

ONE
Little Bear

DOUK AUDIO
MAKE HI-FI AFFORDABLE

MANUAL

Introduction

- 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.
- Two display mode, PPM (peak programme meter, 0dB=1.5Vpp) and VU (volume unit, 0dB=0.775Vrms) mode, to satisfy different display requirements. 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.
- Unique and attractive design, besides MIC pick-up, VU56 PRO also can be used as an audio converter / splitter with its RCA and 3.5mm AUX inputs and outputs. All interfaces are gold-plated to ensure the tight connection, effectively reduce the sound transmission loss, provides both visual and auditory feast.
- 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.
- Proper size with exquisite appearance, cool aluminum CNC black case, solid and durable. Multi-function settings, meet all usage requirements. 112-bit LED indicators and switchable color design look amazing and dynamic, can compatible with most common audio devices and perfectly match with a variety of usage scenarios.

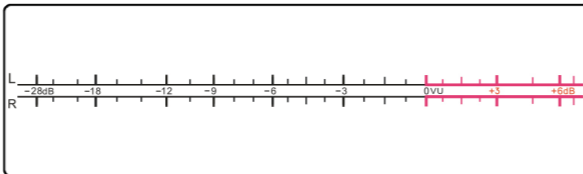
Warm tips

- The inputs and outputs of LINE1 and LINE2 are connected in parallel, in other words, all of them can work at the same time. For example, when LINE 1 RCA input is connected, both of the LINE 1 RCA output and LINE 2 3.5mm AUX output can work. When LINE 2 RCA and LINE 2 3.5mm AUX inputs are connected, audio signal of both channel will be mixed, but VU56 PRO is not suitable for mixing audio signals, please avoid this connection.
- Limited by the light-shielding plate on the front panel, the recommended distance for the remote control should be within 2 meters.
- The audio input signal can only be connected to the audio output of ordinary players such as CDs, computers, mobile phones, MP3, etc..

Don't connect input of VU56 PRO to the amplifier or speaker or phono output, otherwise VU56 PRO will be damaged.

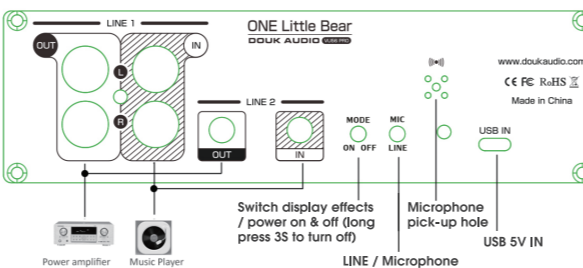
- VU56 PRO needs to be powered by separate USB power supply, don't use the USB port of computers or other equipments to power it, otherwise noise may be caused because of audio input common ground.
- The USB power supply can only be 5V single voltage, and the current is at least 1A. Not recommended to use fast charging sources with dual voltages.

Front & back panel

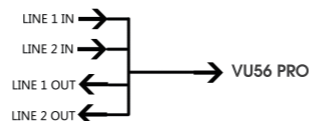


The scale value on the panel only matches the following effects:

dB value on the panel corresponds to the input level (may exist 1-bit error)	-3dB=0.387Vrms		1. Main bar + Peak LED drops
	0dB=0.775Vrms		2. Main bar
	+3dB=1.092Vrms		3. Main bar + Peak LED disappears



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:



8 kinds of display effects

Note that the value on the scale panel only supports the standard 1/2/3 display mode.

Main bar + Peak LED drop (corresponding to the value on panel)	
Main bar (corresponding to the value on panel)	
Main bar + Peak LED disappear (corresponding to the value on panel)	
Peak LED (2-bit)	
Peak LED (3-bit)	
Peak LED move from middle to both sides	
Main bar move from middle to both sides	
Main bar + LED move from middle to both sides	

Functions of remote control

- Reset factory data
 - Set color of main bar
 - Brightness adjustment
 - Drop speed of main bar
Drop speed of peak LED
Set holding time of peak LED
 - Input switch: Line / built-in MIC
 - Set the type of display effects
 - Set the color of peak LED
 - Gain setting of main bar display length
(Just work on displaying main bar, not affect the sound)
 - Shortcut key of switching display effects
 - VU display mode PPM display mode
- Note: factory data is: microphone input / display effect 1 / green main bar / red peak LED / level-2 speed / level-3 brightness / 0 gain.

How to use

- VU56 PRO will automatically power on when connected to USB power cable.
- Connect inputs and outputs
 - Microphone input
Default microphone input, if you have set it to line input please press the LINE/MIC button to switch to MIC, and then put it near your speaker to pickup the music.
 - LINE input
Press MIC/LINE button and switch to LINE input, according to the interfaces of your other audio device, select correct input and output interface. After all connection, just play music on your audio source device to enjoy the sound level display. VU56 PRO also can be an audio switcher: RCA input--RCA output / 3.5mm AUX input--3.5mm AUX output / RCA input--3.5mm AUX output / 3.5mm AUX input--RCA output.
- 8 kinds of display effects can be freely switched via remote control or "SET" button on the back panel. And via remote control, more functions can be easily achieved to get much fun.
- After using, please long press power button to turn it off, then disconnect the USB power cable.

Frequently asked questions

- Q: The pointer of VU Meter is moving even there is no music input.
- A: 1. The quality of the USB power supply is poor with large ripples that causes great interference. Recommended to change a better USB power supply.
2. The music player brings the noise and causes the interference. For example, some players have built-in WIFI or Bluetooth functions, recommended to change another player or turn off the wireless or bluetooth functions and try again.
- Q: Why is the level measured by VU56 PRO different from my other level meters?
- A: 1. The measuring result is related to the audio source device, audio cable, output power etc.. Sometimes there may be an error of about 1 bit. If you need more accurate measurement please purchase other more professional equipment.
2. Each level meter has its own 0dB standard. The parameters of VU56 PRO are as follows:
In VU meter mode: 0dB scale corresponding value: 0.775Vrms
In PPM mode: 0dB=1.5VPP
If not applicable, please purchase other types of level meters.
- Q: When using the microphone pickup, the LED lamps show too much or little.

- A: 1. The MIC pickup effect is related to the distance between the microphone and the sound source (that is, the speaker) and the loudness of the speaker. It can be controlled by adjusting the distance between VU56 PRO and the speaker or adjusting the volume of the sound.
2. You can fine adjust the LED display height by the gain adjustment on the remote control. And please note that these two functions (-3dB, +3dB) can only be used once and will not accumulate. Even if you press +3dB multiple times, VU56 PRO can only achieve +3dB function 1 time.
3. When the sound is too loud and you don't want to move the position, you can cover the microphone pickup hole with a small amount of tape to reduce the loudness and let the VU56-PRO display within the appropriate range.

Parameters

Brand: Douk Audio
Model: VU56 PRO
Audio input: 1 group*RCA / 1 group*3.5mm AUX / Microphone
Audio output: 1 group*RCA / 1 group*3.5mm AUX
Max. input level: 2.5Vrms
Max.effective input level: 1.8Vrms
(VU56 PRO will always be full display when exceed this)

Monitoring frequency range: 20Hz-20KHz

Input impedance: 10KΩ

Brightness adjustment: supported (4 levels)

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 (peak programme meter)

/ VU Mode (volume unit)

Holding time of peak LED: adjustable

Drop speed of main bar/peak LED: adjustable

Working voltage: DC 5V (>= 1A)

Power interface: Micro USB

Contact information

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