

MIZISNR EQ-231

MIZISNR EQ-231 Graphic Equalizer Instruction Manual

Dual Channel 31-Band Stereo EQ for Home Audio and Professional Use

1. INTRODUCTION

Thank you for choosing the MIZISNR EQ-231 Graphic Equalizer. This professional-grade dual-channel stereo graphic equalizer is designed to provide precise audio control for both home audio systems and professional DJ setups. This manual will guide you through the features, setup, and operation of your new equalizer to ensure optimal performance and an exceptional audio experience.

2. KEY FEATURES

- **Professional Dual Channel Stereo Graphic Equalizer:** Experience top-tier audio quality with this professional-grade dual-channel stereo graphic equalizer, designed to deliver an exceptional audio experience for audiophiles and professionals alike.
- **31-Band Design:** Each channel features a 31-band design with an adjustable range of $\pm 12\text{dB}$ per band, allowing for extensive customization to suit your specific audio needs. Adjust gain and decay values from $\pm 6\text{dB}$ to $\pm 12\text{dB}$ for precise control.
- **Effective Elimination of Low Frequency Noise:** Equipped with a LOW-CUT switch, this 31-band graphic equalizer effectively attenuates unwanted sounds such as wind noise, floor rumble, electrical hum, and more, resulting in crystal-clear, dynamic output with the perfect level of low-end punch.
- **Convenient Machine Debugging:** Featuring a BYPASS switch, this stereo equalizer simplifies machine debugging and makes it user-friendly and hassle-free. 4-segment LED ladders for monitoring of gain reduction and output levels—the most comprehensive visual feedback available.
- **Versatile Input & Output Options:** The audio control equalizer supports various input and output methods, including XLR balanced and 1/4" TRS unbalanced inputs and outputs. This versatility ensures compatibility with a wide range of audio setups, catering to diverse usage needs. Suitable for live applications, audio installations, and for use in a studio.

MIZISNR 231 PROFESSIONAL EQUALIZER



Noise reducer



Limiter



Signal-to-noise
ratio



Real-Time
31-Band

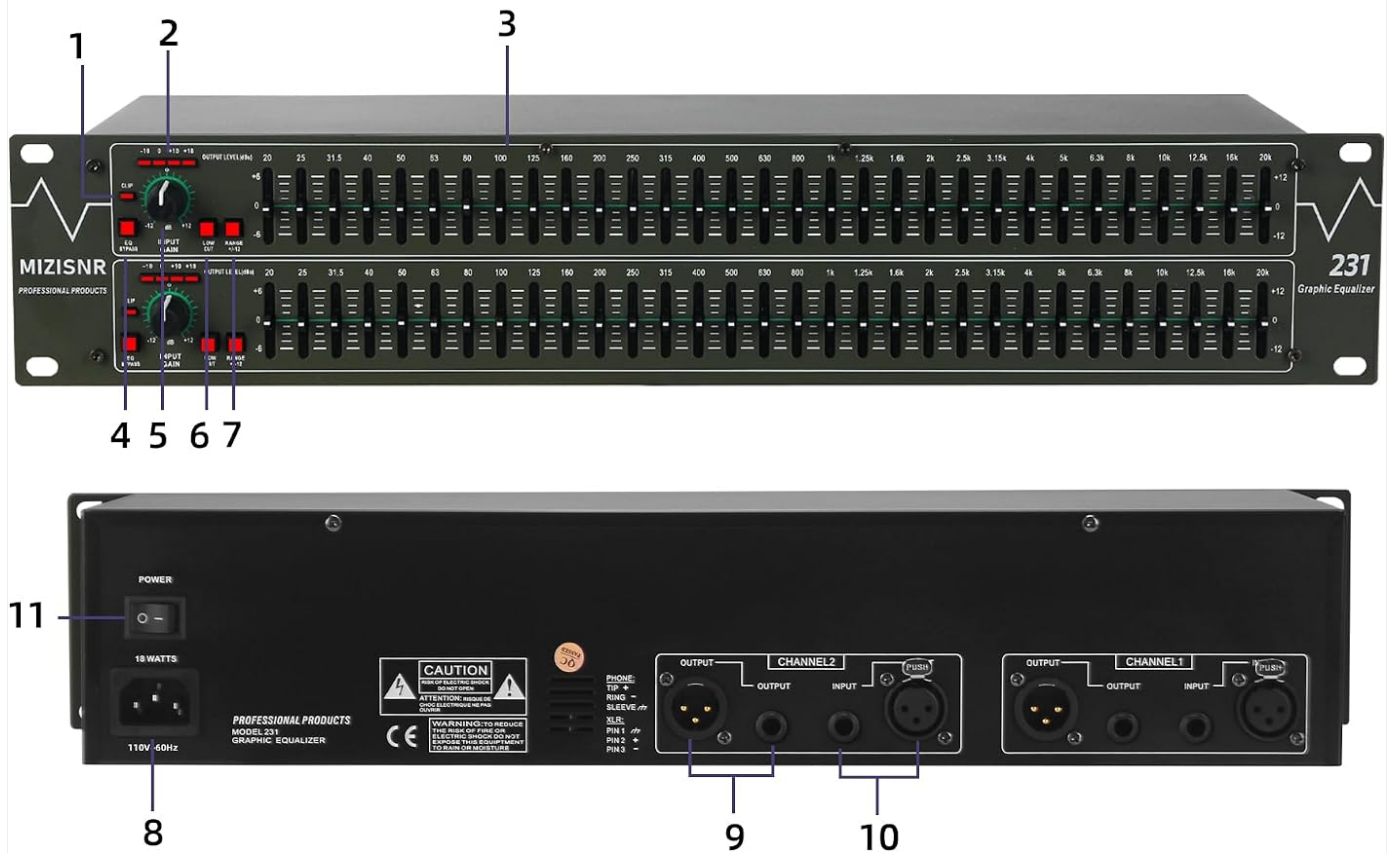


Image: Front panel view of the MIZISNR EQ-231 31-Band Graphic Equalizer, highlighting its dual-channel design.

3. PRODUCT OVERVIEW

Front Panel Controls

PRODUCT DESCRIPTION



- | | |
|---|---------------------|
| 1. CLIP button | 6. Low cut button |
| 2. 4-segment LED ladder display for monitoring output electronics | 7. Boost/Cut button |
| 3. 15-segment equalization adjustment | 8. Power socket |
| 4. Independent EQ button | 9. Output interface |
| 5. Gain adjustment | 10. Input interface |
| | 11. Power switch |

Image: Detailed diagram of the EQ-231's front and rear panels with numbered components for identification.

1. **CLIP button:** Indicates signal clipping.
2. **4-segment LED ladder display:** Monitors output electronics and gain reduction.
3. **15-segment equalization adjustment:** Sliders for precise frequency control.
4. **Independent EQ button:** Activates or deactivates the equalizer for each channel.
5. **Gain adjustment:** Controls the input gain level.
6. **Low cut button:** Activates the low-cut filter.
7. **Boost/Cut button:** Selects the $\pm 6\text{dB}$ or $\pm 12\text{dB}$ range for frequency bands.

Rear Panel Connections

8. **Power socket:** Connects to the AC power supply.
9. **Output interface:** XLR balanced and 1/4" TRS unbalanced outputs.

10. **Input interface:** XLR balanced and 1/4" TRS unbalanced inputs.
11. **Power switch:** Turns the unit on or off.

4. SETUP

Proper connection of the EQ-231 is essential for optimal audio performance. Follow these steps to integrate the equalizer into your audio system.

Connecting the Equalizer

1. Ensure all audio equipment is powered off before making connections.
2. Connect the output of your audio source (e.g., mixer, pre-amplifier, DVD player) to the **Input interface (10)** on the rear panel of the EQ-231. Use either XLR balanced or 1/4" TRS unbalanced cables as appropriate for your equipment.
3. Connect the **Output interface (9)** of the EQ-231 to the input of your power amplifier or active speakers. Again, use XLR balanced or 1/4" TRS unbalanced cables.
4. Connect the power cable to the **Power socket (8)** and then to a suitable AC power outlet.
5. Once all connections are secure, you may power on your audio system, starting with the EQ-231 via the **Power switch (11)**.

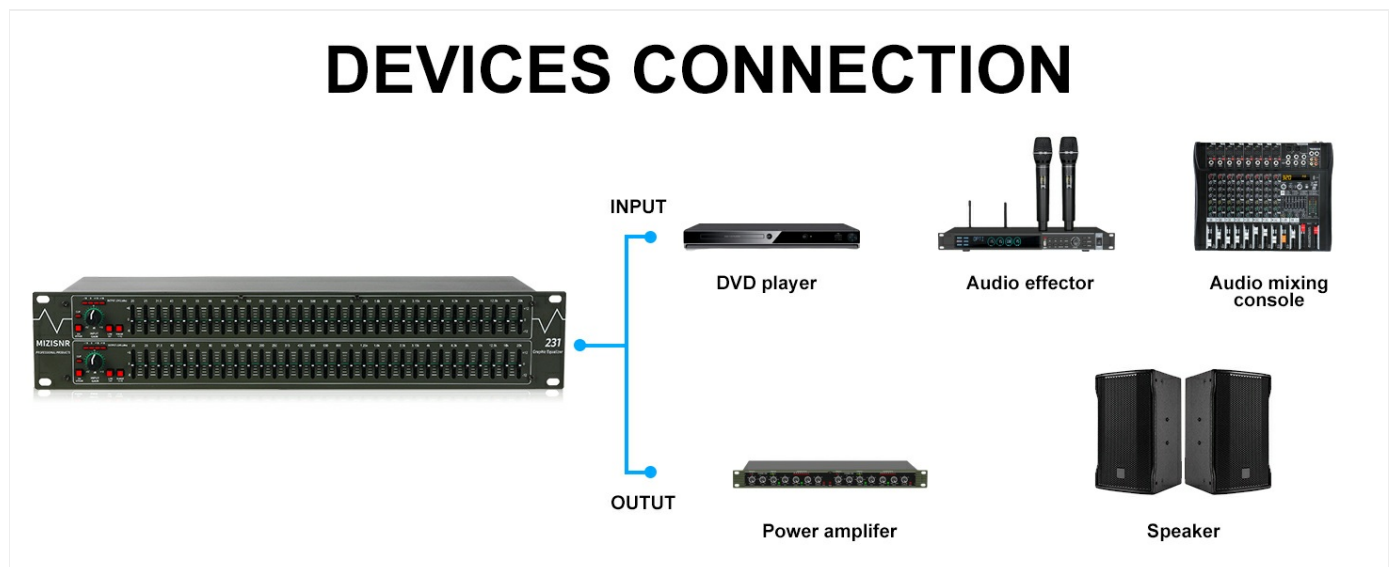


Image: Visual guide for connecting the EQ-231 to various audio devices like DVD players, audio effectors, mixers, power amplifiers, and speakers.

Setup Video Guide

Video: An official MIZISNR video demonstrating the connection process for the Graphic Equalizer 31-Band Stereo EQ for Home Audio.

5. OPERATION

The EQ-231 offers precise control over your audio frequencies. Familiarize yourself with the controls to shape your sound effectively.

Basic Equalization

- Use the **15-segment equalization adjustment sliders (3)** to boost or cut specific frequency bands. Each slider corresponds to a frequency from 20Hz to 20kHz.
- The **Boost/Cut button (7)** allows you to switch between $\pm 6\text{dB}$ and $\pm 12\text{dB}$ adjustment ranges for finer or broader control.
- Press the **Independent EQ button (4)** to engage the equalization for each channel. When the button is illuminated, the EQ is active.

DUAL CHANNEL 31-BAND EQ ADJUSTMENT

Real-time display, user-friendly operation.

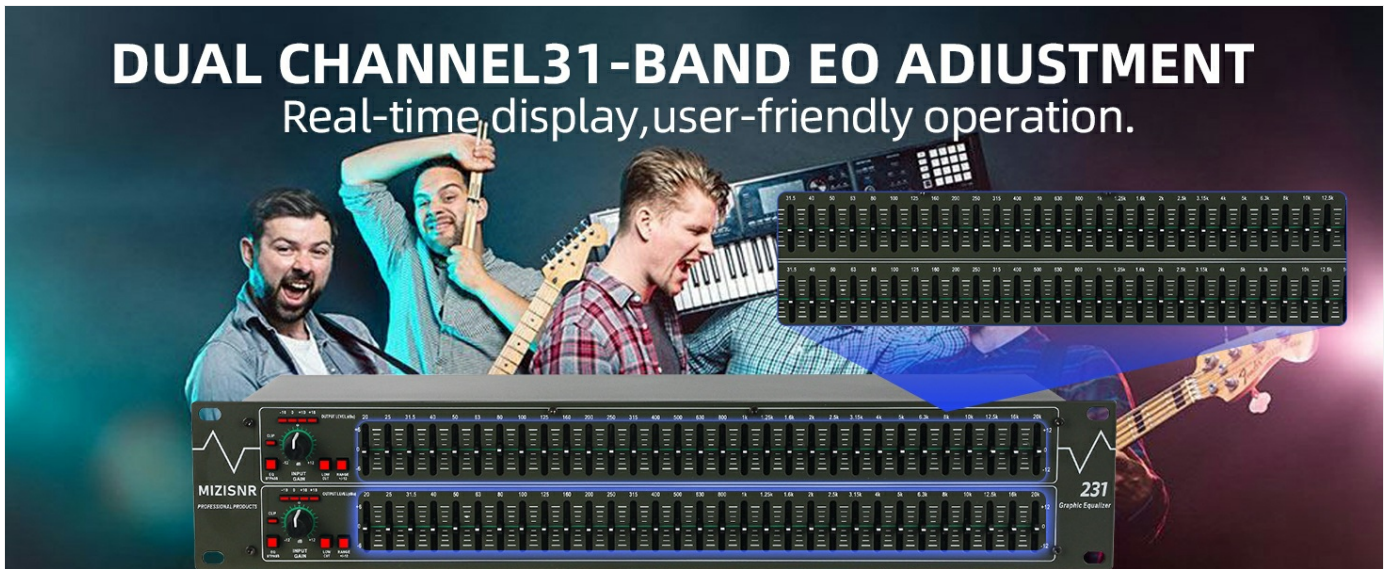


Image: The EQ-231's dual 31-band EQ sliders, demonstrating real-time display and user-friendly operation.

Gain Adjustment

- Adjust the **Gain adjustment knob (5)** to set the overall input level for each channel. Monitor the **4-segment LED ladder display (2)** to ensure the signal is not clipping.
- If the **CLIP button (1)** illuminates, reduce the input gain to prevent distortion.



Image: A hand adjusting the gain knob on the EQ-231, illustrating the ease of input level control.

Low-Cut Filter and Bypass

- Activate the **Low cut button (6)** to remove unwanted low-frequency noise such as rumble or hum. This helps in achieving a cleaner audio output.
- The **BYPASS switch** (part of the EQ button functionality) allows you to quickly compare the equalized sound with the original, unprocessed signal. This is useful for A/B testing and troubleshooting.

BYPASS & LOW-CUT SWITCH

Simplifies machine debugging and effectively attenuates unwanted sounds such as wind noise, floor rumble, electrical hum, and more.



Image: The EQ-231's Bypass and Low-Cut switches, designed to simplify debugging and attenuate unwanted sounds.

Built-in Limiter

- The EQ-231 features a built-in limiter to prevent signal peaks from exceeding a set threshold, protecting your speakers and amplifiers from overload and distortion.
- This function helps maintain a consistent output level and ensures a clean sound even during dynamic passages.

BUILT-IN LIMITER

Can cut off the interference at the top or bottom of the output waveform and also provide overload protection.

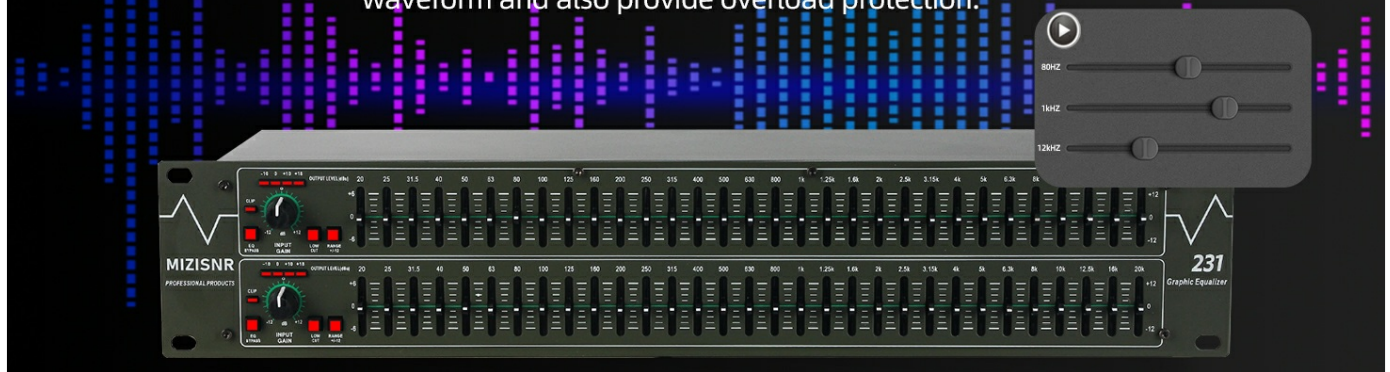


Image: Explanation of the EQ-231's built-in limiter, which cuts off interference and provides overload protection.

6. MAINTENANCE

To ensure the longevity and optimal performance of your MIZISNR EQ-231, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid abrasive cleaners, solvents, or strong chemicals, as they may damage the finish or internal components.
- **Environment:** Operate and store the equalizer in a cool, dry environment, away from direct sunlight, excessive heat, moisture, and dust.
- **Ventilation:** Ensure proper ventilation around the unit. Do not block ventilation openings.
- **Power:** Disconnect the power cable from the outlet when the unit is not in use for extended periods or during electrical storms.

7. TROUBLESHOOTING

If you encounter issues with your EQ-231, refer to the following common troubleshooting steps:

- **No Sound Output:**
 - Check all audio cable connections to ensure they are secure and correctly plugged into the input and output interfaces.
 - Verify that the EQ-231 is powered on and its power indicator is lit.
 - Ensure the Independent EQ button is engaged (illuminated) if you intend to use the equalization.
 - Check the gain adjustment knob; it might be set too low.
- **Distorted Sound:**
 - Reduce the input gain using the gain adjustment knob. The CLIP indicator should not be constantly lit.
 - Ensure that the signal coming from your audio source is not already distorted.
 - Check if any frequency bands are boosted excessively, causing clipping.
- **Hum or Noise:**
 - Ensure all cables are properly shielded and in good condition.
 - Activate the Low cut button to reduce low-frequency hum.
 - Try using a ground loop isolator if the hum persists, especially with unbalanced connections.

- Ensure power cables are not running parallel to audio cables.

• **Uneven Sound Between Channels:**

- Verify that the gain adjustment and EQ settings are symmetrical for both channels, unless intentional.
- Check the input and output cables for each channel for proper connection and integrity.

If these steps do not resolve the issue, please contact MIZISNR customer support for further assistance.

8. SPECIFICATIONS

Detailed technical specifications for the MIZISNR EQ-231 Graphic Equalizer:

PRODUCT PARAMETERS



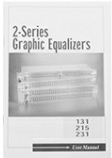
18.9in (480mm)
(231)

5.78in(147mm)

3.5in (89mm)



(Power supply)



(Manual)



(Package)

Input impedance: 22KΩ

Freg response: 20Hz~20KHz +0/-12db

Equal gain:+12dB/-12dB

Signal ratio: >90db

Output impedance:200Ω

Balanced paragraph: double 15 sections

Total resonance wave distortion: 0.05%(1kHz)

Working voltage: 110V/60Hz

Image: Visual representation of the EQ-231's dimensions and key technical specifications.

Item Weight	6.69 pounds
Product Dimensions	5.78 x 18.9 x 3.5 inches
Item Model Number	231
Input Impedance	22KΩ
Frequency Response	20Hz-20KHz +/- 12dB
Equal Gain	+/-12dB / -12dB
Signal Ratio	>90dB
Output Impedance	200Ω
Balanced Paragraph	Double 15 sections
Total Resonance Wave Distortion	0.05%(1KHz)
Working Voltage	110V/60Hz

9. WARRANTY & SUPPORT

MIZISNR products are designed for reliability and performance. For warranty information and technical support, please refer to the

documentation included with your purchase or visit the official MIZISNR website. Keep your proof of purchase for any warranty claims.

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

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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