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> Dpofirs Digital Audio Spectrum Analyzer and 15-Band Equalizer User Manual

Dpofirs Dpofirss4p0uztqae

Dpofirs Digital Audio Spectrum Analyzer and 15-Band Equalizer User Manual

Model: Dpofirss4p0uztqae

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Dpofirs Digital Audio Spectrum Analyzer and 15-Band Equalizer. This device is designed to enhance your audio experience by offering precise sound processing and real-time visual feedback of audio frequencies. Please read this manual thoroughly before using the product to ensure proper functionality and longevity.

PRODUCT SPECIFICATIONS

Item Type	Music Spectrum Equalizer
Band Indicator	15 bands
Frequency Response	20 Hz - 20 KHz
Sensitivity	>-40 dB (94 dB SPL at 1 KHz)
Channels	Dual Channel
Gain Equalizer	±30 dB
Processor	ARM-CortexM3
Dimensions	26 x 7 x 4 cm
Weight	294 g

PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Music Spectrum Equalizer Unit

- 1 x User Manual
- 1 x Audio Cable
- 1 x Charging Cable
- 1 x Knob Cap
- 1 x 2-pin Power Cord



Image: All components included in the Dpofirs Digital Audio Spectrum Analyzer package.

PRODUCT OVERVIEW

Familiarize yourself with the various parts and controls of the Digital Audio Spectrum Analyzer.

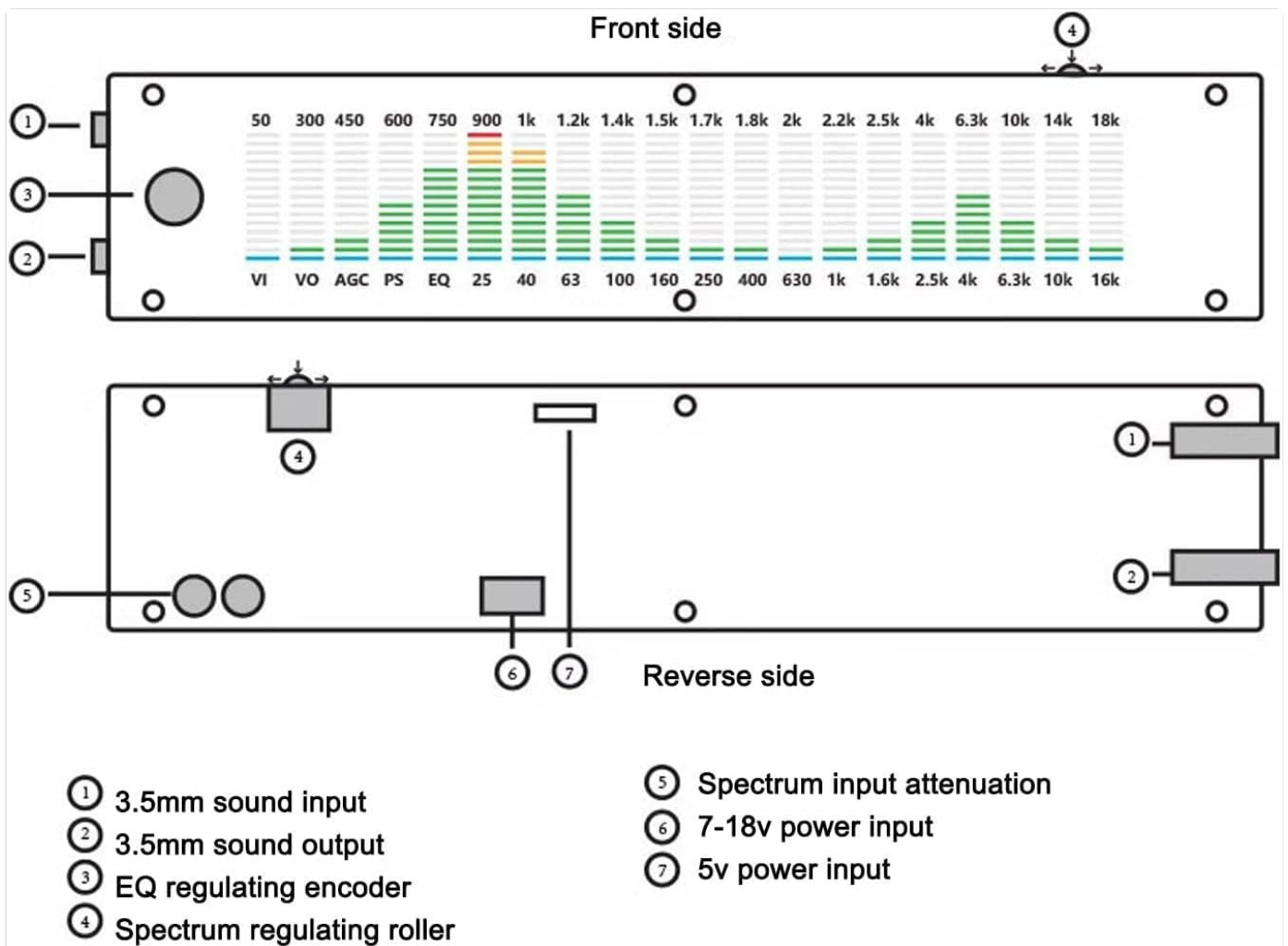


Image: Front and reverse side diagram of the Dpofirs Digital Audio Spectrum Analyzer, detailing input/output ports, power inputs, and control knob.

Front Side Components:

1. **3.5mm Sound Input:** Connect your audio source here.
2. **3.5mm Sound Output:** Connect to your amplifier or other audio playback device.
3. **EQ Regulating Encoder:** Used for adjusting equalizer parameters and navigating menus.
4. **Spectrum Regulating Roller:** Adjusts spectrum display settings.

Reverse Side Components:

5. **Spectrum Input Attenuation:** Adjusts the input sensitivity for the spectrum display.
6. **7-18V Power Input:** Main power input for the device.
7. **5V Power Input:** Alternative or supplementary power input.

SETUP

Follow these steps to set up your Digital Audio Spectrum Analyzer.

Power Connection:

- Connect the provided 2-pin power cord to the 7-18V Power Input (6) on the reverse side of the unit.
- Alternatively, use a 5V USB charging connector or a dedicated 12V input for power.
- **Important:** When using DSP sound processing, the device must be powered independently. Failure to do so may introduce display crosstalk.

Audio Connection:

Use the provided audio cable to connect your audio source and output device.

1. Connect your audio source (e.g., DVD player) to the **3.5mm Sound Input** (1) on the front side.
2. Connect the **3.5mm Sound Output** (2) on the front side to your amplifier (AMP) or other audio playback system.

Spectrum display usage method:

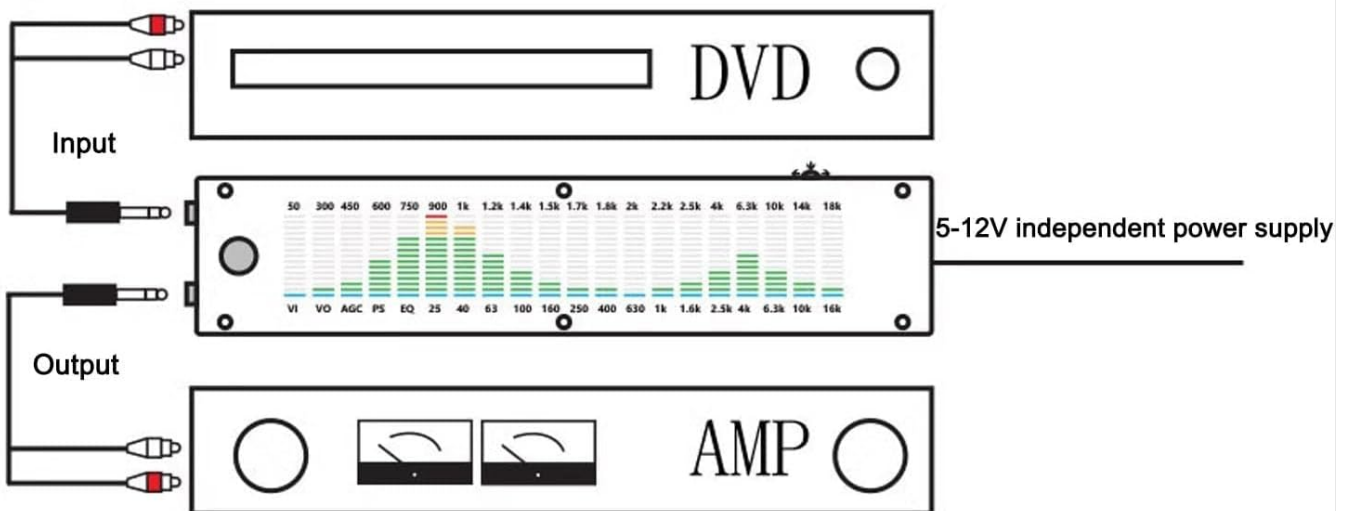
Regulating parameter

1. Press down the dial wheel as the menu key, each time press down to display a setting item, move left and right to adjust the value.
2. When the spectrum is displayed normally, move the dial wheel to adjust the gain.
3. Hold no action for 6 seconds to exit and save.

Adjust time

1. Enter the time display mode (Mode: 9).
2. Press the left key to select a position, and press the right key to select a number. The adjustment will be saved immediately.

Wire connection method:



Note: When the device is used as DSP sound processing, it must be powered independently, such as a 220V USB charging connector or a dedicated 12V input, otherwise it will introduce display crosstalk.

Image: Wire connection diagram for the Dpofirs Digital Audio Spectrum Analyzer, showing connections to a DVD player (input) and an amplifier (output), along with independent power supply.

OPERATING INSTRUCTIONS

This section details how to operate your spectrum analyzer and equalizer.

Spectrum Display Usage:

1. To enter the menu, press down on the **dial wheel** (EQ Regulating Encoder).
2. Move the dial wheel left or right to navigate through setting items and adjust values.
3. When the spectrum is displayed normally, rotate the dial wheel to adjust the gain.
4. Hold the dial wheel down for 6 seconds to exit the current menu and save changes.

Adjusting Time:

1. Enter the time display mode (Mode: 9).
2. Press the left key to select a position (e.g., hour, minute).
3. Press the right key to select a number. The adjustment will be saved immediately.

Frequency Spectrum Display:

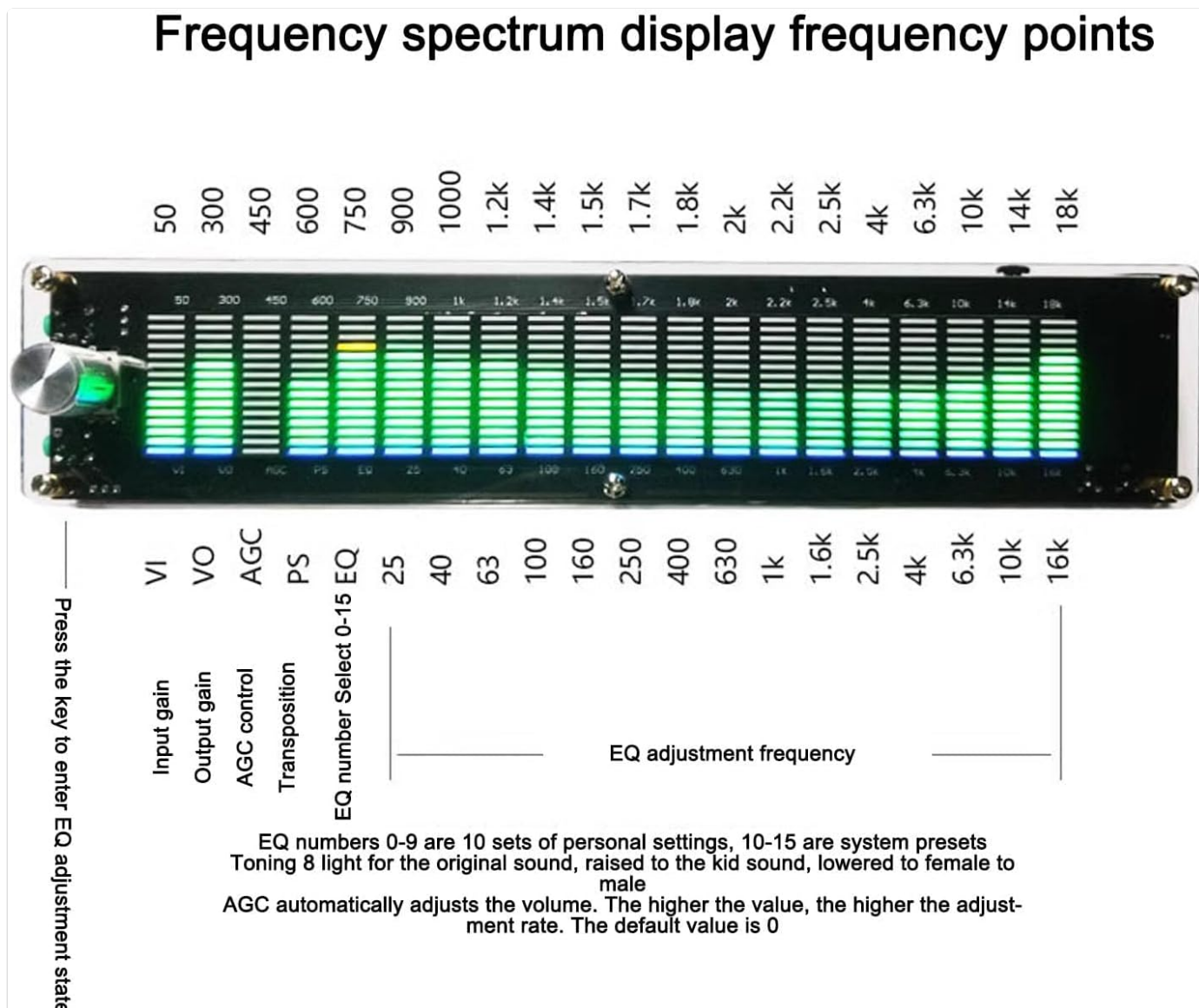


Image: Frequency spectrum display showing 15 bands from 50Hz to 18kHz, with indicators for Input Gain (VI), Output Gain (VO), AGC Control, Transposition (PS), and EQ number selection.

- The display shows 15 frequency points from 20Hz to 20kHz.
- **VI:** Input Gain
- **VO:** Output Gain
- **AGC:** Automatic Gain Control. Automatically adjusts volume. Higher value means higher adjustment rate. Default is 0.
- **PS:** Transposition
- **EQ Number Select (0-15 EQ):**
 - EQ numbers 0-9 are 10 sets of personal settings.
 - EQ numbers 10-15 are system presets.
 - Example presets: "Toning 8 light for the original sound", "raised to the kid sound", "lowered to female to male".

Press the key to enter EQ adjustment state.



Image: Examples of the Dpofirs Digital Audio Spectrum Analyzer display in various operational modes, showing different frequency visualizations.

MAINTENANCE

To ensure the longevity and optimal performance of your Dpofirs Digital Audio Spectrum Analyzer, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or abrasive materials, as they may damage the surface or internal components.
- **Storage:** Store the device in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- **Handling:** Handle the device with care to prevent drops or impacts, which could damage the internal circuitry or display.
- **Power Off:** Disconnect the power supply when the device is not in use for extended periods.

TROUBLESHOOTING

If you encounter any issues with your Digital Audio Spectrum Analyzer, refer to the following common problems and

solutions:

Problem	Possible Cause	Solution
No display/Device not powering on	Power cable not connected or faulty; power source issue.	Ensure the power cable is securely connected. Verify the power source is active. Try a different power adapter if available.
No audio output	Incorrect audio cable connection; output device issue.	Check that the 3.5mm sound output is correctly connected to your amplifier. Ensure the amplifier is powered on and set to the correct input.
No spectrum display/Incorrect display	No audio input; incorrect input attenuation; crosstalk.	Verify audio source is playing and connected to the 3.5mm sound input. Adjust the Spectrum Input Attenuation. Ensure independent power supply if DSP processing is active to prevent crosstalk.
Controls unresponsive	Temporary software glitch.	Disconnect and reconnect the power supply to restart the device.

WARRANTY AND SUPPORT

This Dpofirs product comes with a standard warranty. For specific warranty details, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support or further assistance, please visit the official Dpofirs website or contact their customer service department.

Contact Information:

- **Brand:** Dpofirs
- **Website:** [Visit Dpofirs on Amazon](#)

