

## ERICAT E550

# ERICAT Music Spectrum Equalizer E550 Instruction Manual

## 1. INTRODUCTION

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Thank you for choosing the ERICAT Music Spectrum Equalizer E550. This device is designed to enhance your audio experience by providing precise control over sound frequencies, offering automatic noise reduction, and delivering high-definition sound quality. This manual provides essential information for the safe and effective use of your equalizer.

## 2. SAFETY INFORMATION

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- Read all instructions carefully before operating the device.
- Do not expose the unit to rain, moisture, or extreme temperatures.
- Ensure proper ventilation to prevent overheating.
- Use only the specified power supply (110-240V).
- Do not open the casing; refer all servicing to qualified personnel.
- Keep out of reach of children.

## 3. PRODUCT OVERVIEW

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The ERICAT E550 is a dual 22-band graphic equalizer, offering precise control over your audio spectrum. It features a user-friendly interface with a large LED screen and intuitive controls.

### 3.1 Key Features

- Dual 22-band design with  $\pm 12$ dB adjustment range per band.
- 10 preset sound effects for quick recall.
- Automatic noise reduction function.
- Independent adjustment of high, medium, and low frequencies.
- Real-time signal indication with flashing LEDs on faders.

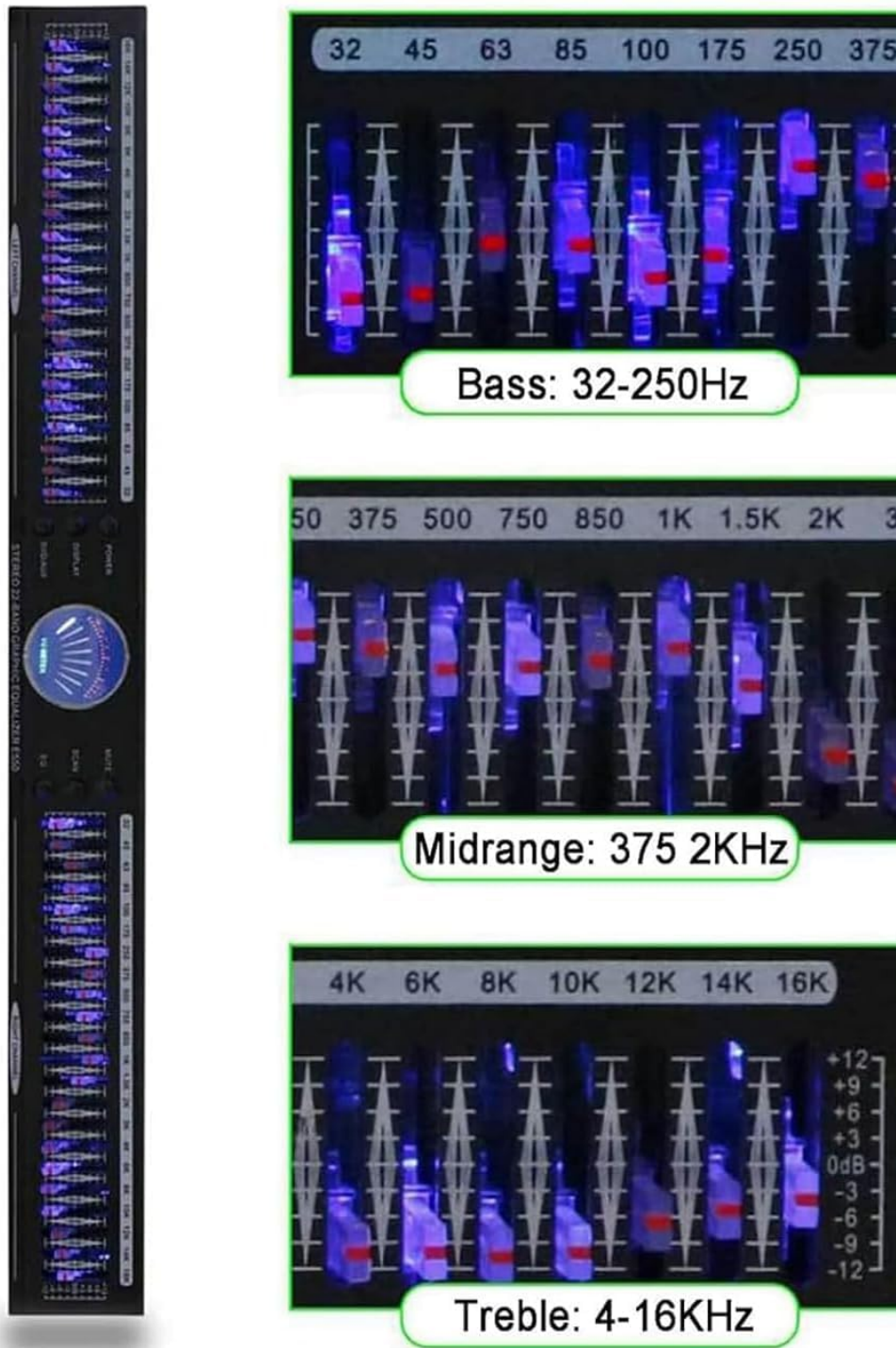
### 3.2 Components and Controls

Dual 22-band equalizer, supports 32HZ~16KHz range width  
Each fader has a light group indication, real-time change is accurate



**Figure 1:** Front view of the ERICAT Music Spectrum Equalizer E550, showing the dual 22-band faders with LED indicators and central display. Each fader has a light group indication for real-time accuracy.

dual 22-segment fader flashing lights, the signal strength of each segment of treble/midrange/bass can be seen at a glance, helping you to easily adjust the parameter effect you want



**Figure 2:** Detailed view of the fader segments, illustrating the adjustable frequency ranges for Bass (32-250Hz), Midrange (375-2KHz), and Treble (4-16KHz). The dual 22-segment fader flashing lights show the signal strength of each segment.



**Figure 3:** This graphic highlights the core benefits of the equalizer: enabling fine adjustment of audio, improving overall sound quality, reducing noise impact for clearer audio, and outputting high-definition sound.

## 4. SETUP INSTRUCTIONS

1. **Unpacking:** Carefully remove the equalizer from its packaging. Verify that all components listed in the package contents are present.
2. **Placement:** Place the equalizer on a stable, flat surface with adequate ventilation. Ensure it is away from direct sunlight, heat sources, and moisture.
3. **Power Connection:** Connect the power cable to the equalizer's power input and then to a suitable 110-240V AC power outlet. Do not power on the unit yet.
4. **Audio Input/Output:**
  - Connect your audio source (e.g., mixer, CD player, computer) to the equalizer's input jacks (e.g., RCA, XLR, or 1/4" TRS, depending on model).
  - Connect the equalizer's output jacks to your amplifier or powered speakers.
5. **Initial Power-On:** Once all connections are secure, switch on the power button on the equalizer. The LED

display and fader lights should illuminate.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Adjusting Frequency Bands

The E550 features 22 bands per channel, allowing for precise frequency adjustment. Each fader controls a specific frequency range with an adjustable range of  $\pm 12\text{dB}$ .

- Move the faders up to boost (increase) the corresponding frequency or down to cut (decrease) it.
- Observe the flashing lights on each fader, which indicate the real-time signal strength for that frequency segment.
- Adjust Bass (32-250Hz), Midrange (375-2KHz), and Treble (4-16KHz) independently to achieve your desired sound profile.

### 5.2 Using Preset Modes

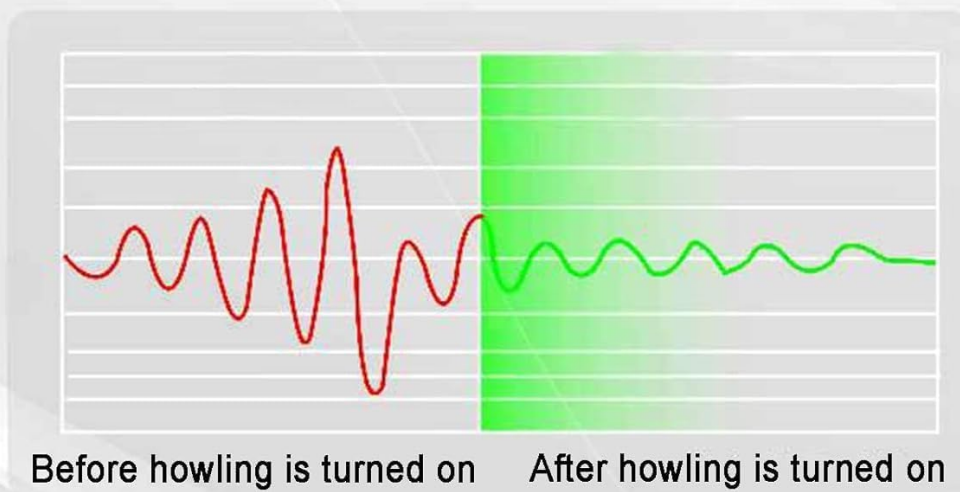
The equalizer supports 10 preset sound effects. These can be saved and recalled for quick access to your preferred audio settings.

- Refer to the user interface controls (buttons/knobs) for navigating and selecting preset modes.
- Consult the on-screen display for current preset selection.

### 5.3 Automatic Noise Reduction

The E550 includes an automatic noise reduction function to minimize environmental interference and deliver clear audio output.

The noise reduction function with cutting-edge noise gate can prevent howling in any occasion, prevent broken sound and howling, and output high-definition sound quality



**Figure 4:** This image visually represents the effectiveness of the noise reduction function. It shows a comparison of sound waves 'Before howling is turned on' (irregular, high amplitude) and 'After howling is turned on' (smoother, reduced amplitude), demonstrating the cutting-edge noise gate's ability to prevent howling and output high-definition sound quality.

- Activate the noise reduction feature via the dedicated control (if available) or through menu settings.
- This function helps prevent howling and broken sounds, ensuring a clean and high-definition audio output.

## 6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or aerosols.
- **Storage:** When not in use for extended periods, store the equalizer in a cool, dry place, away from dust and direct sunlight.
- **Ventilation:** Ensure that the ventilation openings are not blocked to prevent overheating.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cable disconnected; power outlet faulty; unit fuse blown.	Check power cable connection; try a different outlet; contact service for fuse replacement.
No sound output	Incorrect audio connections; input source not playing; amplifier/speakers off or faulty.	Verify all audio cables are correctly connected; ensure input source is active; check amplifier/speaker status.
Distorted sound	Input signal too high (clipping); faders set to extreme levels; faulty cables.	Reduce input level; adjust faders to moderate levels; replace audio cables.
Noise/Humming	Ground loop; interference from other devices; faulty cables.	Ensure proper grounding; move unit away from other electronics; replace cables; activate noise reduction.

## 8. SPECIFICATIONS



Figure 5: Product dimensions of the ERICAT Music Spectrum Equalizer E550, showing approximate measurements of 43mm (width), 4.5mm (height), and 23.5mm (depth).

- **Product Name:** Audio Spectrum Analyzer
- **Model:** E550
- **Power Supply:** 110-240V
- **Frequency Response:** 10Hz-20KHz
- **Distortion:** 0.01%
- **Input Sensitivity:** 150mV/50Hz
- **Equalizer Control Characteristics:**  $\pm 12$ dB
- **Input Impedance:** 47k $\Omega$
- **Band Design:** Dual 22-band per channel
- **Preset Effects:** 10
- **Features:** Automatic Noise Reduction, Low/Mid/Treble Adjustment

## 9. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For detailed warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the ERICAT official

website.