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Douk Audio VU56PRO

Douk Audio VU56PRO User Manual

Model: VU56PRO | Brand: Douk Audio

1. INTRODUCTION

The Douk Audio VU56PRO is an advanced MIC+LINE Stereo RGB LED Sound Level Meter, Audio Splitter, and Switcher. It provides a high-resolution visual representation of audio levels, offering both PPM (peak programme meter) and VU (volume unit) modes. This device is designed to enhance your audio experience with dynamic visual feedback and versatile connectivity options.

2. KEY FEATURES

- High-Resolution Display:** 56 bits per channel, 112-bit stereo display for precise real-time audio level visualization.
- Dual Display Modes:** Supports PPM (0dB=1.5Vpp) and VU (0dB=0.775Vrms) modes for varied applications.
- Customizable Visuals:** Switchable green/red main bar and peak LED colors, with 8 distinct display effects.
- Audio Converter/Splitter:** Functions as an audio converter/splitter with RCA and 3.5mm AUX inputs and outputs.
- Remote Control:** Full-function remote for convenient adjustment of all settings, which are saved upon shutdown.
- Robust Construction:** Features a cool aluminum CNC black case for durability and an exquisite appearance.
- Flexible Power:** Powered by USB 5V, suitable for various environments.

3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- 1x Douk Audio VU56PRO Sound Level Meter
- 1x Remote Control
- 1x USB Cable
- 1x 3.5mm AUX Cable
- 1x User Manual (this document)

4. SAFETY INFORMATION

- Ensure the device is powered by a DC 5V ($\geq 1A$) USB power source.
- Do not expose the device to water or excessive moisture.

- Avoid disassembling the unit, as this may void the warranty and cause damage.
- Keep the device away from high temperatures and direct sunlight.
- Use only the provided or recommended cables for connections.

5. PRODUCT OVERVIEW

Front Panel

The front panel features the stereo RGB LED display, showing audio levels for left (L) and right (R) channels. The display includes markings for various dB levels, including 0VU and +6dB.

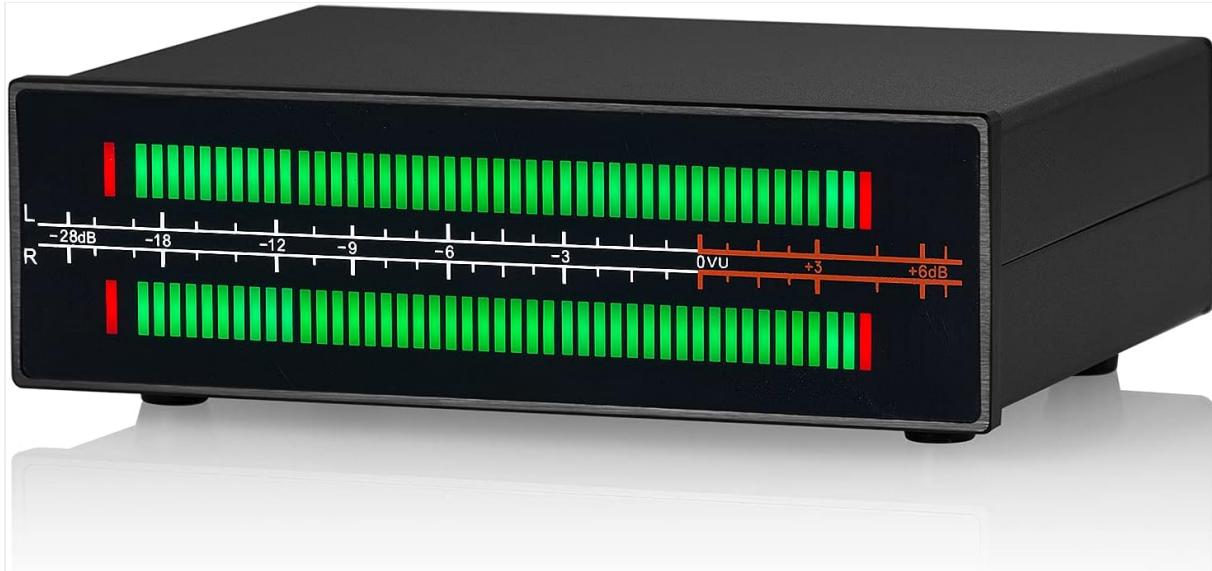
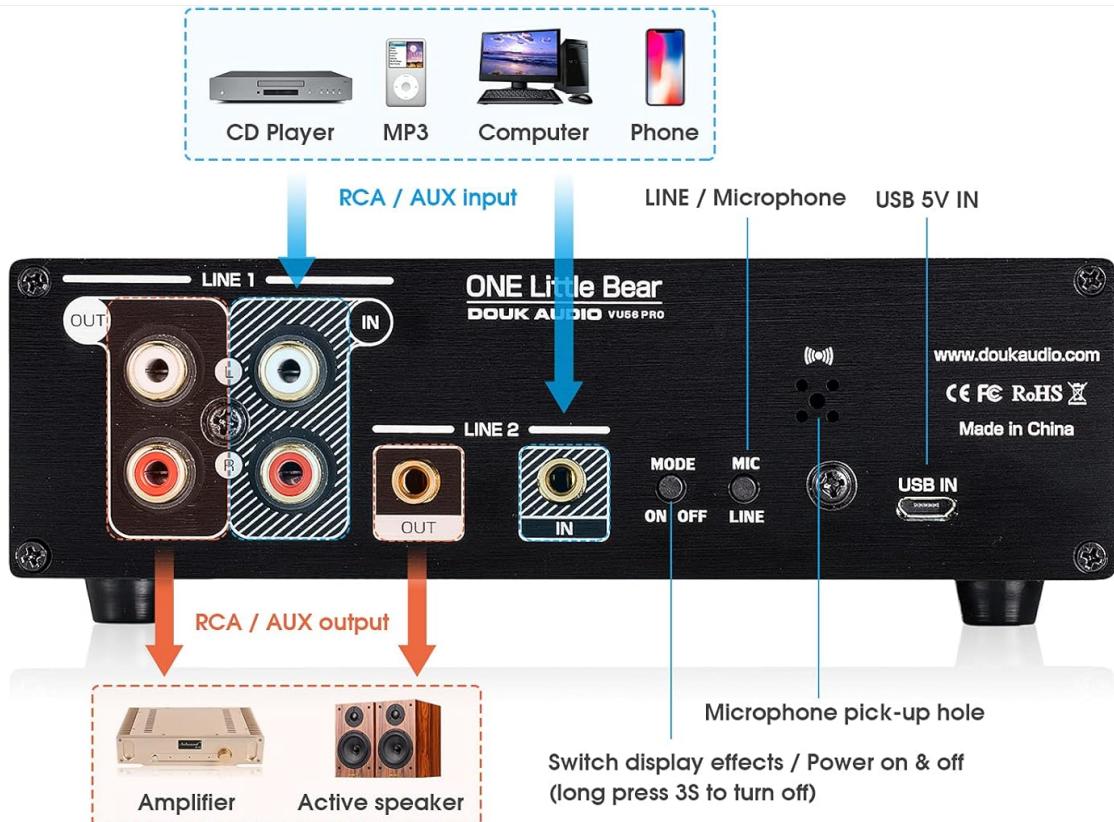


Image 5.1: Front view of the Douk Audio VU56PRO, showcasing the stereo RGB LED display.

Rear Panel

The rear panel houses all input and output connections, along with control switches. It includes RCA and 3.5mm AUX inputs/outputs, a microphone pick-up hole, mode switch, power switch, and a Micro USB power input.



Note: The inputs and outputs of LINE1 and LINE2 are connected in parallel, only need to connect one of the inputs and outputs, as the picture shows:



Image 5.2: Detailed diagram of the VU56PRO rear panel, illustrating input/output ports and controls.

- **LINE 1 IN/OUT (RCA):** Stereo RCA input and output.
- **LINE 2 IN/OUT (3.5mm AUX):** Stereo 3.5mm AUX input and output.
- **MODE Switch:** Toggles between display effects, and a long press (3 seconds) powers the unit on/off.
- **MIC/LINE Switch:** Selects between microphone input mode and line input mode.
- **Microphone Pick-up Hole:** Integrated microphone for MIC input mode.
- **USB IN:** Micro USB port for 5V DC power supply.

Note: The inputs and outputs of LINE 1 and LINE 2 are connected in parallel. Only one set of inputs and outputs should be connected at a time for proper operation.

6. SETUP

1. **Power Connection:** Connect the provided USB cable to the 'USB IN' port on the rear panel and plug the other end into a DC 5V ($\geq 1A$) USB power adapter (not included) or a compatible USB port.
2. **Audio Input Connection:**
 - **Line Input:** Connect your audio source (e.g., CD player, MP3 player, computer, phone) to either the RCA 'LINE 1 IN' or 3.5mm AUX 'LINE 2 IN' ports using the appropriate cable.
 - **Microphone Input:** For ambient sound detection, ensure the 'MIC/LINE' switch is set to 'MIC'. No external audio cable is needed for this mode.

3. **Audio Output Connection (Optional):** If using the VU56PRO as an audio splitter/switcher, connect your amplifier or active speakers to either the RCA 'LINE 1 OUT' or 3.5mm AUX 'LINE 2 OUT' ports.
4. **Power On:** Long press the 'MODE' switch for 3 seconds to power on the device. The LED display will illuminate.



VU56 PRO is the original and upgraded music spectrum designed by Douk Audio

56 bit in per channel, 112 bit stereo display, ultra-high resolution, easily to see the music level status in real time, every slight change of sound can be shown visually, with much kinds of display effects to dynamically decorate your listening enjoyment.

Image 6.1: The VU56PRO seamlessly integrated into a desktop audio environment, demonstrating its visual appeal.

7. OPERATING INSTRUCTIONS

7.1 Display Modes (PPM / VU)

The VU56PRO supports two primary display modes:

- **PPM Mode (Peak Programme Meter):** 0dB = 1.5Vpp. Recommended for general dynamic display and visual effects.
- **VU Mode (Volume Unit):** 0dB = 0.775Vrms. More suitable for professional audio level monitoring.

Switch between these modes using the remote control or the 'MODE' button on the device.



Two display modes

PPM (peak programme meter, 0dB=1.5Vpp) and VU (volume unit, 0dB=0.775Vrms) mode, to satisfy different display requirements.

**If not for professional use,
recommend to choose PPM
mode to get better display effects.**



Image 7.1: Illustration of the two display modes, PPM and VU, showing how the VU56PRO adapts to different monitoring needs.

7.2 Display Customization

The VU56PRO offers extensive customization options for its LED display:

- **Display Effects:** Choose from 8 different display effects to personalize the visual experience.
- **Display Color:** The main bar and peak LED colors can be switched between green and red.
- **Brightness Adjustment:** Adjust the display brightness across 4 levels.
- **Display Length Gain:** Adjust the sensitivity of the display with 3 levels: -3dB, 0dB, +3dB.
- **Peak LED Holding Time:** Configure how long the peak LED remains illuminated.
- **Drop Speed:** Adjust the speed at which the main bar and peak LED fall.

8 Kinds of Display Effects and Switchable Color

The color of main bar and peak LED can be switched green or red freely, and it also supports 8 kinds of display effects to get much fun and higher playability.



Image 7.2: The VU56PRO demonstrating its capability to display 8 different effects and switchable colors, enhancing visual engagement.

7.3 Remote Control Operation

All settings can be conveniently adjusted using the included remote control. Settings are automatically saved even after the device is powered off.



With full function remote control



All settings can be easily adjusted from the distance and will be saved even shutdown. Powered by USB 5V, convenient to use at home desktop / office / studio etc., and the power is only for reading the sound signal to the display main board but not affect the sound quality.

Image 7.3: The VU56PRO shown with its remote control, emphasizing ease of adjustment from a distance.

8. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or abrasive materials.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight.
- **Ventilation:** Ensure adequate airflow around the device to prevent overheating.

9. TROUBLESHOOTING

• No Display/Power:

- Ensure the USB power cable is securely connected and the power source is active (DC 5V, $\geq 1A$).
- Long press the 'MODE' switch for 3 seconds to power on the device.

• No Audio Level Display:

- Check if the audio input cables are correctly connected to 'LINE IN' ports.
- Verify that the audio source is playing and its volume is sufficient.
- Ensure the 'MIC/LINE' switch is set to 'LINE' for external audio sources or 'MIC' for ambient sound.
- Adjust the 'Display Length Gain' setting via the remote control.

• Incorrect Level Display:

- The maximum effective input level is 1.8Vrms. Exceeding this may result in a full display.
- Adjust the input level from your audio source or use the 'Display Length Gain' setting.
- Ensure the correct display mode (PPM or VU) is selected for your application.

- **Remote Control Not Responding:**

- Check the battery in the remote control and replace if necessary.
- Ensure there are no obstructions between the remote and the device.

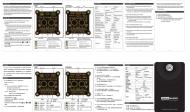
10. SPECIFICATIONS

Parameter	Value
Audio Input	1x RCA / 1x 3.5mm AUX / Microphone
Audio Output	1x RCA / 1x 3.5mm AUX
Max. Input Level	2.5Vrms
Max. Effective Input Level	1.8Vrms
Monitoring Frequency Range	20Hz-20KHz
Input Impedance	10KΩ
Brightness Adjustment	4 levels supported
Display Color	Green / Red (switchable)
Display Effects	8 kinds
Remote Control	Supported
Display Length Gain	3 levels adjustable (-3dB, 0dB, +3dB)
Display Mode	PPM mode / VU Mode
Holding Time of Peak LED	Adjustable
Drop Speed of Main Bar/Peak LED	Adjustable
Working Voltage	DC 5V (\geq 1A)
Power Interface	Micro USB
Dimensions	154 x 116 x 47mm / 6.06 x 4.57 x 1.85in
Net Weight	400g / 0.88lb

11. WARRANTY AND SUPPORT

Douk Audio products are designed for reliability and performance. For warranty information or technical support, please refer to the official Douk Audio website or contact your retailer. Please retain your proof of purchase for warranty claims. For further assistance, visit the [Douk Audio Store on Amazon](#).

Related Documents - VU56PRO

	<p>Douk Audio VU56 PRO Music Spectrum Display & Audio Converter Manual</p> <p>Explore the Douk Audio VU56 PRO, an advanced music spectrum display with VU and PPM modes, featuring RCA and 3.5mm AUX inputs/outputs, remote control, and 8 display effects. This manual provides detailed usage instructions, specifications, and troubleshooting for optimal audio visualization and conversion.</p>
	<p>DOUK AUDIO AS1424 LED Music Spectrum MIC Sound Level Analyzer - User Guide</p> <p>Official user guide for the DOUK AUDIO AS1424 LED Music Spectrum MIC Sound Level Analyzer. Learn how to use its key operations, understand connections, potentiometer functions, view specifications, packing list, and find contact information.</p>
	<p>Douk Audio VU2: Multi-functional VU Meter and Audio Splitter User Guide</p> <p>Comprehensive guide to the Douk Audio VU2, a versatile analog VU meter and 4-way audio splitter/switcher. Learn about its features, usage instructions, and technical specifications for optimizing your audio setup.</p>
	<p>Douk Audio VU9 & VU9 MINI Music Spectrum Visualizer User Manual</p> <p>User manual for Douk Audio VU9 and VU9 MINI music spectrum visualizers, covering setup, operation, specifications, and troubleshooting for these LED audio display devices.</p>
	<p>Douk Audio VU9 & VU9 MINI Music Spectrum Visualizer User Manual</p> <p>Detailed user manual for the Douk Audio VU9 and VU9 MINI music spectrum visualizers, covering features, setup, operation, specifications, and FAQs. Enhance your audio experience with synchronized LED lights.</p>
	<p>DOUK AUDIO VU1 PRO VU Meter & Audio Converter User Manual</p> <p>Official user manual for the DOUK AUDIO VU1 PRO VU Meter and Audio Converter. Learn about its features, parameters, operation, and troubleshooting.</p>