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› ASHATA 7 Band Sound Equalizer User Manual

ASHATA ASHATAzhv3y9b0mr

ASHATA 7 Band Sound Equalizer User Manual

Model: ASHATAzhv3y9b0mr

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your ASHATA 7 Band Sound Equalizer. Please read this manual thoroughly before using the product to ensure proper functionality and to prevent damage.



Figure 1.1: Front view of the ASHATA 7 Band Sound Equalizer, showing the seven equalizer knobs and the master volume knob, along with power button and input jack.

2. SAFETY INFORMATION

To ensure safe operation and prevent damage to the device or injury to yourself, please observe the following safety precautions:

- **Power Supply:** Use only a DC 5V-12V power supply. Using an incorrect voltage can damage the device.
- **Environment:** Do not expose the device to water, moisture, or extreme temperatures. Operate in a dry, well-ventilated area.
- **Handling:** Avoid dropping or subjecting the device to strong impacts.
- **Ventilation:** Ensure proper ventilation around the device to prevent overheating.
- **Children:** Store the product separately from children's toys and other items to avoid accidental ingestion or choking.



1. Warning

Store the product separately from children's toys and other items to avoid accidental ingestion or choking.

2. Warnung

Bitte bewahren Sie das Produkt getrennt von Kinderspielzeug und anderen Gegenständen auf, um versehentliches Verschlucken oder Erstickten zu vermeiden.

3. Avertissement

Conservez le produit à l'écart des jouets d'enfants et d'autres articles afin d'éviter toute ingestion accidentelle ou tout étouffement par les enfants.

4. Advertencia

Guarde el producto separado de los juguetes de los niños y de otros objetos para evitar que los niños lo ingieran accidentalmente o se atraganten.

5. Ostrzeżenie

Przechowuj produkt osobno od zabawek dziecięcych i innych przedmiotów, aby uniknąć przypadkowego połknięcia lub zadławienia.

6. Waarschuwing

Bewaar het product apart van kinderspeelgoed en andere voorwerpen om te voorkomen dat kinderen het per ongeluk inslikken of stikken.

7. Varning

Förvara produkten åtskild från leksaker och andra föremål för att undvika att barn råkar svälja eller kväva den.

8. Attenzione

Conservare il prodotto separatamente dai giocattoli dei bambini e da altri oggetti per evitare ingestione accidentale o soffocamento.

9. Uyarı

Çocukların kazara yutmasını veya boğulmasını önlemek için ürünü çocuk oyuncaklarından ve diğer eşyalardan ayrı bir yerde saklayın.

Figure 2.1: Safety warning label, emphasizing the importance of keeping the product away from children to prevent accidental ingestion or choking hazards.

3. PRODUCT OVERVIEW

3.1. Key Features

- 7-Band Equalization: Adjust audio frequencies at 60Hz, 150Hz, 400Hz, 1KHz, 3KHz, 6.5KHz, and 15KHz.
- ± 12 dB Control Range: Provides precise control over each frequency band.
- Integrated Headphone Amplifier: Features a NE5532-based Type 47 headphone driver circuit, capable of driving various headphone types.
- Dual Channel Audio: Supports stereo sound processing.
- Multiple Inputs/Outputs: Includes 3.5mm auxiliary input (supports 4-pole plug for microphone pass-through) and RCA input/output.
- High-Quality Components: Utilizes 4580 op-amp for 5 times amplification (14dB) and original TI or ST TL074 composition for

equalization.

- **Durable Construction:** Made from aluminum alloy for high strength and stable performance.

3.2. Components and Controls

Familiarize yourself with the various parts of the equalizer:



Figure 3.1: Top and rear view of the equalizer. The top panel shows the equalizer knobs and volume control. The rear panel displays the RCA input (IN), RCA output (OUT), and DC 5-12V power input.

1. **Equalizer Knobs (60Hz, 150Hz, 400Hz, 1KHz, 3KHz, 6.5KHz, 15KHz):** Seven individual rotary knobs to adjust the gain of each frequency band.
2. **Volume Knob:** Master volume control for the headphone output.
3. **Power Button:** Toggles the device on/off.
4. **Power Indicator LED:** Illuminates when the device is powered on.
5. **3.5mm Auxiliary Input (IN):** Front panel input for connecting audio sources via a 3.5mm cable. Supports 4-pole plugs for microphone pass-through.

6. **Headphone Output:** Front panel 3.5mm jack for connecting headphones.
7. **RCA Input (IN):** Rear panel stereo RCA jacks for connecting audio sources.
8. **RCA Output (OUT):** Rear panel stereo RCA jacks for connecting to an amplifier or other audio equipment.
9. **DC 5-12V Power Input:** Rear panel jack for connecting the power adapter.

4. SETUP

Follow these steps to set up your ASHATA 7 Band Sound Equalizer:

1. **Power Connection:** Connect a DC 5V-12V power adapter (not included) to the "DC 5-12V" input jack on the rear panel.
2. **Audio Input:**
 - For RCA input: Connect your audio source (e.g., CD player, media player) to the "IN" RCA jacks on the rear panel. Ensure left (L) and right (R) channels are correctly matched.
 - For 3.5mm auxiliary input: Connect your audio source (e.g., smartphone, tablet) to the "IN" 3.5mm jack on the front panel.
3. **Audio Output:**
 - For RCA output: Connect the "OUT" RCA jacks on the rear panel to your amplifier, powered speakers, or other audio receiving equipment. Ensure left (L) and right (R) channels are correctly matched.
 - For Headphone output: Connect your headphones to the 3.5mm headphone jack on the front panel.
4. **Initial Settings:** Before powering on, set all equalizer knobs to their center (0dB) position and turn the volume knob to its minimum setting.
5. **Power On:** Press the "POWER" button on the front panel. The power indicator LED will illuminate.



Figure 4.1: The equalizer shown with a USB power cable, indicating its DC 5-12V power input compatibility.

5. OPERATING INSTRUCTIONS

Once the equalizer is set up, you can begin adjusting your audio:

1. **Play Audio:** Start playing audio from your connected source.
2. **Adjust Volume:** Slowly increase the "VOLUME" knob on the front panel to a comfortable listening level.
3. **Equalization Adjustment:** Use the seven equalizer knobs to fine-tune the audio frequencies.
 - Turn a knob clockwise to boost (increase) the gain for that frequency band (up to +12dB).
 - Turn a knob counter-clockwise to cut (decrease) the gain for that frequency band (down to -12dB).
 - The frequency bands are: 60Hz (sub-bass), 150Hz (bass), 400Hz (low-mids), 1KHz (mids), 3KHz (upper-mids), 6.5KHz (presence/treble), 15KHz (high treble).
4. **Headphone Use:** When using headphones, adjust the "VOLUME" knob for the headphone output. If your 3.5mm input cable supports a 4-pole plug, you can use a headset with a microphone for voice calls on compatible devices.
5. **Experimentation:** Experiment with different settings to find the optimal sound profile for your audio content and listening environment.



Figure 5.1: A close-up view of the seven equalizer knobs and the master volume knob, showing their frequency labels and adjustment range indicators.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your equalizer:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the device. Do not use liquid cleaners or abrasive materials.

- **Dust:** Keep the device free from dust accumulation, especially around the knobs and jacks.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Connections:** Periodically check all cable connections to ensure they are secure and free from damage.

7. TROUBLESHOOTING

If you encounter issues with your ASHATA 7 Band Sound Equalizer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power	Power adapter not connected or faulty; power button off.	Ensure power adapter is securely connected and functioning. Press the power button to turn on the device.
No sound output	Incorrect cable connections; volume too low; input source not playing.	Check all audio cables (input and output) for secure connection and correct channel matching. Increase the volume knob. Verify that the audio source is playing.
Distorted sound	Input signal too strong; equalizer settings too high; faulty cables.	Reduce the volume of the input source. Adjust equalizer knobs to a lower setting. Check and replace any damaged audio cables.
Humming or buzzing noise	Ground loop issue; interference from other electronics; faulty power supply.	Ensure all components are properly grounded. Move the equalizer away from other electronic devices. Try a different power outlet or power adapter.

If the problem persists after trying these solutions, please contact customer support.

8. SPECIFICATIONS

Parameter	Value
Brand	ASHATA
Model Number	ASHATAzhv3y9b0mr
Item Weight	11.9 ounces (approx. 337.4 grams)
Package Dimensions	7.13 x 4.88 x 2.2 inches (approx. 18.1 x 12.4 x 5.6 cm)
Power Supply	DC 5V-12V
Equalization Bands	60Hz, 150Hz, 400Hz, 1KHz, 3KHz, 6.5KHz, 15KHz
Control Range	±12dB per band
Preamplification Gain	5 times (14dB) via 4580 op amp
Input Impedance	20K ohms
Output Impedance	600 ohms
Headphone Driver	NE5532 (Type 47 circuit)

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact the seller directly. Keep your proof of purchase for any warranty claims.

For further assistance, you may visit the ASHATA store on Amazon: [ASHATA Store](#)

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question