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## Garmin GT23M-TM

# Garmin GT23M-TM Transducer User Manual

Model: GT23M-TM | Brand: Garmin

Introduction Features Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

## 1. Introduction

The Garmin GT23M-TM Transducer is designed for coastal and offshore anglers requiring advanced sonar capabilities. This transom-mount transducer provides both CHIRP traditional sonar and CHIRP ClearVü scanning sonar for detailed underwater imaging.



Figure 1: Garmin GT23M-TM Transducer

The transducer consistently displays clear fish arches with superior target separation and provides clear definition of underwater structures. It is engineered to deliver precise depth measurements even at high speeds.

## 2. Key Features

- **Dual Sonar Technology:** Integrates CHIRP traditional sonar and CHIRP ClearVü scanning sonar.
- **Mid-Band CHIRP:** Operates at 80-160 kHz for traditional sonar, with a power rating of 600 W.
- **CHIRP ClearVü:** Operates at 260/455 kHz for scanning sonar, with a power rating of 500 W.
- **Transom Mount Design:** Optimized for easy installation on the boat's transom.
- **Accurate Readings:** Provides precise depth and target information, even at high boat speeds.
- **8-Pin Connector:** Ensures reliable connection to compatible Garmin echo sounder units.

## 3. Setup and Installation

Proper installation of the GT23M-TM transducer is crucial for optimal performance. Always refer to the detailed installation instructions included in the product packaging to avoid damage to your boat or the transducer.

### 3.1 Transom Mounting

The GT23M-TM is designed for transom mounting. Ensure the chosen location on the transom is clear of obstructions and provides a smooth flow of water over the transducer face for accurate readings, especially at speed.




Figure 2: Transducer with mounting hardware

### 3.2 Electrical Connection

Connect the 8-pin transducer cable to a compatible Garmin echo sounder or chartplotter. Ensure the connection is secure and waterproof. If using with a GT30 TM transmitter, an adapter cable is required for proper functionality.

### 3.3 Product Overview Video

For a visual guide on the product and its components, please watch the official overview video below.

Your browser does not support the video tag.

Video 1: Official Garmin Product Overview for GT15M-IH Transducer (similar to GT23M-TM in general setup principles).

## 4. Operating Instructions

Once installed and connected, the GT23M-TM transducer will provide data to your compatible Garmin display unit. The display unit will allow you to switch between different sonar views and adjust settings.

### 4.1 Sonar Modes

- **CHIRP Traditional Sonar:** Provides classic sonar views with clear fish arches and excellent target separation. Ideal for general fish finding.
- **CHIRP ClearVü Scanning Sonar:** Offers a photographic-like image of what is below your boat, showing structure, submerged objects, and fish with remarkable clarity.

### 4.2 Adjusting Frequencies

The transducer supports mid-band CHIRP (80-160 kHz) for traditional sonar and 260/455 kHz for ClearVü. You can typically adjust these frequencies through your display unit's sonar settings menu to optimize for different water depths and conditions.

### 4.3 Display Unit Operation

Refer to your Garmin display unit's manual for specific instructions on navigating menus, switching sonar views, adjusting gain, range, and other settings to maximize the performance of your GT23M-TM transducer.

## 5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your transducer.

- **Cleaning:** Periodically clean the transducer face with mild soap and water to remove marine growth, dirt, or oil. Avoid abrasive cleaners or tools that could scratch the surface.
- **Inspection:** Regularly inspect the transducer cable for any signs of wear, cuts, or damage. Check the mounting bracket for tightness and corrosion.
- **Winterization:** If storing your boat in freezing temperatures, ensure the transducer is not exposed to ice, which can cause damage.

## 6. Troubleshooting

If you experience issues with your GT23M-TM transducer, consider the following common troubleshooting steps:

- **No Sonar Readings:**
  - Check all cable connections to ensure they are secure and properly seated.
  - Verify that the transducer is correctly selected in your display unit's sonar settings.
  - Ensure the transducer is submerged in water.
- **Poor Readings or Interference:**
  - Inspect the transducer face for marine growth or damage. Clean if necessary.
  - Check the transducer's mounting position for obstructions or turbulent water flow.

- Adjust the gain and frequency settings on your display unit.
- Ensure no other sonar devices or electrical interference sources are too close.

For more detailed troubleshooting, consult the full manual provided with your Garmin display unit or visit the Garmin support website.

## 7. Specifications

| Attribute | Value |
|---|---|
| Brand | Garmin |
| Model Name | GT23M-TM |
| Item Model Number | 010-12404-00 |
| Mounting Type | Transom Mount |
| Traditional Sonar Frequencies | Mid-band CHIRP (80-160 kHz) |
| Traditional Sonar Power | 600 W |
| ClearVü Sonar Frequencies | CHIRP ClearVü (260/455 kHz) |
| ClearVü Sonar Power | 500 W |
| Connector | 8-pin |
| Cross-Sectional Angle | 0-25 degrees |
| Item Weight | 2.5 pounds |
| Product Dimensions | 11.02 x 11.02 x 11.02 inches |
| UPC | 753759148591, 753759163402 |

## 8. Warranty and Support

For warranty information, product registration, and technical support, please visit the official Garmin website or contact Garmin customer service. Keep your purchase receipt as proof of purchase.

Garmin offers various protection plans for their products. For details on available protection plans, please refer to the product's official documentation or the Garmin website.

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