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> STUDIOFINIX 4-Inch Marine Speakers with LED Lights Instruction Manual

STUDIOFINIX ST-HMS-X4LT-BK

STUDIOFINIX 4-Inch Marine Speakers with LED Lights Instruction Manual

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your STUDIOFINIX 4-inch waterproof marine speakers. Please read this manual thoroughly before use to ensure safe and optimal performance.

WHAT'S IN THE BOX

The package includes the following items:

- 2 x Passive Marine Speakers
- 2 x Speaker Cables
- 2 x LED Light Cables
- 1 x Installation Manual

Product Dimension



This image displays the complete contents of the product package, including two STUDIOFINIX marine speakers, two sets of speaker cables, two sets of LED light cables, and the instruction manual.

SPECIFICATIONS

Feature	Detail
Brand	STUDIOFINIX
Model Name	ST-HMS-X4LT-BK
Speaker Size	4 Inches
Speaker Type	2-Way Full-Range, Outdoor
Max Power Output	80 Watts (Pair)
RMS Rated Power	20 Watts
Frequency Response	80Hz-18kHz
Impedance	4 Ohms

Sensitivity	90dB
Connectivity Technology	Wired
Material	Acrylonitrile Butadiene Styrene (ABS)
Water Resistance Rating	IPX6
Additional Features	Built-in Blue LED Illuminators, UV-Resistant
Overall Product Outer Size	5.2" D x 1.5" H (133mm D x 38mm H)
Mounting Cutout Size	3.7" d x 0.9" h (97mm d x 23mm h)
Mounting Depth	0.9" (23mm)

Simple and Efficient

Make your travel experience more relaxing



This diagram provides precise measurements for the STUDIOFINIX 4-inch marine speaker, including an outer diameter of 5.23 inches (133mm), a cutout diameter of 3.81 inches (97mm), a mounting depth of 0.9 inches (23mm), and a product thickness of 1.49 inches (38mm).

SAFETY INFORMATION

Adhere to the following safety guidelines during installation and operation:

- Ensure all power is disconnected from the vehicle's electrical system before beginning any installation or maintenance.

- Use appropriate tools and personal protective equipment. Follow all local electrical and marine safety codes and regulations.
- Avoid exposing speakers to extreme temperatures, direct flame, or corrosive chemicals.
- Do not attempt to disassemble, modify, or repair the speakers yourself. This may void the warranty and could result in damage or injury.
- Keep the product and its components out of reach of children.

INSTALLATION

Mounting Location

Select a flat, stable surface for mounting the speakers. Ensure there is sufficient clearance behind the mounting surface to accommodate the speaker's depth and wiring connections. These speakers are designed for marine environments and are suitable for installation in boats, RVs, UTVs, ATVs, and golf carts.



This collage shows the versatility of the STUDIOFINIX marine speakers, installed in different environments such as the ceiling of an RV, the dashboard of a golf cart, the control panel of a boat, and the interior of a UTV, demonstrating their multi-scene compatibility.

Mounting Steps

1. **Prepare the Mounting Surface:** Using the provided dimensions (cutout diameter: 3.7 inches / 97mm; mounting depth: 0.9 inches / 23mm), carefully mark the area for the speaker cutout.
2. **Cut the Opening:** Using an appropriate cutting tool, create the marked opening. Ensure the edges are smooth and free of any debris that could interfere with the speaker's seal.
3. **Connect Wiring:** Before securing the speaker, connect the audio and LED light wires as detailed in the "Wiring Diagram" section.
4. **Secure the Speaker:** Insert the speaker into the cutout. Align the mounting holes and secure the speaker using appropriate fasteners (screws typically included or recommended by the vehicle manufacturer). Do not overtighten the screws to avoid damaging the speaker or mounting surface.



This image demonstrates the straightforward installation process, with one person securing a speaker into a boat's panel and another person preparing wiring connections, highlighting that no power drill or wire stripping is needed for basic setup.

WIRING DIAGRAM

The STUDIOFINIX marine speakers require two separate sets of connections: one for audio signal transmission and another for powering the integrated LED lights.

- **Audio Connection:** Connect the speaker cables to the corresponding output terminals of your audio source (e.g., marine stereo, amplifier). Ensure correct polarity is maintained (positive to positive, negative to negative) for optimal sound reproduction and to prevent phase issues.
- **LED Light Connection:** Connect the LED light cables to a stable 12V DC power source. The cables are equipped with built-in connectors for simplified installation. It is recommended to connect the LED power through an appropriately rated fuse to protect the circuit.

BLUE LED LIGHT

Blue LED light creates a cool night atmosphere for your marine fun.



This image shows a STUDIOFINIX marine speaker with its blue LED lights active, providing a visual reference for the speaker's appearance and the general area for wiring connections.

OPERATION

Once the speakers are correctly installed and all wiring connections are secure, turn on your audio source (marine stereo or amplifier). The speakers will begin to reproduce audio from the connected device. Adjust the volume and any other audio settings (like bass or treble) directly from your audio source unit.

LED LIGHT OPERATION

The STUDIOFINIX marine speakers are equipped with integrated blue LED illuminators. To activate these lights, ensure the dedicated LED light cables are properly connected to a functional 12V DC power source. The LED lights will illuminate automatically when power is supplied to this connection.

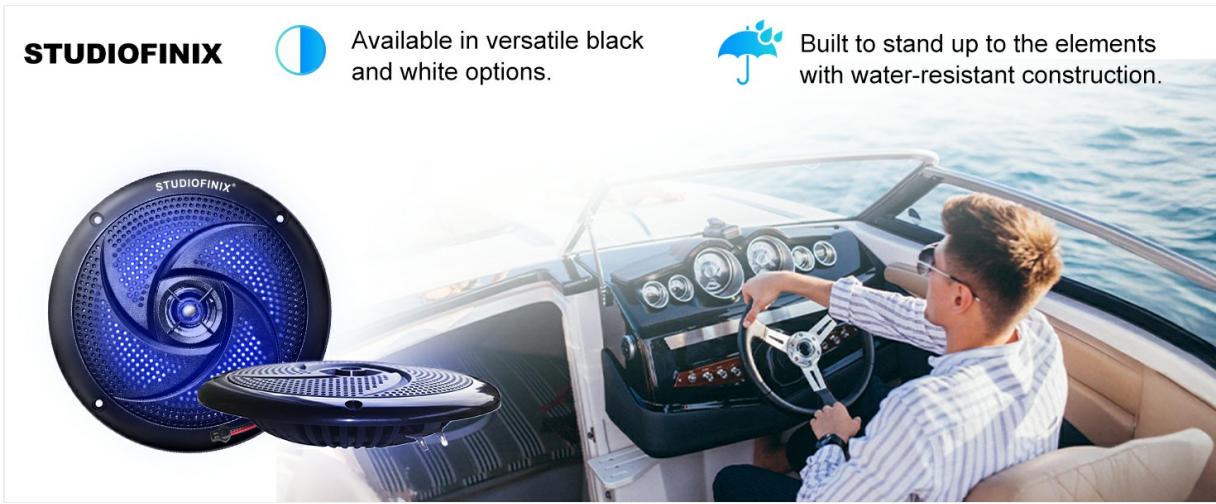
STUDIOFINIX



Available in versatile black and white options.



Built to stand up to the elements with water-resistant construction.



This image captures a STUDIOFINIX marine speaker installed in a boat's dashboard at dusk, with its blue LED lights glowing, illustrating the ambient lighting effect it provides for night-time use.

MAINTENANCE

To ensure the longevity and optimal performance of your marine speakers, regular maintenance is recommended:

- **Cleaning:** Periodically wipe the speaker grilles and surfaces with a soft, damp cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the speaker's finish and waterproof seals.
- **Inspection:** Regularly inspect all wiring connections for any signs of corrosion, fraying, or damage. Ensure that all mounting screws remain tight and secure.
- **Water Exposure:** While the speakers are IPX6 rated for water resistance, prolonged submersion is not recommended. After exposure to saltwater, it is advisable to rinse the speakers with fresh water to prevent salt buildup and potential corrosion.

HIGH POWER, HIGH FIDELITY

80W peak power + 90dB
→ Music without interference

Polyester tweeter + rubber
-edged cone → Clear sound

Max Power:	80W (Pair)
Impedance:	4 Ohms
Sensitivity:	90dB
Frequency Response:	80Hz-18kHz

This image highlights the IPX6 waterproof rating of the STUDIOFINIX marine speakers, depicting one speaker on a boat being hit by waves and another on an RV enduring rain, showcasing their ability to withstand various weather conditions.



This comparative image illustrates the superior durability of STUDIOFINIX marine speakers, showing a speaker in excellent condition after six months of coastal use, contrasted with an ordinary speaker that has rusted and suffered water damage in just three months.

TROUBLESHOOTING

No Sound from Speakers

- **Check Power:** Ensure your audio source (stereo/amplifier) is powered on and functioning correctly.
- **Verify Connections:** Confirm all speaker cables are securely connected to both the speakers and the audio source, with correct polarity.
- **Audio Source Output:** Check the volume and output settings on your audio source. Ensure the correct input source is selected.

LED Lights Not Illuminating

- **Check Power:** Ensure the LED light cables are connected to a functional 12V DC power source.
- **Fuse:** Verify that the fuse protecting the 12V power source for the LEDs is intact and not blown.
- **Connections:** Confirm all LED light cable connections are secure and free from corrosion.

Distorted Sound

- **Volume Level:** Reduce the volume on your audio source. Overdriving the speakers with excessive power can cause distortion.
- **Wiring:** Check speaker wire connections for any loose contacts or corrosion that could interfere with the signal.
- **Power Output:** Ensure your amplifier's power output is compatible with the speaker's rated RMS power (20W RMS). Excessive power can damage speakers.

WARRANTY AND SUPPORT

For detailed warranty information, technical assistance, or customer support, please refer to the contact details provided with your original purchase documentation. You may also visit the official STUDIOFINIX website for further resources and support options.