

MIZISNR T102-FX

Digital Equalizer T102-FX User Manual

Model: T102-FX | Brand: MIZISNR

Professional 31 Band Dual Channel Graphic Equalizer for Home Stereo Audio System

1. INTRODUCTION

Thank you for purchasing the MIZISNR T102-FX Digital Equalizer. This professional-grade 31-band dual-channel graphic equalizer is designed to provide precise audio control for home stereo systems, studios, live stages, and broadcast environments. Featuring PC tuning, advanced noise reduction, and a spectrum analyzer display, the T102-FX offers unparalleled sound shaping capabilities. Please read this manual thoroughly before operation to ensure proper use and to maximize the performance of your device.

2. SAFETY INFORMATION

- **Power Source:** Connect the unit only to the specified power supply (AC90-240V, 50/60Hz). Ensure the power cord is securely connected and not damaged.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the unit to prevent overheating.
- **Moisture:** Do not expose the unit to rain, moisture, or excessive humidity. Keep liquids away from the device.
- **Servicing:** Do not attempt to service this unit yourself. Refer all servicing to qualified service personnel.
- **Placement:** Place the unit on a stable, level surface. Avoid placing it near heat sources or in direct sunlight.

3. PACKAGE CONTENTS

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

- 1x MIZISNR T102-FX Digital Equalizer
- 1x Power Cord
- 1x USB Cable (for PC connection)
- 1x Operation Manual

PACKAGE LIST



6.88in/
17.5cm

18.97in/
48.2cm

1.77in/
4.49cm



1X Power Cord



1X Operation Manual

Power supply:90-240V

Frequency response:80Hz-15kHz

Acoustic gain:1dB or 11dB

Signal to noise ratio:82dB

Line input impedance:15KΩ

Powerconsumption:30W

Line output impedance:300Ω

Figure 3.1: Included items in the MIZISNR T102-FX package, featuring the equalizer, power cord, and user manual.

4. PRODUCT OVERVIEW

The MIZISNR T102-FX is a 1U rack-mountable unit designed for professional audio environments. It features

a clear LED display and intuitive controls for easy operation.

4.1 Front Panel Description

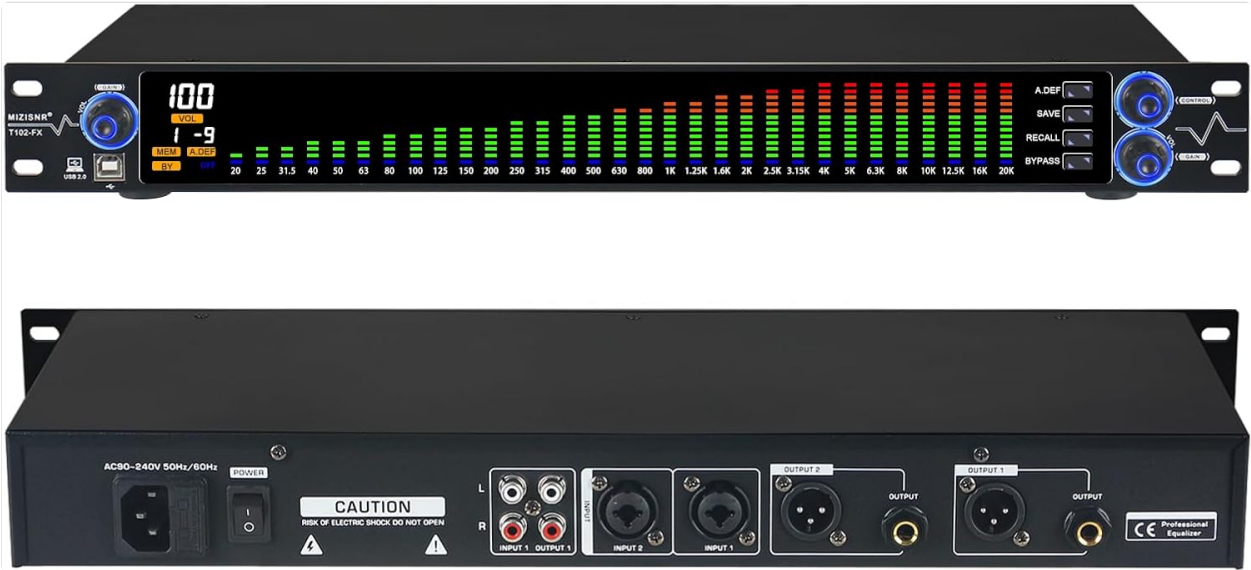
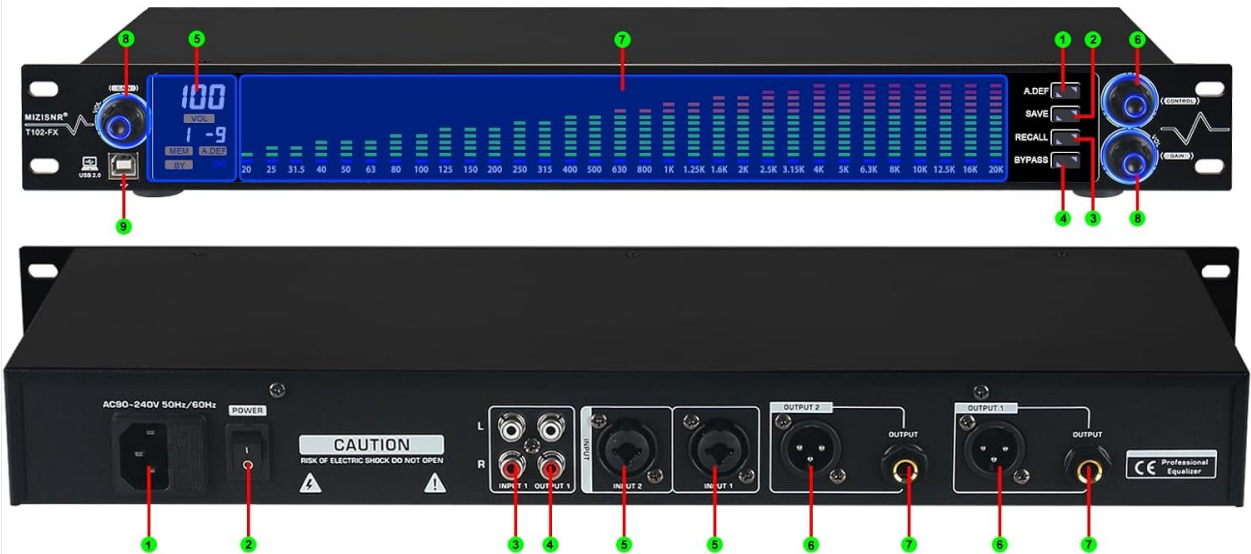


Figure 4.1: Front and rear view of the T102-FX equalizer.

BUTTON INTERFACE DESCRIPTION



1.A.DEF	8.GAIN	1.Power interface
2.SAVE	9.PC data port	2.POWER
3.RECALL		3.INPUT
4.EQ BYPASS		4.OUTPUT
5.LCE		5.INPUTI/INPUT2
6.CONTROL		6.OUTPUT1/ OUTPUT2
7.20db-20k		7.OUTPUTIOUTPUT

Figure 4.2: Front and Rear Panel Interface Description.

1. **A.DEF Button:** Activates the default setting.
2. **SAVE Button:** Saves current EQ settings to a preset.
3. **RECALL Button:** Recalls saved EQ presets.
4. **EQ BYPASS Button:** Toggles the equalizer effect on/off.
5. **LCE:** (Likely LCD/LED Display) Large LED liquid crystal display for real-time parameter monitoring.
6. **CONTROL Knob:** Multi-function rotary encoder for navigation and adjustment.
7. **20db-20k:** Frequency band indicators for the 31-band equalizer.
8. **GAIN:** Gain control for input/output levels.
9. **PC Data Port (USB 2.0):** For connecting to a computer for PC tuning.

4.2 Rear Panel Description

1. **Power Interface:** AC power input.
2. **POWER Switch:** Main power on/off switch.
3. **INPUT (XLR & RCA):** Dual-channel analog (L/R) and XLR input connectors.
4. **OUTPUT (XLR & TRS):** XLR and TRS balanced output ports.
5. **INPUT1/INPUT2:** Specific input channels.
6. **OUTPUT1/OUTPUT2:** Specific output channels.
7. **OUTPUT:** General output ports.

4.3 Key Features

- **Precision 31-Band DSP Equalization:** Fine-tune audio frequencies with individual band control.
- **PC Tuning Capability:** Seamlessly adjust settings via intuitive PC software.
- **LED Display:** Large, clear display for easy navigation and real-time parameter visibility.
- **10 Preset EQ Modes:** Built-in presets for various audio scenarios (music, vocals, speech).
- **EQ Bypass Option:** Instantly compare processed and unprocessed sound.
- **Advanced Noise Reduction:** 7-band noise suppression system (-3dB to -9dB reduction).
- **Versatile Connectivity:** XLR, TRS, and RCA input/output options for broad compatibility.
- **1U Rack Mount Design:** Space-saving chassis for professional setups.

5. SETUP

5.1 Physical Installation

The T102-FX is designed for 1U rack mounting. Secure the unit into a standard 19-inch audio rack using appropriate rack screws. Ensure there is sufficient space for ventilation around the unit.

VERSATILE CONNECTIVITY OPTIONS

input/output with 6.35mm, balanced XLR, and RCA ports for flexible integration

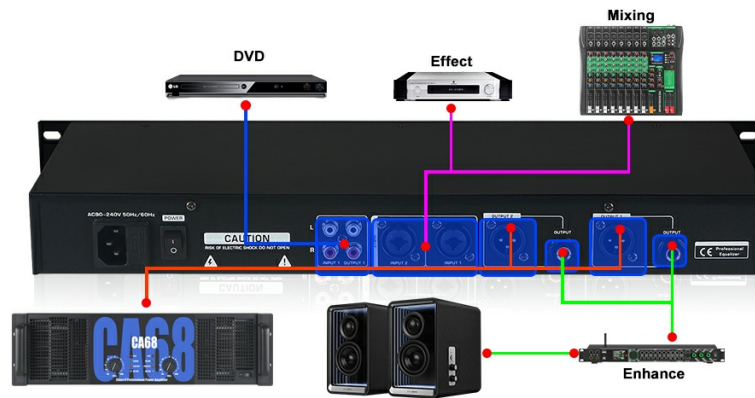


Figure 5.1: T102-FX installed in a standard audio rack.

5.2 Audio Connections

The T102-FX offers versatile input and output options. Connect your audio sources and destinations as follows:

- **Inputs:** Use XLR or RCA (L/R) cables to connect your audio source (e.g., mixer, pre-amp, DVD player) to the INPUT ports on the rear panel.
- **Outputs:** Use XLR or TRS balanced cables to connect the OUTPUT ports to your amplifier, powered speakers, or other audio processing equipment.

VERSATILE CONNECTIVITY OPTIONS

input/output with 6.35mm, balanced XLR, and RCA ports for flexible integration

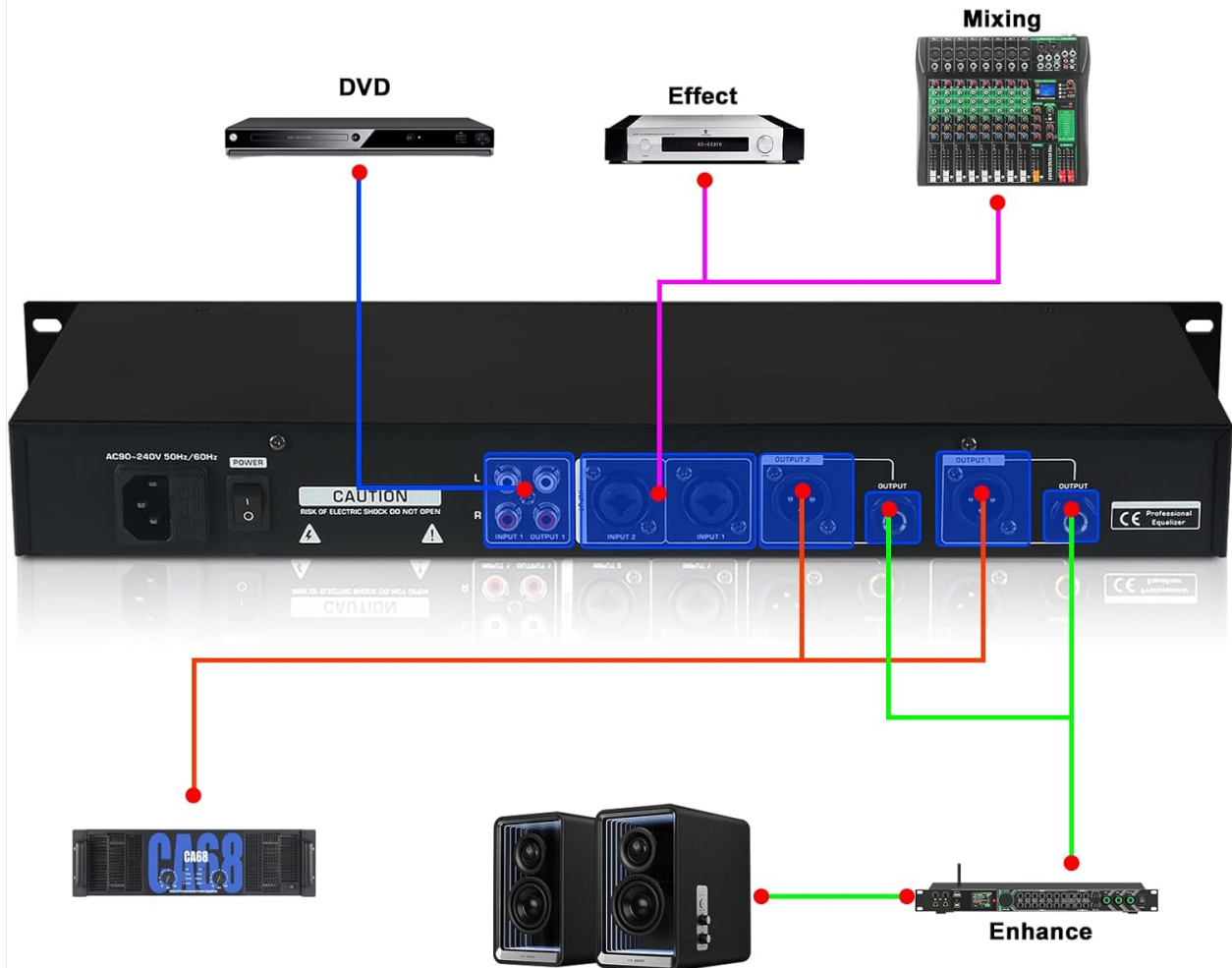


Figure 5.2: Example audio connection diagram.

5.3 PC Software Installation (Optional)

For advanced tuning and control, you can connect the T102-FX to a computer via the USB 2.0 port. The necessary PC software can typically be found on the manufacturer's website or provided on a USB drive with the product. Follow the on-screen instructions for installation.

CONCISE PC TUNING INTERFACE

simple and intuitive interface, easy for both beginners and experts.



Figure 5.3: PC Tuning Interface.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

After making all necessary connections, plug the power cord into a suitable AC outlet. Flip the POWER switch on the rear panel to the "ON" position. The LED display will illuminate, indicating the unit is ready for operation.

6.2 EQ Adjustment (31-Band)

The T102-FX features a 31-band graphic equalizer. Use the CONTROL knob and navigation buttons on the front panel to select and adjust individual frequency bands. The LED display will show the current settings and spectrum analysis.



Figure 6.1: Adjusting the 31-band equalizer for optimal sound.

6.3 Using Preset EQ Modes

The unit comes with 10 built-in EQ presets (1-10) tailored for different audio applications. To select a preset:

1. Press the **RECALL** button.
2. Rotate the **CONTROL** knob to browse through the 10 available modes (1-10).
3. Confirm your selection by pressing the **RECALL** button again. The display will show the activated mode.

10 PROFESSIONAL PRESET EFFECTS

10 preset effect adjustments for instant inspiration
and easy sound tuning anytime, anywhere.

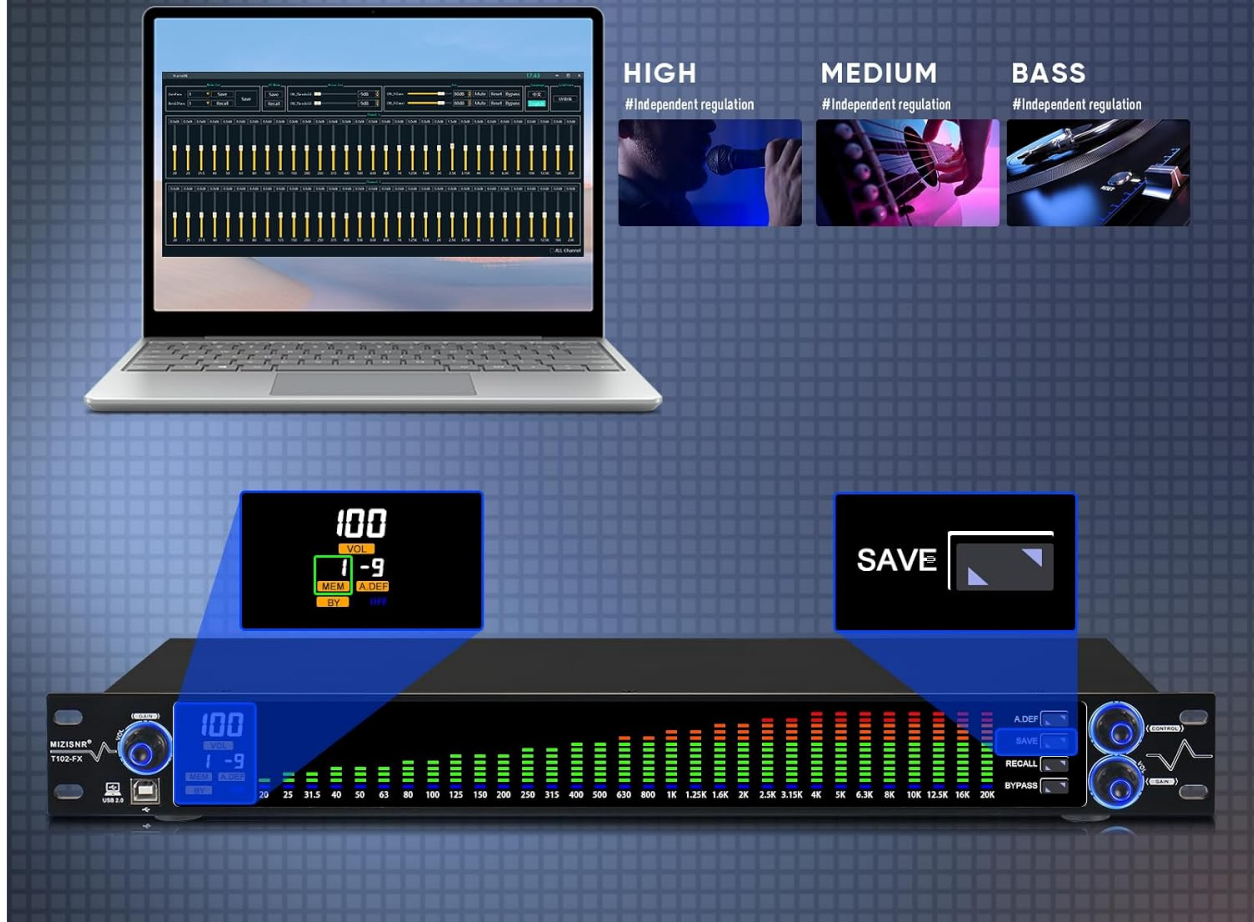


Figure 6.2: Utilizing the 10 professional preset effects.

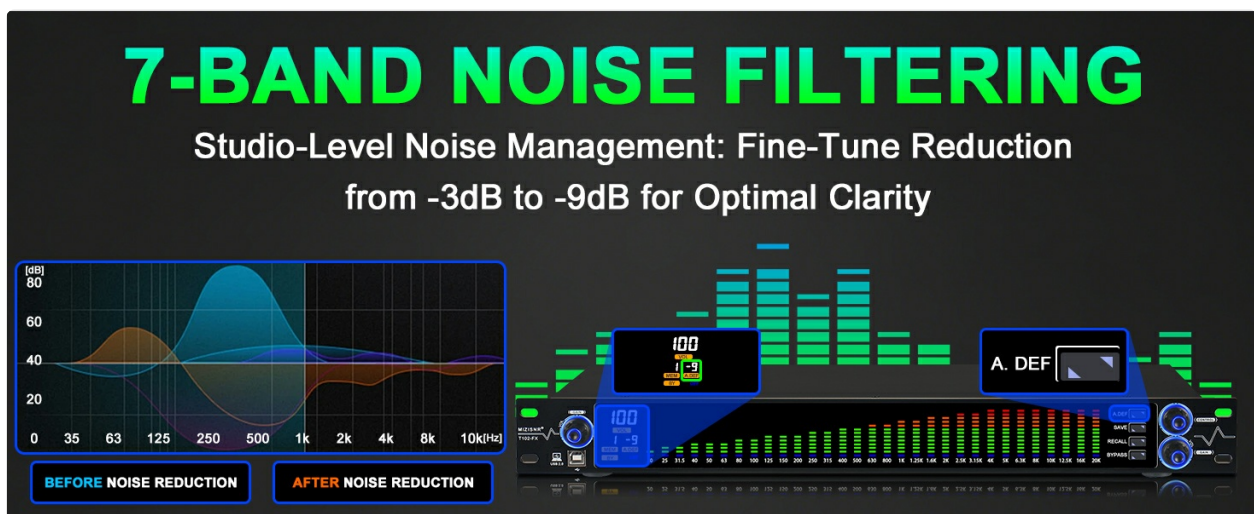


Figure 6.3: Quick mode recall process.

6.4 Noise Reduction

The T102-FX features a 7-band noise suppression system. This function helps eliminate background noise while preserving signal integrity. Adjust the noise reduction level from -3dB to -9dB as needed to achieve

optimal clarity.

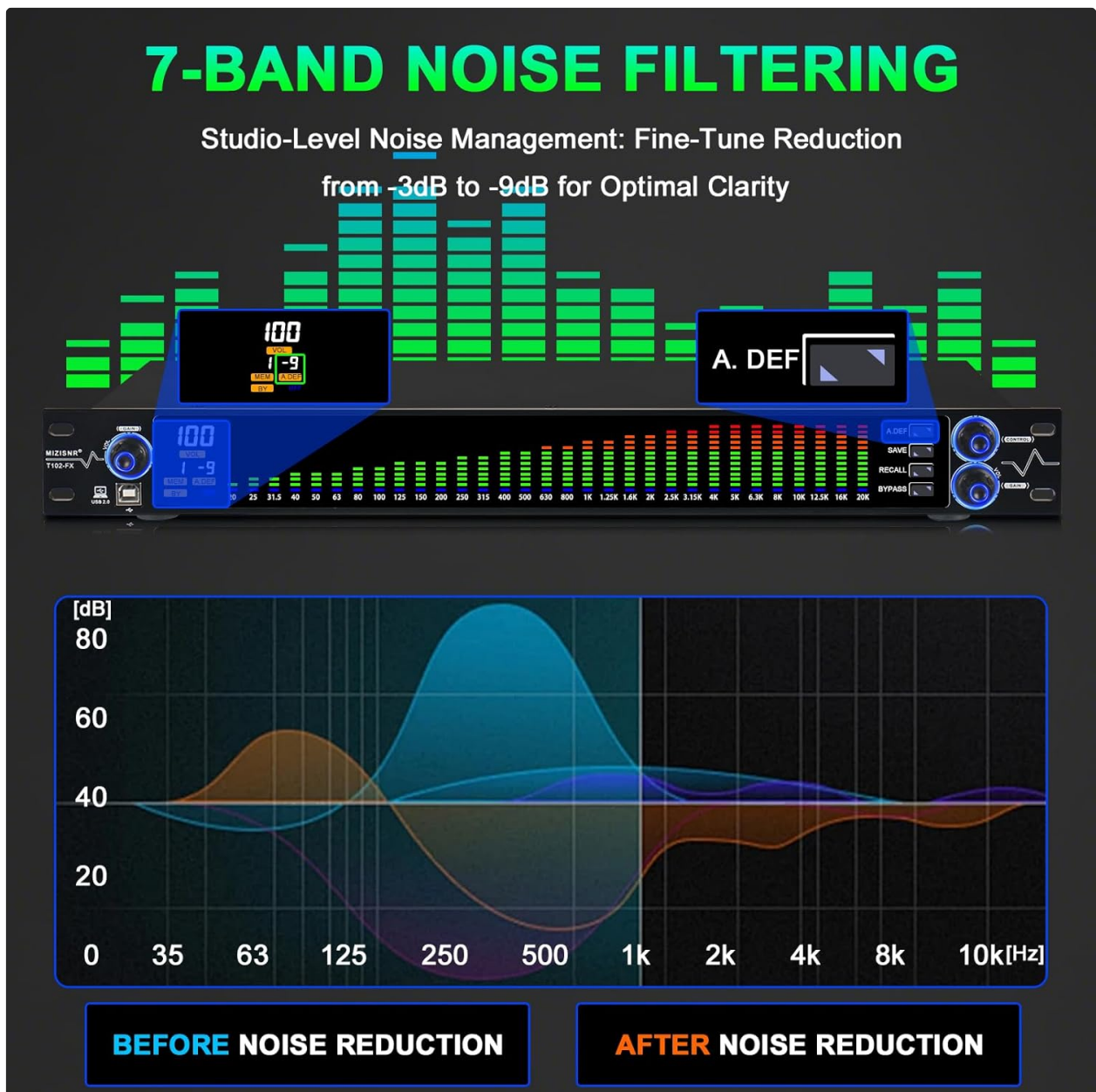


Figure 6.4: Noise reduction effect visualization.

6.5 EQ Bypass Function

The EQ BYPASS function allows you to quickly compare the sound with and without equalization applied. This is useful for A/B testing or for situations where a flat signal is desired.

- **ON State:** Press the **EQ BYPASS** button. The screen will display "NO", indicating that bypass mode is active and the signal passes through without any EQ adjustments.
- **OFF State:** Press the **EQ BYPASS** button again. The screen will show "OFF", disabling the bypass function and reactivating frequency band control.

[BYPASS] SIGNAL DIRECT MODE

ON State:

Press the **[BYPASS]** button, and the screen will display "NO", indicating that bypass mode is active — the signal passes through without any EQ adjustments.

OFF State:

Press the **[BYPASS]** button again, and the screen will show "OFF", disabling the bypass function and reactivating frequency band control.

Figure 6.5: EQ Bypass mode operation.

6.6 Saving and Recalling Settings

You can save your custom EQ settings to one of the available memory slots. Use the **SAVE** button to store your current configuration and the **RECALL** button to load previously saved settings.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or aerosols.
- **Storage:** If storing the unit for an extended period, disconnect it from power and store it in a cool, dry place away from direct sunlight.
- **Ventilation:** Regularly check that the ventilation openings are clear of dust and debris.

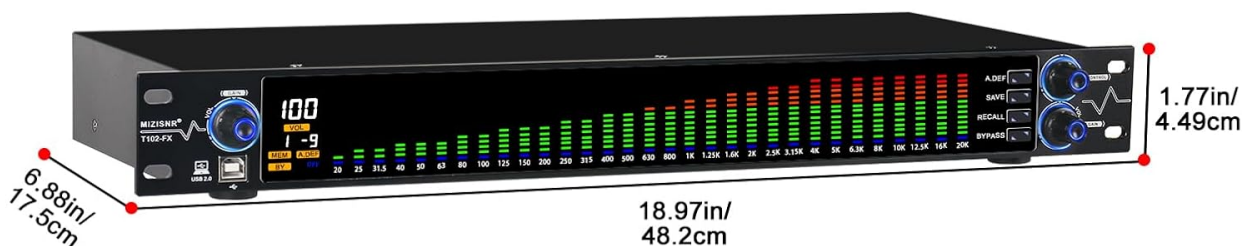
8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cord disconnected; Power switch off; Outlet malfunction	Check power cord connection; Ensure power switch is ON; Test outlet with another device
No sound output	Incorrect audio connections; EQ Bypass active; Volume too low; Source device issue	Verify all audio cables are correctly connected; Deactivate EQ Bypass; Increase volume on equalizer and connected devices; Check audio source
Distorted sound	Input/output levels too high; Incorrect EQ settings; Damaged cables	Reduce input/output gain; Reset EQ settings or use a preset; Replace audio cables
PC software not connecting	USB cable issue; Driver not installed; Software not running	Try a different USB cable; Install necessary drivers from manufacturer's website; Ensure software is open and running

9. SPECIFICATIONS

Feature	Specification
Model Number	T102-FX
Equalizer Bands	31-Band DSP (Dual Channel)
Power Supply	AC90-240V, 50/60Hz
Frequency Response	80Hz-15kHz
Acoustic Gain	1dB or 11dB
Signal to Noise Ratio	82dB
Line Input Impedance	15KΩ
Line Output Impedance	300Ω
Power Consumption	30W
Product Dimensions (L x W x H)	18.97 x 6.88 x 1.77 inches (48.2 x 17.5 x 4.49 cm)
Item Weight	5.54 pounds
Color	Black

PACKAGE LIST



1X Power Cord



1X Operation Manual

Power supply:90-240V

Frequency response:80Hz-15kHz

Acoustic gain:1dB or 11dB

Signal to noise ratio:82dB

Line input impedance:15K Ω

Powerconsumption:30W

Line output impedance:300 Ω

Figure 9.1: Product dimensions and key specifications.

10. WARRANTY AND SUPPORT

MIZISNR products are designed and manufactured to the highest quality standards. This product comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official MIZISNR website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or any inquiries regarding your MIZISNR T102-FX Digital Equalizer, please contact MIZISNR customer support through the following channels:

- **Website:** Visit the [MIZISNR Store on Amazon](#)
- **Email:** Refer to your product registration or warranty information for direct email support.
- **Phone:** Check the MIZISNR official website for regional support phone numbers.

When contacting support, please have your product model number (T102-FX) and purchase details ready.

