

MICNAUX 2U-31BAND

MICNAUX 2U-31BAND 31-Band Digital Equalizer Instruction Manual

Professional Dual Channel Graphic Equalizer with PC Tuning, Spectrum Analyzer Display & Noise Reduction

1. PRODUCT OVERVIEW

The MICNAUX 2U-31BAND Digital Equalizer is designed for precise audio control in home stereo, studio, and live sound environments. It offers dual-channel 31-band equalization, real-time spectrum analysis, and advanced noise reduction features.

Key Features:

- **Versatile Connectivity:** Features balanced XLR, stereo L/R, and TRS ports for compatibility with various audio equipment.
- **Dual-Channel 31-Band EQ:** Provides detailed frequency control for left and right audio channels, with PC software for fine-tuning.
- **Real-Time LED Display:** Large LED screen for effortless monitoring and adjustment of settings.
- **Dynamic Sound Shaping:** Includes 10 built-in EQ presets and a bypass mode for quick comparisons.
- **Advanced DSP Noise Reduction:** Minimizes ambient distractions with adjustable noise suppression (-3dB to -9dB).

PROFESSIONAL 31-BAND EQ TUNING



PC TUNING



10 PRESETS



31-BAND SPECTRUM



BYPASS



7-LEVEL NOISE REDUCTION



MULTI-INTERFACE

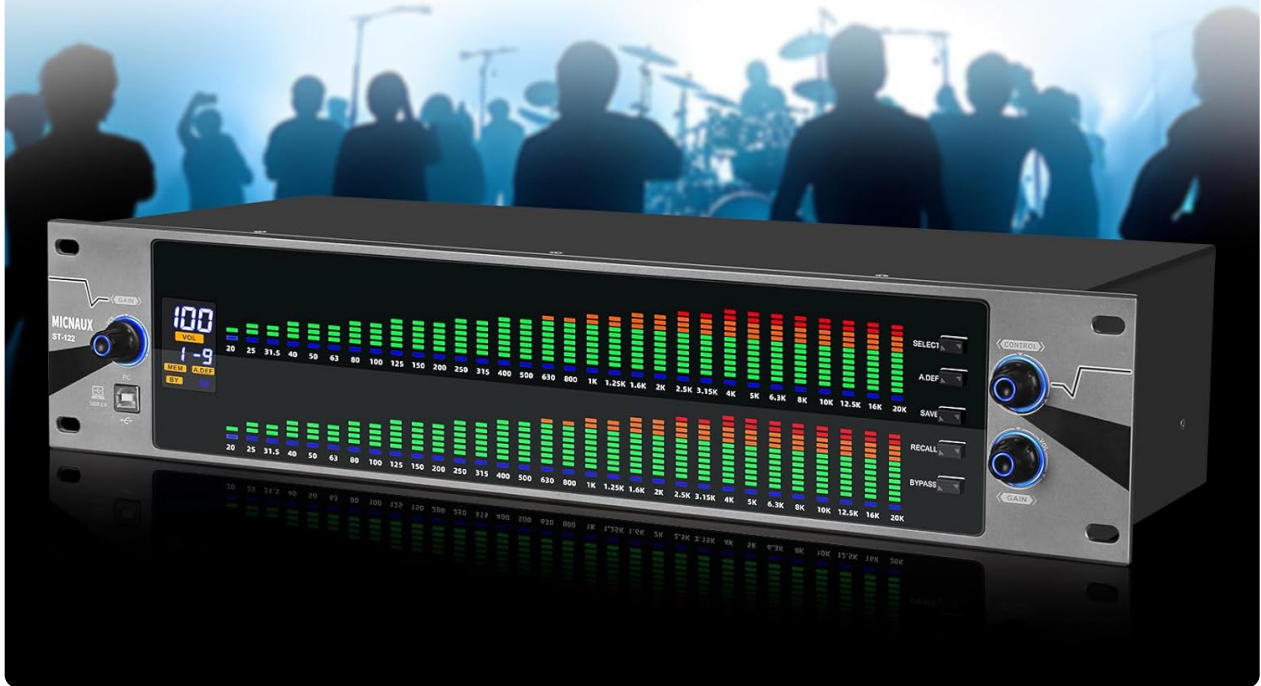


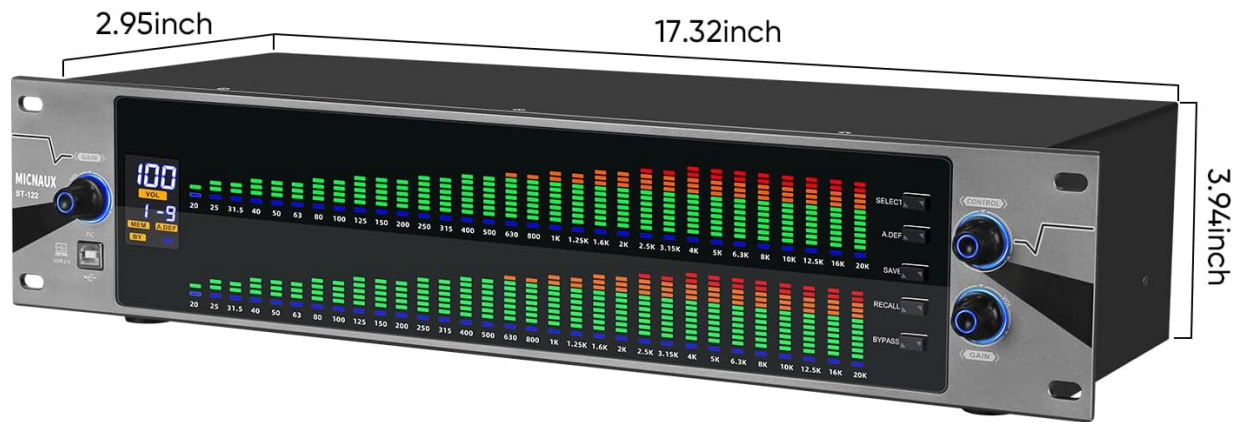
Figure 1: Front panel overview of the MICNAUX 31-Band Digital Equalizer, highlighting PC tuning, 10 presets, 31-band spectrum, bypass, 7-level noise reduction, and multi-interface capabilities.

2. SETUP

2.1 Unpacking and Inspection

Carefully remove the equalizer from its packaging. Inspect the unit for any signs of damage during transit. Ensure all accessories are present, including the power cord, PC interface cable, and operation manual.

PRODUCT DIMENSIONS & ACCESSORIES



Weight: 5.73 lb



Figure 2: Product dimensions (17.32"L x 2.95"W x 3.94"H, Weight: 5.73 lb) and included accessories: Power Cord, PC interface cable, and Operation Manual.

2.2 Connecting the Equalizer

The equalizer supports various input/output options for flexible integration into your audio system. Use balanced XLR, TRS, or L/R RCA connections as appropriate for your setup.

COMPATIBLE WITH MULTIPLE INTERFACES

Dual-channel I/O with 6.35mm & balanced connections, plus RCA inputs/outputs

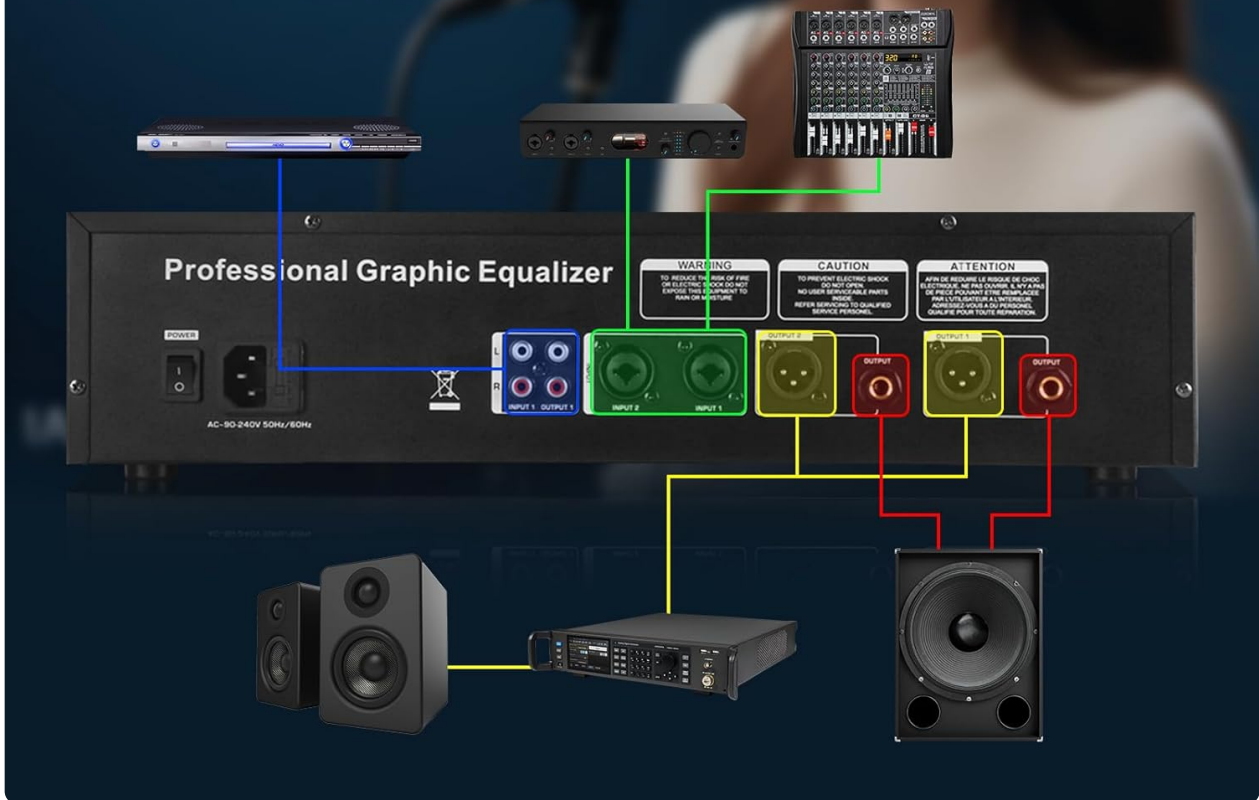


Figure 3: Rear panel connections including dual-channel I/O with 6.35mm and balanced XLR connections, plus RCA inputs/outputs, compatible with mixers, power amplifiers, and speakers.

Video 1: Demonstrates the connection process of the MICNAUX 31-Band Digital Equalizer to a home audio system, showing how to connect input and output cables to a mixer and amplifier.

Video 2: Provides a visual guide on setting up the 31-Band Digital Equalizer for a home stereo audio system, including cable connections and initial power-up.

3. OPERATING INSTRUCTIONS

3.1 Basic Controls and Display

The equalizer features a large LED display for real-time monitoring of frequency bands and settings. Use the control knobs and buttons on the front panel for adjustments.

LIVE 31-BAND EQ MONITOR

Real-time monitoring for premium sound



Bass:20-250Hz



Midrange:315-2.5KHz



Treble:3.15-20KHz

Rotate either the left or right [GAIN] knob to adjust volume

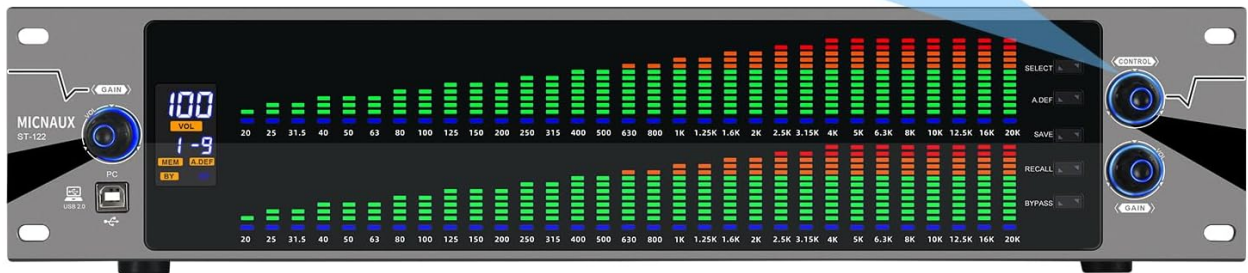


1.Press the [GAIN] knob to enter frequency band adjustment mode

2.Rotate [GAIN] to select frequency bands

3.Adjust levels with [CONTROL]

4.Press [GAIN] again to return to band selection



SPECTRUM INDICATOR STATUS:

Blue light (steady) – normal

Green light – normal

Yellow light – warning

Red light – critical

Figure 4: Instructions for live 31-band EQ monitoring, detailing how to use the GAIN and CONTROL knobs to adjust bass (20-250Hz), midrange (315-2.5KHz), and treble (3.15-20KHz) levels. Spectrum indicator status is also shown (Blue: normal, Green: normal, Yellow: warning, Red: critical).

3.2 Presets and Audio Modes

Utilize the 10 built-in EQ presets to quickly optimize your audio for different performance types. The unit also supports three audio modes (L/R/Stereo) for flexible channel control.

10 PRESETS & 3 AUDIO MODES (L/R/STEREO)

Adjust your perfect sound



1. Lightly press [SAVE]
2. Use [CONTROL] to pick a slot (1-10)
3. Press [SAVE] again to store
4. Press [RECALL], turn knob to select mode (1-10), then press [RECALL] again to activate

- [SELECT] Adjustment selection key
- Mode 1: Adjust left channel separately
 - Mode 2: Adjust right channel separately
 - Mode 3: Synchronously adjust left & right channels



Figure 5: Guide to using 10 presets and 3 audio modes (L/R/Stereo). Instructions for saving and recalling presets (1-10) are provided, along with selection key modes for adjusting left, right, or synchronized channels.

3.3 Noise Reduction

The integrated DSP noise reduction system allows for precise control between -3dB and -9dB, minimizing background noise while preserving audio clarity.

7-BAND NOISE REDUCTION

Professional-Grade Noise Control:
Precisely Adjust Between -3dB to -9dB for Any Environment

1. Press [A.DEF] to activate noise reduction mode

2. Rotate [CONTROL] to select level (-3 to -9)

3. Press [A.DEF] again to confirm your selection



Figure 6: Steps to activate and adjust the 7-band noise reduction mode, allowing selection of levels between -3 and -9 using the [CONTROL] knob and confirming with [A.DEF].

3.4 Bypass Function

The bypass function allows for quick A/B comparisons between processed and raw audio signals, aiding in accurate sound referencing.

[BYPASS] DIRECT PASS FUNCTION



Press the **[BYPASS]** button, and the screen will display "ON" , indicating the current status is bypass mode, where the machine operates without any frequency band value adjustments



Press the **[BYPASS]** button again, and the screen will display "OFF" , meaning the bypass function is deactivated

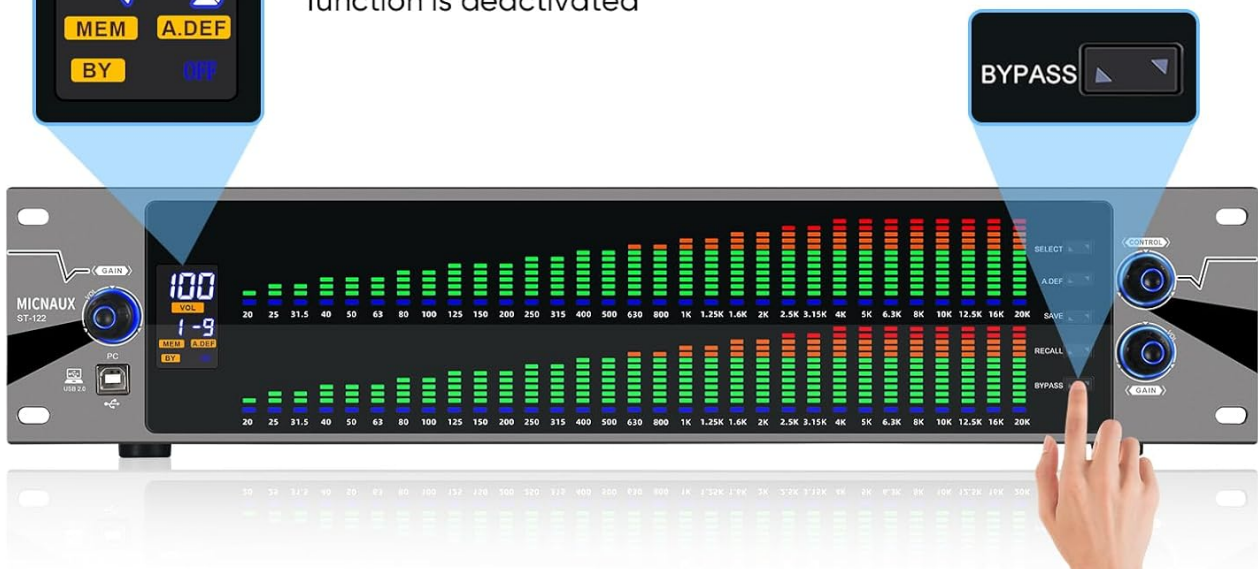


Figure 7: Explanation of the [BYPASS] direct pass function, indicating how pressing the button toggles between 'ON' (bypassing frequency adjustments) and 'OFF' (deactivating bypass).

3.5 PC Tuning

Fine-tune your equalizer settings using the included PC software for detailed control over each frequency band.

REAL-TIME COMPUTER DEBUGGING

The software design has a clean interface,
is easy to adjust, and user-friendly



Figure 8: The equalizer connected to a computer, demonstrating real-time computer debugging via software with a clean and user-friendly interface for precise adjustments.

Video 3: Illustrates the dual-channel synchronized control of the 31-Band Digital Equalizer, including adjustments and PC tuning capabilities.

Video 4: Shows the professional 31-Band Digital Equalizer in operation, demonstrating its features for home audio systems.

Video 5: Demonstrates the 31-Band Dual Channel Synchronized Control Audio Equalizer, highlighting its real-time adjustments and display.

4. MAINTENANCE

To ensure optimal performance and longevity of your MICNAUX 2U-31BAND Digital Equalizer, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid abrasive cleaners or solvents that could damage the finish or internal components.

- **Ventilation:** Ensure the unit has adequate ventilation to prevent overheating. Do not block ventilation openings.
- **Storage:** When not in use for extended periods, store the equalizer in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Connections:** Periodically check all cable connections for secure fit. Loose connections can lead to signal loss or interference.

5. TROUBLESHOOTING

If you encounter issues with your MICNAUX 2U-31BAND Digital Equalizer, refer to the following common troubleshooting steps:

- **No Power:** Ensure the power cable is securely connected to both the equalizer and a working power outlet. Check the power switch on the rear panel.
- **No Sound Output:** Verify all audio input and output cables are correctly connected. Check the input source and output device (e.g., amplifier, speakers) for proper operation. Ensure the equalizer is not in bypass mode and volume levels are appropriately set.
- **Distorted Sound:** Check for proper gain staging throughout your audio chain. Reduce input or output levels if clipping indicators are active. Ensure cables are not damaged.
- **Hum or Noise:** Ensure all connections are secure and properly grounded. Try isolating the equalizer from other electronic devices to identify potential interference sources. The built-in noise reduction feature can also be adjusted.
- **PC Software Connection Issues:** Verify the PC interface cable is correctly connected to both the equalizer and your computer. Ensure the software is installed correctly and drivers are up to date.

6. SPECIFICATIONS

Feature	Specification
Item Weight	7.33 pounds
Product Dimensions	17.32 x 2.95 x 3.94 inches
Item Model Number	2U-31BAND
Body Material	Metal
Color Name	Grey
Connector Type	XLR, TRS, L/R
Signal Format	Digital
Power Source	Corded Electric

Feature	Specification
Voltage	110 Volts (AC)
Controls Type	Knob

7. WARRANTY AND SUPPORT

MICNAUX stands behind its products with responsive customer service and clear technical guidance. For any assistance with setup, software use, or advanced features, please contact our support team.

Your satisfaction is our priority. Reach out anytime with confidence for reliable support and hassle-free assistance.

Protection plans are available for extended coverage:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect (monthly plan covering eligible past and future purchases)