches
Display Type	LCD, VGA (640x480)
GPS Receiver	Built-in 12 Channel with WAAS
Fishfinder Power	500 Watt HD Digital
Transducer Frequencies	50/200 kHz (dual frequency)
Preloaded Charts	Navionics US Coastal Charts
Waterproof Rating	Fully waterproof enclosure
Product Dimensions	15 x 12 x 5 inches
Item Weight	7.4 Pounds
UPC	091975001321

## 8. WARRANTY AND SUPPORT

For detailed warranty information, product registration, and technical support, please visit the official Raymarine website or contact your authorized Raymarine dealer. Keep your purchase receipt as proof of purchase for warranty claims.