

Herdio HE-HMS-X6LT-BK

Herdio 6.5 Inch 240W Waterproof Marine Speakers Instruction Manual

Model: HE-HMS-X6LT-BK

1. INTRODUCTION

Thank you for choosing Herdio 6.5 Inch 240W Waterproof Marine Speakers. This manual provides essential information for the proper installation, operation, and maintenance of your new speakers. Please read this manual thoroughly before use to ensure optimal performance and longevity of the product. These speakers are designed for durability and high-quality audio in various outdoor and marine environments.

2. SAFETY INFORMATION

- **Electrical Safety:** Ensure all wiring is correctly connected and insulated to prevent short circuits. Disconnect power before installation or maintenance.
- **Mounting:** Securely mount speakers to a stable surface to prevent detachment during operation, especially in moving vehicles or boats.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume to a comfortable level.
- **Water Exposure:** While these speakers are waterproof, avoid submerging them. Ensure proper sealing during installation to maintain water resistance.
- **Temperature:** Avoid exposing speakers to extreme temperatures outside their operating range.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Marine Waterproof Speaker x 2
- Instruction Manual x 1
- Speaker Cables x 2 (9.8 feet each)

- LED Light Cables x 2
- Mounting Hardware (screws, foam gasket)

What's in the Box

Marine Waterproof Speaker *2
Instruction Manual *1
Speaker Cables * 2
LED Light Cables * 2



Figure 3.1: Included components in the Herdio Marine Speaker package.

4. PRODUCT FEATURES

The Herdio 6.5 Inch Marine Speakers are engineered for robust audio performance and durability in challenging environments.

- **240-Watt Audio Performance:** Delivers 60 watts RMS and 240 watts max power, with a frequency response of 40Hz-18kHz and 4-ohm impedance. Equipped with 2-way full-range audio for rich, balanced stereo sound.
- **6.5-Inch Marine Speaker Pair:** Includes 2 component speakers, each with a standard 6.5-inch size. Built with water-resistant and weather-resistant construction, they stand up to splashes and outdoor conditions—suitable for multiple vehicles.
- **Built-in Blue LED Lights:** Features integrated blue LED lights to enhance ambiance. Designed with durability in mind, including an ABS machined gasket and grill to resist sun damage from UV rays.
- **Slim, Low-Profile Design:** Constructed with a slim, low-profile build for easy installation on boats, marine watercraft, and off-road vehicles. The classic black finish adds a clean, stylish touch. Suitable for Boat, RV, ATV, UTV, Golf Cart.
- **Easy Installation:** Comes with 2 pieces of 9.8-foot speaker wire for straightforward setup. Fits universal OEM replacement standards.



Figure 4.1: Herdio 6.5 Inch Marine Speakers with LED illumination.

2-Way Full Range Stereo Sound

Reproduction 100% MARINE GRADE CONSTRUCTION



Figure 4.2: Illustration of 2-Way Full Range Stereo Sound capability.

Slim Dual Full Range Waterproof Speaker with LED Lights

30W RMS Power(Each)

120W Max Power(Each)



Figure 4.3: Slim design and power rating of the waterproof speaker.

Rugged Marine Grade Construction

Waterproof Rated & Weather-Resistant Design
Low-Profile design fits seamlessly in tight spaces



IPX5



Figure 4.4: Rugged marine-grade construction with IPX5 waterproof rating.



Figure 4.5: Blue LED lights providing ambient illumination.

5. INSTALLATION

5.1 Mounting Location

These speakers are designed for versatile installation in various vehicles and marine craft. Choose a mounting location that is flat, stable, and provides sufficient clearance behind the speaker for wiring and proper air circulation. Ensure the location is protected from direct, prolonged submersion.



Figure 5.1: Examples of suitable installation environments.

5.2 Mounting Procedure

1. **Prepare the Surface:** Ensure the mounting surface is clean and free of obstructions.
2. **Mark Cutout:** Use the provided template (if applicable) or measure the speaker dimensions to mark the cutout area. The speaker dimensions are approximately 168mm (6.6 inches) diameter with a mounting depth of 40mm (1.57 inches).
3. **Cut Opening:** Carefully cut the opening in the mounting surface.
4. **Drill Screw Holes:** Mark and drill pilot holes for the mounting screws.
5. **Install Gasket:** Apply the foam gasket around the speaker's edge to ensure a tight seal and reduce vibration.
6. **Secure Speaker:** Place the speaker into the opening and secure it with the provided screws. Do not overtighten.



Figure 5.2: Speaker installation process.

6. WIRING INSTRUCTIONS

Proper wiring is crucial for optimal sound quality and LED functionality. Refer to your audio source's manual for specific wiring diagrams if needed.

- **Speaker Wiring:** Connect the included speaker cables to the speaker terminals. Ensure correct polarity (positive to positive, negative to negative) from your amplifier or head unit. The included speaker wires are 9.8 feet long.

- **LED Light Wiring:** The blue LED lights require a separate power connection. Connect the LED light cables to a 12V DC power source. This allows independent control of the LED lighting.
 - **Insulation:** Secure all connections with appropriate electrical tape or heat shrink tubing to prevent short circuits and protect against moisture.
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7. OPERATION

Once installed and wired, operating your Herdio marine speakers is straightforward:

- **Power On:** Turn on your audio source (e.g., marine stereo, amplifier).
 - **Adjust Volume:** Start with a low volume and gradually increase it to a comfortable listening level.
 - **LED Control:** If wired to a separate switch, activate the blue LED lights as desired.
 - **Audio Source:** Select your preferred audio input on your head unit or amplifier.
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8. MAINTENANCE

Regular maintenance ensures the longevity and performance of your speakers:

- **Cleaning:** Clean the speaker grilles and surfaces with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the material.
- **Inspection:** Periodically check mounting screws for tightness and wiring connections for corrosion or damage.
- **Weather Protection:** Although weather-resistant, covering the speakers when not in use, especially during prolonged storage or harsh weather, can extend their lifespan.

All-Weather Durability



Figure 8.1: All-weather durability comparison.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Sound	Power not supplied to audio source. Incorrect speaker wiring. Damaged speaker cable. Audio source malfunction.	Check power to head unit/amplifier. Verify speaker wire connections and polarity. Inspect cables for breaks; replace if necessary. Test with a different audio source.
Distorted Sound	Volume too high. Improper amplifier gain settings. Loose speaker connections. Damaged speaker.	Reduce volume. Adjust amplifier gain to match speaker sensitivity. Check and secure all wiring. Contact support if speaker is damaged.

Problem	Possible Cause	Solution
LED Lights Not Working	No power to LED circuit. Incorrect LED wiring. Faulty LED cable or light.	Check 12V DC power source for LEDs. Verify LED cable connections and polarity. Contact support if LEDs are faulty.

10. SPECIFICATIONS

Feature	Detail
Model Name	HE-HMS-X6LT-BK
Speaker Type	Outdoor, Marine
Special Feature	Waterproof, Built-in LED Lights
Recommended Uses	Boat, RV, ATV, UTV, Golf Cart, Outdoor
Unit Count	2.0 Count (Pair)
Color	Black
Product Dimensions (As listed)	1"D x 1"W x 1"H (Please refer to actual dimensions below)
Actual Speaker Diameter	168mm / 6.6 inches
Mounting Depth	40mm / 1.57 inches
Item Weight (Pair)	4.41 pounds (2000 Grams)
Speaker Maximum Output Power	240 Watts (Pair)
RMS Power	60 Watts (Pair)
Impedance	4 Ohms
Frequency Response	40Hz-18kHz
Sensitivity	91dB
Connectivity Technology	Wired
Material	Acrylonitrile Butadiene Styrene (ABS)
Manufacturer	Herdio

Product Dimension



Figure 10.1: Key technical specifications.

Technical Specifications

Max Power:	240W (Pair)
Impedance:	4 Ohms
Sensitivity:	91dB
Frequency Response:	40Hz-18kHz



Figure 10.2: Product dimensions for installation planning.

11. WARRANTY AND SUPPORT

Herdio products are manufactured to high-quality standards. For information regarding warranty coverage, please refer to the warranty card included with your purchase or visit the official Herdio website. For technical support, troubleshooting assistance, or replacement parts, please contact Herdio customer service through the contact information provided on the product packaging or the official website.

Online Resources: For additional support and product information, you may visit the [Herdio Store on Amazon](#).

Related Documents - HE-HMS-X6LT-BK



[Herdio Universal Bluetooth Amplified Box AMP-BTX01 User Manual](#)

This document provides important safety precautions, Bluetooth operation instructions, and technical specifications for the Herdio Universal Bluetooth Amplified Box AMP-BTX01. It also includes warranty information and installation guides for various Herdio speaker models.



[Herdio Waterproof Indoor Outdoor Speakers Owner's Manual HOS-401 HOS-501 HOS-601](#)

This owner's manual provides detailed instructions for the Herdio HOS-401, HOS-501, and HOS-601 waterproof indoor/outdoor speakers, covering installation, wiring, setup, specifications, and warranty information.



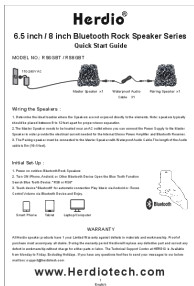
[Herdio High Performance In-Ceiling/In-Wall Speakers - Owner's Manual and Installation Guide](#)

This document provides installation instructions, technical specifications, and warranty information for Herdio's high-performance in-ceiling and in-wall speaker systems, including models like HCS418, HCS528, HCS628, and HCS828, with and without Bluetooth connectivity.



[Herdio Home Bluetooth Ceiling/Wall Speakers Dual Amplifier System Wiring Program](#)

This document outlines the wiring program and Bluetooth operations for Herdio Home Bluetooth In Ceiling/Wall Speakers, featuring a dual amplifier system. It provides step-by-step instructions for connecting speakers, amplifier boxes, and power adapters, along with guidance on pairing Bluetooth devices.



[Herdio 6.5 & 8 Inch Bluetooth Rock Speaker Series Quick Start Guide](#)

This guide provides setup and wiring instructions for Herdio 6.5-inch and 8-inch Bluetooth Rock Speaker Series, including models RS6GBT, RS8GBT, RS6G, and RS8G. Learn how to connect your speakers, pair Bluetooth devices, and understand the product's technical specifications and warranty.



[Herdio 1618 In-Wall Bluetooth Audio Amplifier Receiver System - User Manual & Specifications](#)

Detailed user manual and technical specifications for the Herdio 1618 In-Wall/Wall Mount BT Audio Control Amplifier Receiver System (Model 2AYZ2-1618). Learn about features, installation, power, Bluetooth pairing, and FCC compliance.