



Manuals.plus /

- › Gugxiom /
- › Gugxiom EQ-7 7-Band Digital Audio Equalizer Instruction Manual

Gugxiom Gugxiomb7vzt4d90e

Gugxiom EQ-7 7-Band Digital Audio Equalizer Instruction Manual

Model: Gugxiomb7vzt4d90e | Brand: Gugxiom

1. PRODUCT OVERVIEW

The Gugxiom EQ-7 is a compact 7-band digital audio equalizer designed to provide precise control over your audio frequencies. It features dual-channel sound processing, adjustable bass and treble, and a built-in headphone amplifier. This device is suitable for various audio setups, including car audio systems and home entertainment.



Figure 1: Top view of the Gugxiom EQ-7 7-Band Digital Audio Equalizer, showing the seven equalization knobs and volume control.

2. KEY FEATURES

- **7-Band Equalization:** Offers precise control over 7 frequency bands (60Hz, 150Hz, 400Hz, 1kHz, 3kHz, 6.5kHz, 15kHz) with a control range of ± 12 dB.
- **Dual-Channel Audio:** Processes audio signals for both left and right channels independently.
- **Headphone Amplifier:** Integrated NE5532-based headphone driver circuit capable of driving various headphone types.
- **Versatile Connectivity:** Features RCA input/output and a 3.5mm input interface supporting 4-pole plugs for headsets with microphones.
- **Robust Construction:** Housed in a durable aluminum alloy casing for high strength and stable performance.
- **Wide Power Input:** Operates on a DC5V-12V power supply.

3. SPECIFICATIONS

Parameter	Value
Brand	Gugxiom
Model	Gugxiomb7vzt4d90e (EQ-7)
Power Supply	DC5V-12V
Power Interface	5.5x2.1mm DC Jack
Input Impedance	20K Ohms
Output Impedance	600 Ohms
Equalization Bands	60Hz, 150Hz, 400Hz, 1KHz, 3KHz, 6.5KHz, 15KHz
Control Range	±12dB
Pre-amplification Gain	14dB (5 times)
Dimensions	Approx. 18 x 14 x 6 cm
Weight	Approx. 242 grams



Figure 2: The equalizer unit displaying key technical specifications.

4. PACKAGE CONTENTS

Please verify that all items are present in the package:

- 1 x Gugxiom EQ-7 7-Band Digital Audio Equalizer

- 1 x USB Power Cable (DC 5.5x2.1mm to USB-A)



Figure 3: The equalizer unit and its accompanying USB power cable.

5. SETUP INSTRUCTIONS

Follow these steps to set up your Gugxiom EQ-7:

- 1. Power Connection:** Connect the provided USB power cable to the DC 5.5x2.1mm power input jack on the equalizer. Plug the USB-A end into a compatible DC 5V-12V power source (e.g., USB wall adapter, car USB port).
- 2. Audio Input:**
 - For RCA input: Connect your audio source (e.g., car stereo, media player) to the **IN (RCA)** ports on the equalizer using RCA cables. Ensure correct Left (L) and Right (R) channel connections.
 - For 3.5mm input: Connect your audio source (e.g., smartphone, tablet) to the **IN (3.5mm)** jack. This input supports 4-pole plugs for headsets with microphones, allowing for voice calls. *Note: The 3.5mm input and RCA input cannot be used simultaneously. Select only one.*
- 3. Audio Output:**
 - For RCA output: Connect the **OUT (RCA)** ports of the equalizer to your amplifier or speakers using RCA cables. Ensure correct Left (L) and Right (R) channel connections.
 - For Headphone output: Connect your headphones to the **Headphone Jack** on the front panel.
- 4. Power On:** Press the **POWER** button on the front panel to turn on the equalizer. The power indicator light will illuminate.

Power Switch Audio Input

Headphone Jack

Supports Headset Calls With Microphone
Input 3.5 and Lotus port can not be used at the same time, only one of them can be selected.

Output 3.5 and Lotus port can be used at the same time.



Figure 4: Detailed view of the equalizer's input/output ports and power switch.

6. OPERATING INSTRUCTIONS

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

6.1. Equalization Control

The EQ-7 features seven rotary knobs, each corresponding to a specific frequency band:

- **60Hz:** Controls the deepest bass frequencies.
- **150Hz:** Adjusts mid-bass frequencies.
- **400Hz:** Affects lower midrange frequencies.
- **1KHz:** Controls central midrange frequencies.
- **3KHz:** Adjusts upper midrange frequencies.
- **6.5KHz:** Affects lower treble frequencies.
- **15KHz:** Controls the highest treble frequencies.

Rotate each knob clockwise to boost (increase) the corresponding frequency band by up to +12dB, or counter-clockwise to cut (decrease) it by up to -12dB. The center position represents a flat (0dB) response for that band.

6.2. Volume Control

The **VOLUME** knob controls the overall output level of the equalizer. Rotate it clockwise to increase the volume and counter-clockwise to decrease it. Adjust this to your desired listening level.



Figure 5: The front panel of the equalizer, highlighting the frequency band adjustment knobs and master volume control.

6.3. 3.5mm Headset Functionality

When using the 3.5mm input with a 4-pole headset (headphones with an integrated microphone), the equalizer supports normal mobile phone voice calls. The output from the 3.5mm jack can be connected to headphones with a microphone for this purpose.

7 Band Sound Equalizer

Power Supply: **DC5V-12V**

Interface Specification: **5.5x2.1**

Input Impedance: **20K**

Output Impedance: **600 Ohms**

Equalization Frequency Band:

**60HZ,150HZ,400HZ,1KHZ,
3KHZ,6.5KHZ,15KHZ**

Equalization Circuit Control Range:

±12dB



Figure 6: Illustration of connecting a 3.5mm headset to the equalizer for audio input and microphone functionality.

7. MAINTENANCE

To ensure the longevity and optimal performance of your Gugxiom EQ-7, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid using harsh chemicals, solvents, or abrasive cleaners.
- **Environment:** Keep the equalizer in a dry, well-ventilated area, away from direct sunlight, extreme temperatures, and high humidity.
- **Handling:** Handle the unit with care to prevent physical damage. Avoid dropping or subjecting it to strong impacts.
- **Power:** Disconnect the power supply when the unit is not in use for extended periods.

8. TROUBLESHOOTING

If you encounter issues with your Gugxiom EQ-7, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
No sound output	<ul style="list-style-type: none"> • Power not connected or unit off. • Incorrect audio input/output connections. • Volume knob set too low. • Input source not playing. 	<ul style="list-style-type: none"> • Ensure power cable is securely connected and unit is powered on. • Verify RCA and/or 3.5mm connections are correct and secure. • Increase the VOLUME knob. • Check if your audio source is playing and its volume is adequate.
Distorted or noisy sound	<ul style="list-style-type: none"> • Input signal too strong. • Poor quality cables. • Ground loop interference. • Faulty audio source. 	<ul style="list-style-type: none"> • Reduce the output volume of your audio source. • Try using higher quality shielded audio cables. • Ensure all audio components are properly grounded. • Test with a different audio source.
Equalization knobs not responding	<ul style="list-style-type: none"> • Unit is off or not receiving power. • Internal malfunction. 	<ul style="list-style-type: none"> • Ensure the unit is powered on. • If the issue persists, contact customer support.
Headphone output noisy	<ul style="list-style-type: none"> • Interference from power supply. • Headphone impedance mismatch. 	<ul style="list-style-type: none"> • Try a different power adapter or USB port. • Test with different headphones.

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or visit the official Gugxiom website. Keep your proof of purchase for warranty claims.