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Lowrance 000-13779-001

Lowrance XSONIC AIRMAR SS175M 20 DEG

USER MANUAL

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Lowrance XSONIC AIRMAR SS175M 20 DEG transducer. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

The Lowrance XSONIC AIRMAR SS175M 20 DEG is a high-performance Medium CHIRP through-hull transducer designed for marine applications, providing accurate depth and temperature readings for fish finding and navigation.

2. Product Overview



Image: The Lowrance XSONIC AIRMAR SS175M 20 DEG through-hull transducer, showing its stainless steel body and the active face with a small white dot indicating orientation.

The SS175M is a 1KW, Medium CHIRP (85-135KHz) transducer featuring a stainless steel low-profile design with a 20-degree tilt. It includes an XID feature and an analog/digital temperature sensor. The transducer connects via a black 9-pin connector and has a cable length of 10 meters (33.0 ft).

3. Key Features

- **Medium CHIRP Technology:** Operates within the 85-135KHz frequency range for excellent target separation and detail.
- **Through-Hull Design:** Provides optimal performance by being mounted directly through the boat's hull.
- **20-Degree Tilt:** Compensates for hull deadrise, ensuring the transducer beam is directed straight down.
- **Stainless Steel Construction:** Durable and corrosion-resistant for marine environments.

- **Integrated Temperature Sensor:** Provides accurate water temperature readings.
- **1KW Power Output:** Delivers strong sonar signals for deep water performance.
- **10m (33.0 ft) Cable:** Ample cable length for various installation scenarios.

4. Setup and Installation

Proper installation is crucial for the performance of your transducer. It is recommended that installation be performed by a qualified marine technician.

4.1. Pre-Installation Checklist

- Ensure the chosen mounting location on the hull is free from obstructions and turbulence.
- Verify the hull material is suitable for through-hull mounting.
- Gather necessary tools: drill, hole saw (appropriate size for transducer), sealant, cleaning supplies.
- Confirm compatibility with your Lowrance display unit (black 9-pin connector).

4.2. Installation Steps (General Guidelines)

1. **Select Location:** Choose a flat area on the hull, away from propellers, keels, and other transducers, where water flow is smooth.
2. **Drill Pilot Hole:** Drill a small pilot hole from inside the hull.
3. **Drill Main Hole:** Using the appropriate size hole saw, drill the main mounting hole from the outside of the hull.
4. **Prepare Surface:** Clean and deburr the area around the hole, both inside and outside the hull.
5. **Apply Sealant:** Apply a generous amount of marine-grade sealant around the transducer shaft and flange.
6. **Insert Transducer:** Carefully insert the transducer through the hull from the outside.
7. **Secure:** From inside the hull, attach the backing plate and nut, tightening securely but not overtightening. Ensure the 20-degree tilt is correctly oriented to compensate for hull deadrise.
8. **Connect Cable:** Route the transducer cable to your Lowrance display unit and connect the black 9-pin connector. Ensure the cable is secured to prevent damage.
9. **Cure Sealant:** Allow the sealant to cure fully according to the manufacturer's instructions before launching the vessel.

Note: Always refer to the detailed installation guide provided with the transducer packaging for specific instructions and safety warnings.

5. Operating Instructions

Once installed, the SS175M transducer operates in conjunction with your compatible Lowrance fishfinder/chartplotter unit.

5.1. Powering On

- Ensure the transducer is properly connected to your Lowrance display unit.
- Power on your Lowrance display unit. The unit should automatically detect the connected SS175M transducer.

5.2. Sonar Settings

- Navigate to the sonar settings menu on your Lowrance unit.
- Select the appropriate transducer type (SS175M or similar Medium CHIRP option).
- Adjust frequency settings within the 85-135KHz range as needed for optimal performance based on depth and target type.

- Fine-tune gain, range, and noise rejection settings for a clear sonar image.

5.3. Temperature Readings

- The integrated temperature sensor will provide water temperature data to your display unit.
- Ensure temperature display is enabled in your unit's settings if you wish to view it on screen.

6. Maintenance

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

- **Cleaning:** Periodically inspect the transducer face for marine growth, dirt, or debris. Clean gently with a soft cloth and mild soap and water. Avoid abrasive cleaners or tools that could scratch the surface.
- **Inspection:** Regularly check the cable for any signs of wear, cuts, or kinks. Inspect the mounting area for any signs of leaks or loose connections.
- **Winterization:** If storing your boat in freezing temperatures, ensure the transducer is not exposed to ice formation, which could damage the element.

7. Troubleshooting

If you experience issues with your SS175M transducer, consider the following common troubleshooting steps:

- **No Sonar Readings / Intermittent Readings:**
 - Check all cable connections for security and corrosion.
 - Inspect the transducer face for fouling (marine growth, air bubbles). Clean if necessary.
 - Verify the transducer type is correctly selected in your display unit's settings.
 - Ensure the unit's power supply is stable.
- **Poor Sonar Image / Noise:**
 - Adjust gain and noise rejection settings on your display unit.
 - Check for sources of electrical interference (e.g., engine, other electronics).
 - Ensure the transducer is mounted in a location with smooth water flow, free from turbulence.
 - Verify the transducer's tilt angle is correct for your hull's deadrise.
- **Inaccurate Temperature Readings:**
 - Clean the transducer face, as fouling can affect temperature sensing.
 - Check cable connections.

If problems persist after attempting these steps, contact Lowrance customer support or a certified marine electronics technician.

8. Specifications

Attribute	Detail
Model Name	XSONIC AIRMAR SS175M 20 DEG
Part Number	000-13779-001
Brand	Lowrance

Transducer Type	Through-Hull
CHIRP Frequency	Medium (85-135KHz)
Power Output	1KW
Tilt Angle	20 Degrees
Connector	Black 9-pin
Cable Length	10 m (33.0 ft)
Sensors	Depth, Temperature (Analog/Digital)
Material	Stainless Steel
Item Weight	11.4 Pounds
Item Dimensions (L x W x H)	11 x 10 x 8 inches

9. Warranty and Support

Lowrance products are backed 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 Lowrance website.

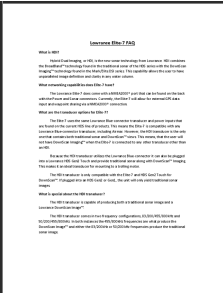
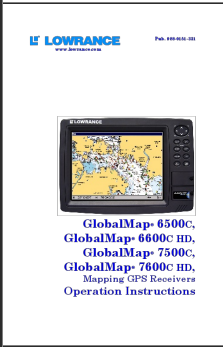
For technical support, product registration, or service inquiries, please contact Lowrance customer service through their official website or the contact information provided in your product documentation. Keep your purchase receipt and product model number (000-13779-001) readily available when seeking support.




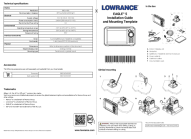
Lowrance Official Website: www.lowrance.com

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Related Documents - 000-13779-001

	<p>Lowrance Elite-7 FAQ: Hybrid Dual Imaging, Transducers, and Networking</p> <p>Explore the Lowrance Elite-7 FAQ, covering Hybrid Dual Imaging (HDI) sonar technology, networking capabilities, transducer compatibility, and comparisons with other Lowrance models. Learn about HDI features, NMEA2000 connectivity, and available accessories.</p>
	<p>Lowrance GlobalMap 6500C, 6600C HD, 7500C, 7600C HD Mapping GPS Receivers Operation Instructions</p> <p>Comprehensive operation instructions for Lowrance GlobalMap 6500C, 6600C HD, 7500C, and 7600C HD mapping GPS receivers, covering installation, basic and advanced operations, system setup, and searching features.</p>

	<p>Lowrance Eagle 4x Operator Manual</p> <p>This manual provides instructions for operating the Lowrance Eagle 4x fishfinder and sonar unit, covering basic operation, sonar and flasher image customization, and maintenance.</p>
	<p>Lowrance HOOK-3x Betriebsanleitung: Fischfinder Bedienung & Technische Daten</p> <p>Umfassende Betriebsanleitung für den Lowrance HOOK-3x Fischfinder. Erfahren Sie mehr über Installation, Bedienung, Sonareinstellungen, technische Daten und Support.</p>
	<p>Lowrance ActiveTarget 2 Installation Manual</p> <p>Installation manual for the Lowrance ActiveTarget 2 live sonar system, detailing setup, wiring, and technical specifications.</p>
	<p>Lowrance Eagle 5 Installation Guide and Mounting Template</p> <p>This document provides installation instructions and a mounting template for the Lowrance Eagle 5 fishfinder/chartplotter. It includes technical specifications, in-the-box contents, mounting procedures, and accessory information.</p>