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Douk Audio T7

Douk Audio T7 7-Band Equalizer Balanced XLR/RCA Preamplifier User Manual

INTRODUCTION

This manual provides comprehensive instructions for the Douk Audio T7 7-Band Equalizer Balanced XLR/RCA Preamplifier. Please read this manual carefully before operating the device to ensure proper use and optimal performance.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

PACKAGE CONTENTS

PACKING LIST



The image displays the Douk Audio T7 unit, a DC 12V power adapter, and a diagram showing the dimensions and weight of the unit and package.

The package includes:

- 1 x Douk Audio T7 7-Band Equalizer Preamplifier
- 1 x DC 12V Power Adapter

PRODUCT FEATURES

- **7-Band EQ Equalizer:** Independent frequency band control (64Hz/125Hz/250Hz/500Hz/2KHz/4KHz/8KHz) with a range of -6dB to +6dB. Allows precise adjustment of treble, midrange, and bass to compensate for speaker characteristics and room acoustics.
- **Balanced XLR Preamplifier:** Supports both XLR and RCA inputs and outputs. Delivers high-quality audio to amplifiers or active speakers with excellent channel separation, resolution, soundstage, and a clean background.
- **Bypass Design & High Performance:** Features a bypass mode that can be activated by turning off the power, allowing for the enjoyment of the original audio signal without equalization. The T7 boasts a Signal-to-Noise Ratio (SNR) exceeding 104dB, a frequency response range of 20Hz-20kHz, and a distortion level as low as 0.003%, ensuring accurate audio reproduction.

- **Attractive and Robust Design:** Housed in a black aluminum alloy chassis, providing effective shielding, a cool aesthetic, and durable construction. Ideal for audiophiles seeking high-fidelity sound.
- **Convenient Features:** Operates without a volume control, outputting a predetermined level. Both XLR and RCA outputs function simultaneously.

CONTROLS AND CONNECTIONS

Front Panel



This image shows the front panel of the Douk Audio T7, highlighting the input selector knob (RCA/BAL/OFF) and the seven equalizer adjustment knobs for 64Hz, 125Hz, 250Hz, 500Hz, 2KHz, 4KHz, and 8KHz.

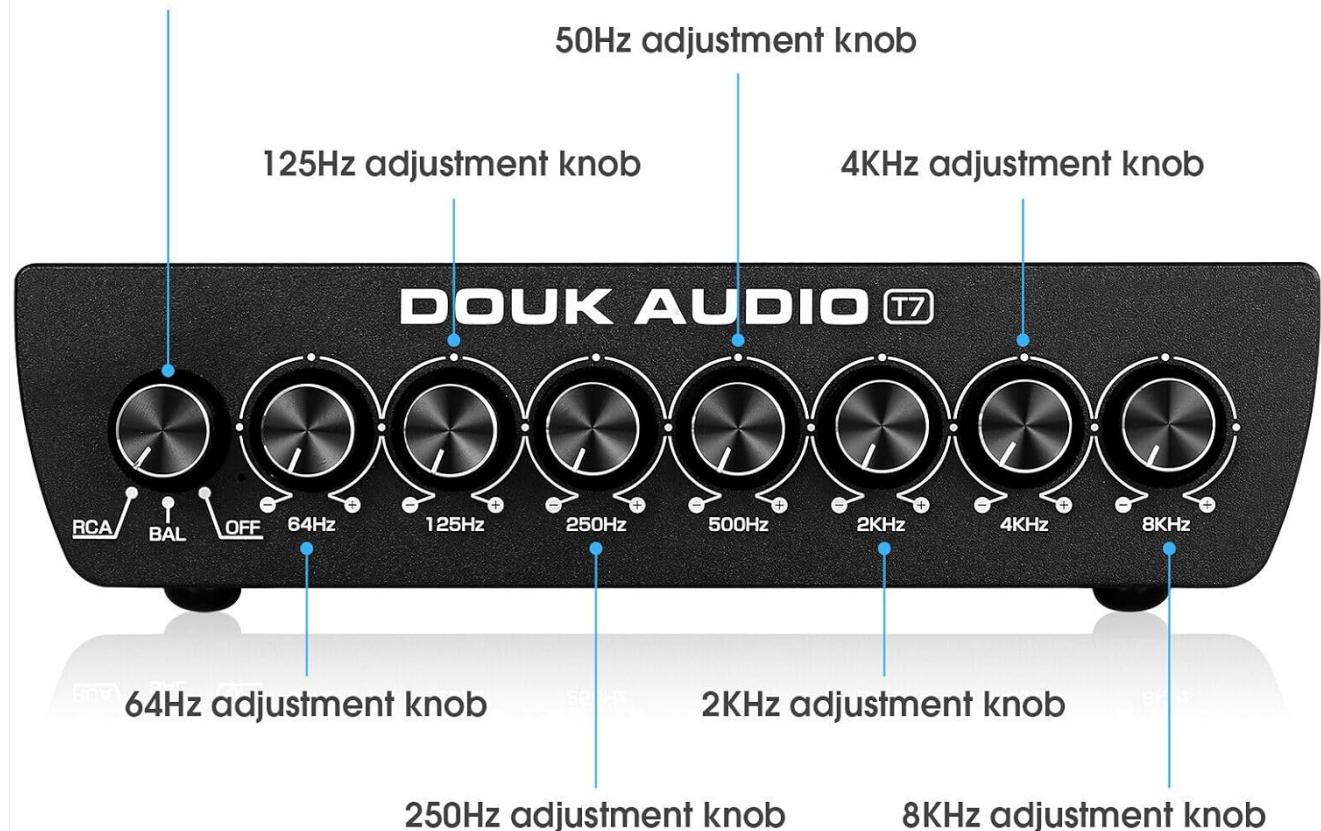
The front panel features the following controls:

- **Input Selector Knob (RCA/BAL/OFF):** Selects between RCA input, Balanced (XLR) input, or activates bypass mode (OFF).
- **64Hz Adjustment Knob:** Adjusts the gain for the 64Hz frequency band.
- **125Hz Adjustment Knob:** Adjusts the gain for the 125Hz frequency band.
- **250Hz Adjustment Knob:** Adjusts the gain for the 250Hz frequency band.

- **500Hz Adjustment Knob:** Adjusts the gain for the 500Hz frequency band.
- **2KHz Adjustment Knob:** Adjusts the gain for the 2KHz frequency band.
- **4KHz Adjustment Knob:** Adjusts the gain for the 4KHz frequency band.
- **8KHz Adjustment Knob:** Adjusts the gain for the 8KHz frequency band.

Rear Panel

RCA input / BAL input / Power off



This image illustrates the rear panel connections of the Douk Audio T7, showing the Balanced XLR/RCA inputs, Balanced XLR/RCA outputs, and the DC 12V power input.

The rear panel provides the following connections:

- **Balanced XLR Input (L/R):** For connecting balanced audio sources using XLR cables.
- **RCA Input (L/R):** For connecting unbalanced audio sources using RCA cables.
- **Balanced XLR Output (L/R):** For connecting to amplifiers or active speakers using XLR cables.
- **RCA Output (L/R):** For connecting to amplifiers or active speakers using RCA cables.
- **DC 12V IN:** Power input for the included 12V DC adapter.

SETUP GUIDE

1. Power Connection

Connect the included DC 12V power adapter to the "DC 12V IN" port on the rear panel of the T7. Plug the adapter into a suitable power outlet.

2. Audio Input Connection

For RCA Input: Connect your audio source (e.g., CD player, DAC, phone, tablet PC, TV set-top box, laptop) to the "RCA Input" jacks on the rear panel using RCA cables.

For Balanced XLR Input: Connect your audio source to the "Balanced XLR Input" jacks on the rear panel using XLR cables.

3. Audio Output Connection

Connect the "RCA Output" jacks or "Balanced XLR Output" jacks on the rear panel of the T7 to your amplifier or active speakers using appropriate RCA or XLR cables. Both outputs can be used simultaneously.

4. Initial Power On

Ensure all connections are secure. Turn on your audio source and amplifier/active speakers. Then, power on the Douk Audio T7.

OPERATING INSTRUCTIONS

1. Selecting Input Mode

Use the input selector knob on the front panel to choose your desired input: "RCA" for RCA sources, or "BAL" for Balanced XLR sources.

2. Adjusting Equalization

Once an input is selected, use the seven frequency adjustment knobs (64Hz, 125Hz, 250Hz, 500Hz, 2KHz, 4KHz, 8KHz) to fine-tune the audio frequencies. Rotate the knobs clockwise to boost the frequency band (+6dB) and counter-clockwise to cut the frequency band (-6dB).

Experiment with different settings to achieve your preferred sound profile or to correct room acoustics and speaker response.

3. Bypass Mode

To listen to the original, unequalized audio signal, set the input selector knob to "OFF". This activates the bypass mode, allowing the audio signal to pass through the unit without any equalization.

4. Simultaneous Outputs

The T7 outputs audio simultaneously through both the RCA and Balanced XLR output ports. You can connect to multiple devices if needed.

MAINTENANCE

Cleaning

Wipe the unit with a soft, dry cloth. Do not use any liquid cleaners or solvents, as they may damage the finish or internal components.

Storage

If the unit will not be used for an extended period, disconnect it from the power supply and store it in a cool, dry place.

Ventilation

Ensure that the ventilation openings are not blocked to prevent overheating. Maintain adequate space around the unit for proper airflow.

TROUBLESHOOTING

No Sound Output

- **Check Power:** Ensure the power adapter is securely connected to the T7 and a working power outlet.

- **Check Input Selection:** Verify that the input selector knob on the front panel is set to the correct input (RCA or BAL), not "OFF" (bypass mode).
- **Check Connections:** Ensure all audio cables (input and output) are securely connected to both the T7 and your source/amplifier/speakers.
- **Check Source/Amplifier:** Confirm that your audio source is playing and your amplifier/active speakers are powered on and functioning correctly.

Distorted Sound

- **Check Gain Levels:** Ensure that the equalizer knobs are not set to extreme boost levels, which can cause clipping or distortion. Try reducing the gain on specific frequency bands.
- **Check Cables:** Inspect audio cables for damage or loose connections.
- **Source Quality:** Verify the quality of the audio source. Poor quality source material can result in distorted output.

Hum or Noise

- **Ground Loop:** A hum can sometimes indicate a ground loop. Try connecting all audio equipment to the same power strip or outlet. If the issue persists, a ground loop isolator may be necessary.
- **Cable Quality:** Use high-quality, shielded audio cables.
- **Interference:** Keep the unit away from other electronic devices that may cause interference.

SPECIFICATIONS

Model:	T7
Frequency Bands:	64Hz, 125Hz, 250Hz, 500Hz, 2KHz, 4KHz, 8KHz
Gain Range:	-6dB to +6dB per band
Inputs:	Balanced XLR (L/R), RCA (L/R)
Outputs:	Balanced XLR (L/R), RCA (L/R)
Signal-to-Noise Ratio (SNR):	>104dB
Frequency Response:	20Hz - 20kHz
Distortion:	<0.003%
Power Supply:	DC 12V
Product Dimensions (L x W x H):	15.2 x 12.6 x 4.2 cm (5.98 x 4.96 x 1.65 inches)
Net Weight:	1.02 kg (2.25 lbs)
Manufacturer:	Douk Audio
Country of Origin:	China

WARRANTY AND SUPPORT

Douk Audio 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 Douk Audio website. Keep your

purchase receipt as proof of purchase for warranty claims.