db Technologies AMS-OPERA-15

dBTechnologies Opera 2-Way Active Speaker User Manual

Model: AMS-OPERA-15
Brand: db Technologies

INTRODUCTION

The dBTechnologies Opera series active speakers are designed to deliver powerful and clear audio performance for various applications, including playback and live music. This manual provides essential information for the safe and effective setup, operation, and maintenance of your Opera 2-Way Active Speaker.

IMPORTANT SAFETY INFORMATION

Please read and understand all safety instructions before operating this product. Retain this manual for future reference.

- Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- 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.

WHAT'S IN THE BOX

Verify that all components are present upon unpacking:

- Active Speaker (1 unit)
- Power Cord
- User Manual (this document)

PRODUCT OVERVIEW

The dBTechnologies Opera 2-Way Active Speaker features a robust design with advanced DSP processing for optimal sound delivery.

Front view of the Opera 15-inch active speaker, showcasing its full grille design.

OPERA 15

Width: 420 mm
Height: 722 mm
Depth: 419 mm
Weight: 18.3 Kg
Max SPL: 130 dB
RMS Power: 600W
Peak Power: 1200W

OPERA 12

Width: 350 mm
Height: 642 mm
Depth: 349 mm
Weight: 14.3 Kg
Max SPL: 129 dB
RMS Power: 600W
Peak Power: 1200W

OPERA 10

Width: 300 mm
Height: 552 mm
Depth: 301 mm
Weight: 12.3 Kg
Max SPL: 128 dB
RMS Power: 600W
Peak Power: 1200W

Visual comparison illustrating the relative sizes of the Opera 10, Opera 12, and Opera 15 models.

Key Features:

- Powerful Class D 600 W amplifier with 1200W peak power.
- Advanced DSP processing with FIR filters for coherent audio performance.
- Newly designed asymmetrical horn for optimized vertical and double horizontal dispersion.
- Two input channels (MIC-LINE/MIC-INSTR) and selectable output channel (LINK CH1/MIX CH 1+2).
- 8 EQ presets for versatile sound customization.
- Suitable for both playback and live music applications, including stage monitor use.

SETUP

Placement:

Position the speaker on a stable, flat surface or a compatible speaker stand. Ensure adequate ventilation around the unit.

Connections:

1. **Power Connection:** Connect the supplied power cord to the AC IN socket on the rear panel of the speaker and then to a suitable power outlet. Ensure the power switch is in the OFF position before connecting.
2. **Audio Input:** Use XLR or 1/4-inch TRS cables to connect your audio source (mixer, microphone, instrument) to the INPUT 1 (MIC-LINE) or INPUT 2 (MIC-INSTR) jacks on the rear panel.
3. **Audio Output (Link):** If connecting multiple speakers, use the LINK CH1 or MIX CH 1+2 output to send the audio signal to another speaker or audio device.

OPERATING INSTRUCTIONS

Powering On/Off:

1. Ensure all connections are secure.
2. Turn on the power switch located on the rear panel. The power indicator LED will illuminate.
3. To power off, turn off the power switch and then disconnect the power cord.

Input Level Adjustment:

Adjust the input gain controls for INPUT 1 and INPUT 2 to achieve an optimal signal level without distortion. Monitor the signal/clip LED indicators.

DSP Presets:

The speaker features 8 DSP presets to optimize sound for different applications. Use the DSP PRESET selector on the rear panel to cycle through the available presets. Refer to the detailed product manual for specific preset descriptions.

Output Selection:

The OUTPUT SELECT switch allows you to choose between linking only Channel 1 (LINK CH1) or a mix of Channel 1 and Channel 2 (MIX CH 1+2) to the output XLR connector.

MAINTENANCE

Cleaning:

Clean the speaker cabinet with a soft, dry cloth. Do not use abrasive cleaners, waxes, or solvents. Ensure the speaker is powered off and unplugged before cleaning.

Storage:

When not in use for extended periods, store the speaker in a dry, cool environment, away from direct sunlight and extreme temperatures. It is recommended to use the original packaging for protection.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No Sound	No power; Incorrect input connection; Input gain too low; Source device issue.	Check power cord and outlet; Verify audio cable connections; Increase input gain; Check source device output.
Distorted Sound	Input signal too high (clipping); Faulty cable; Speaker overload.	Reduce input gain; Try a different cable; Reduce overall volume.
No Power Indicator	No power; Blown fuse.	Check power cord and outlet; Replace fuse (refer to service manual or qualified personnel).

SPECIFICATIONS

Feature	Detail
Model Name	Opera
Speaker Type	Powered Speaker
Speaker Amplification Type	Active
Woofer Diameter	15 Inches
RMS Power	600 Watts
Peak Power	1200 Watts
Max SPL	130 dB
Product Dimensions	19.88 x 19.69 x 32.28 inches
Item Weight	50.3 pounds
Connectivity Technology	USB, Ethernet, XLR
Control Method	Touch
Power Source	Corded Electric
Manufacturer	American Music and Sound

WARRANTY AND SUPPORT

Warranty Information:

This product comes with a Limited Warranty. Please refer to the warranty card included with your purchase or visit the official dBTechnologies website for detailed terms and conditions.

Customer Support:

For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact dBTechnologies customer support or your authorized dealer. Contact information can typically be found on the manufacturer's website.

Manufacturer: American Music and Sound

Model Number: AMS-OPERA-15

ASIN: B087SCL1RG

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For more information, visit: Product Page on Amazon