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› [Yamaha](#) /

› [Yamaha NS-AW150W 2-Way Indoor/Outdoor Speakers User Manual](#)

Yamaha NS-AW150W

Yamaha NS-AW150W 2-Way Indoor/Outdoor Speakers User Manual

Model: NS-AW150W

1. INTRODUCTION

The Yamaha NS-AW150W speakers are designed to deliver high-quality audio both indoors and outdoors. Featuring a 2-way acoustic suspension design, these speakers provide clear sound with controlled bass response. They are equipped with a 5-inch high-compliance, polypropylene, mica-filled woofer and a 0.5-inch PEI dome tweeter. The speakers are magnetically shielded and water-resistant, making them suitable for various environments. This manual provides essential information for the proper setup, operation, and maintenance of your NS-AW150W speakers.

2. SAFETY INFORMATION

- **Read Instructions:** Carefully read all instructions before operating the speakers.
- **Retain Instructions:** Keep this manual for future reference.
- **Heed Warnings:** Observe all warnings on the product and in the operating instructions.
- **Cleaning:** Clean only with a dry cloth.
- **Water and Moisture:** Do not use these speakers near water. While water-resistant, they are not fully waterproof and should not be submerged.
- **Ventilation:** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- **Heat:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Mounting:** Use only attachments/accessories specified by the manufacturer. Ensure mounting surfaces are strong enough to support the speakers securely.
- **Servicing:** Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 2 x Yamaha NS-AW150W 2-Way Speakers

- 2 x Wall Mounting Brackets
- Speaker Cable (2 lengths)
- User Manual (this document)

4. SETUP AND INSTALLATION

4.1 Placement

The NS-AW150W speakers can be placed vertically or horizontally. For optimal sound, consider the following:

- **Indoor Use:** Position speakers to create a stereo soundstage. For deeper bass, consider augmenting with a subwoofer.
- **Outdoor Use:** Mount speakers under eaves or other protected areas to minimize direct exposure to harsh weather. While water-resistant, prolonged direct exposure to heavy rain or snow is not recommended.
- **Magnetic Shielding:** These speakers are magnetically shielded, allowing placement near TVs or video monitors without picture degradation.

4.2 Mounting the Speakers

The speakers come with wall mounting brackets for secure installation.

1. **Choose Location:** Select a sturdy wall or surface capable of supporting the speaker's weight.
2. **Attach Bracket:** Securely attach the wall mounting bracket to the chosen surface using appropriate screws (not included, choose based on wall material).
3. **Speaker Attachment:** Attach the speaker to the bracket. The bracket allows for adjustment of the speaker's angle.



Image: Rear view of the speaker, illustrating the mounting bracket attachment point and speaker terminals. Note: Speaker color in image may vary.



Image: Side view of the speaker, showing how the mounting bracket connects and allows for angle adjustment. Note: Speaker color in image may vary.

4.3 Wiring the Speakers

The NS-AW150W speakers feature 5-way binding posts for connecting speaker cables.

1. **Prepare Cables:** Strip approximately 1/2 inch (1.2 cm) of insulation from the ends of your speaker cables. Twist the bare wires tightly.
2. **Connect to Speakers:** Connect the positive (+) terminal (red) on the speaker to the positive (+) terminal on your amplifier. Connect the negative (-) terminal (black) on the speaker to the negative (-) terminal on your amplifier. Ensure correct polarity for both speakers.
3. **Secure Connection:** Tighten the binding posts to ensure a firm connection. Avoid short circuits between positive and negative wires.



Image: Front view of the white Yamaha NS-AW150W speaker.

5. OPERATING THE SPEAKERS

Once properly installed and connected to an amplifier, your Yamaha NS-AW150W speakers are ready for use.

- **Power On:** Turn on your amplifier and select the appropriate input source.
- **Volume Control:** Start with a low volume level and gradually increase it to your desired listening level.
- **Amplifier Compatibility:** These speakers have a nominal impedance of 6 ohms and can handle up to 120 watts maximum power capacity (35 watts nominal). Ensure your amplifier's output matches these specifications to prevent damage.

6. MAINTENANCE

To ensure the longevity and optimal performance of your speakers, follow these maintenance guidelines:

- **Cleaning:** Wipe the speaker cabinets with a soft, dry cloth. Do not use abrasive cleaners, waxes, or solvents.
- **Outdoor Care:** Although water-resistant, it is advisable to bring outdoor speakers indoors during extreme weather conditions (e.g., heavy snow, prolonged freezing temperatures) to extend their lifespan.
- **Grilles:** The metal grilles protect the speaker components. Avoid pressing on them or allowing objects to puncture them.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No sound from speakers.	Incorrect wiring, amplifier off, wrong input selected, loose connections.	Check all speaker wire connections for correct polarity and tightness. Ensure amplifier is on and the correct input is selected.
Distorted or poor sound quality.	Overdriven amplifier, damaged speaker wire, incorrect amplifier settings.	Reduce amplifier volume. Inspect speaker wires for damage. Check amplifier's tone controls or EQ settings.
One speaker not working.	Loose connection, damaged speaker wire, amplifier balance setting.	Check connections for the non-working speaker. Swap speaker wires at the amplifier to determine if the issue is with the speaker or the amplifier channel. Check amplifier balance control.

8. SPECIFICATIONS

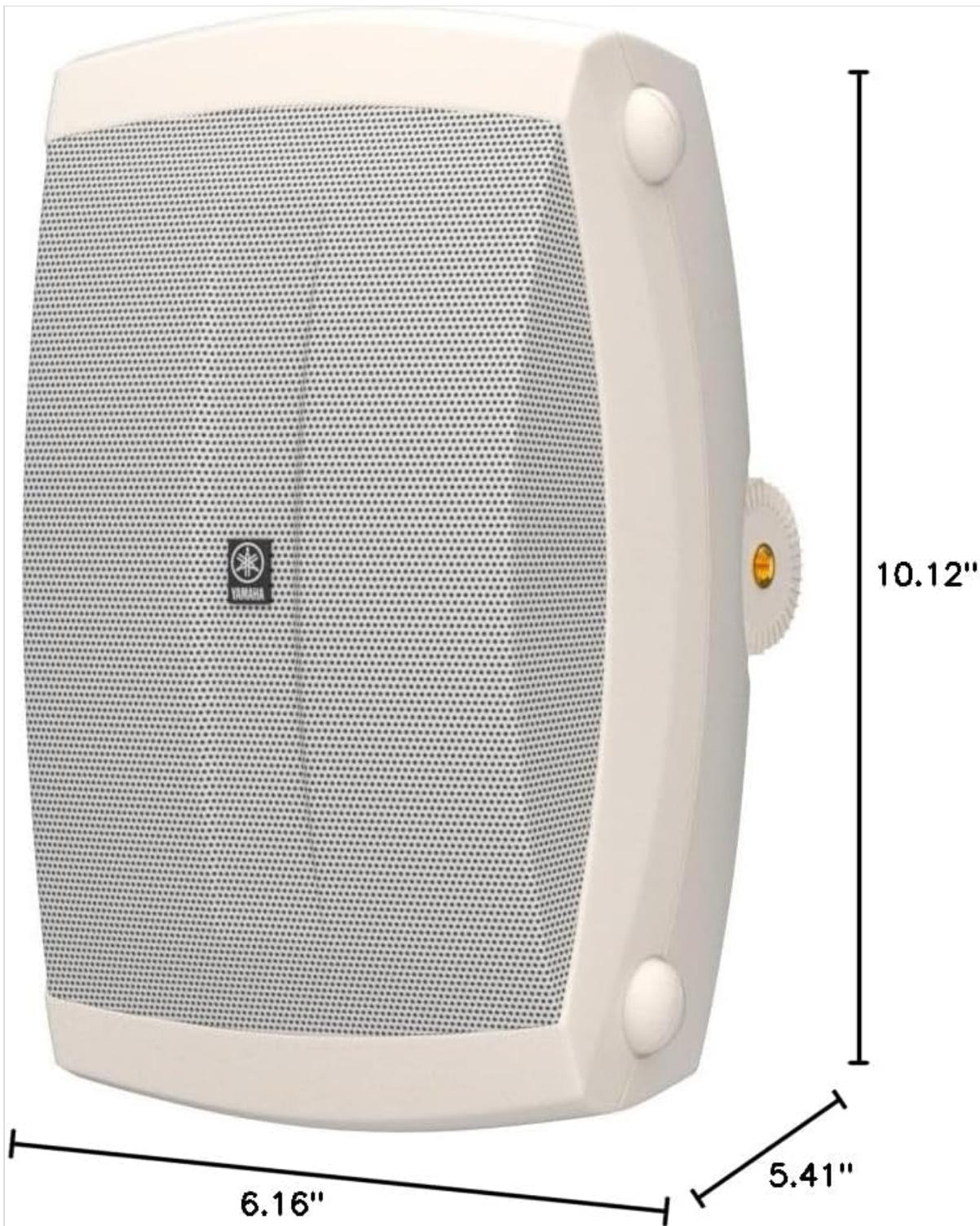


Image: Dimensions of the Yamaha NS-AW150W speaker.

Feature	Detail
Model Name	NS-AW150W
Speaker Type	2-Way, Indoor/Outdoor
Woofer	5-inch high-compliance, polypropylene, mica-filled
Tweeter	0.5-inch PEI dome
Frequency Response	80 Hz - 40,000 Hz (+/-3 dB)
Nominal Impedance	6 Ohms

Feature	Detail
Nominal Power Capacity	35 Watts
Maximum Power Capacity	120 Watts
Sensitivity	80 dB (2.83V at 1 meter)
Dimensions (W x H x D)	5.41" x 10.13" x 6.16" (13.74 cm x 25.73 cm x 15.65 cm)
Weight (per speaker)	Approximately 8 pounds (3.6 kg)
Water Resistance	Water Resistant
Mounting Type	Wall Mount
Color	White

9. WARRANTY AND SUPPORT

Yamaha products are manufactured to high standards and are backed by a limited warranty. For specific warranty details, please refer to the warranty card included in your package or visit the official Yamaha website.

For technical support, service, or additional product information, please contact Yamaha customer support through their official website or the contact information provided in your warranty documentation.

