

How to use

Loop mode

1. Connect the audio source to the IN interface of L3;
2. Connect the input interface of preamp, tuner or display devices to the SENT interface of L3, and the output interface to the RETURN interface of L3; SENT of L3 is signal output, which can connect to the AUX IN or LINE IN of other devices; RETURN of L3 is signal input, and the signal will through LINE OUT of devices, and then to the RETURN of L3. OUT of L3 is the final signal output, which can connect the amplifier or other devices.
3. Connect the amplifier/active speaker etc. to the OUT interface of L3;
4. Connect the USB power supply and the L3 will automatically turn on.
5. Activate channel 1/2/3 through the button of front panel or press the button of remote control, the corresponding LED will light on. And then the output signal of OUT can be IN+1 / IN+1+2 / IN+1+3 / IN+2+3 / IN+1+2+3; or press "1+2+3" button of remote control to select the connection mode(1+2 / 1+3 / 2+3 / 1+2+3)
6. Single click the MODE knob on the back panel or use the remote control can switch to the color or brightness adjustment modes of backlight, and then rotate the knob can change the color and brightness. Long press the knob for 3 seconds in any mode can turn on/off the flowing water mode; In flowing water mode, rotate the knob can adjust the speed of light change.
7. If you want bypass mode, please don't activate any channel or press the "PASS" button on the remote control to switch to Bypass mode.
8. Long press any button for 5s on the front panel or use remote control to power off, and then disconnect the power supply.

1-IN-3-OUT mode

1. Connect the audio source/preamp etc. to the IN interface of L3;

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2. Connect amplifier/active speaker/headphone amp etc. to the SENT interfaces of L3.
3. Connect the USB power supply and the L3 will automatically turn on.
4. Press the 1/2/3 button on the front panel or on the remote control to make a contrast among different devices.
5. After use, long press any button for 5s on the front panel or use remote control to power off, and then disconnect the power supply.

3-IN-1-OUT mode

1. Connect 3 audio source/preamp etc. to the RETURN interfaces of L3.
2. Connect the amplifier/active speaker/headphone amp etc. to the OUT interface of L3;
3. Connect the USB power supply and the L3 will automatically turn on.
4. Press the 1/2/3 button on the front panel or on the remote control to make a contrast among different devices.
5. After use, long press any button for 5s on the front panel or use remote control to power off, and then disconnect the power supply.

FAQ

Q: The swing range of the VU meter is too large or too small.

A: VU meter displays the level of audio input, you can adjust the volume of audio source to increase or decrease the swing range appropriately.

Q: There is noise when connecting more than 2 devices.

A: The potential difference between different devices will cause common ground noise. There are 2 solutions:

- ① Add an audio isolation module between the device that generates common ground noise and L3.
- ② Use a wire to connect the GND of one device to the earth ground. (The earth ground can be indoor metal objects, such as iron windows, metal tables, heaters etc.)

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Parameters

Brand: Douk Audio
Model: L3
Audio input: Stereo RCA*1
Audio output: Stereo RCA*1
Loop interface: 3 groups
Work Mode: 1-IN-3-OUT/ 3-IN-1-OUT/ 3 channel Loop
Input level: 0.775V RMS
Input impedance: 100K
Frequency response: 20Hz-20KHz (±0.5dB)
VU meter color: multi-color
Diameter of VU meter: 45mm
Backlight brightness level: adjustable (10-level)
Remote function: supported
Settings save: supported
Working voltage: DC 5V(>=0.6A)
Power interface: USB (type-C)
Dimensions(W*D*H): 178*118*55mm / 7.00*4.65*2.17in
Package dimensions(W*D*H): 235*180*90mm / 9.25*7.09*3.54in
Net weight: 720g / 1.59lb
Package weight: 900g / 1.98lb
Packing List: 1*L3 Loop Switcher 1*USB Cable 1*User Manual
1*Remote Control (without 2*AAA battery)

Contact information

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ONE
Little Bear

DOUK AUDIO
MAKE HI-FI AFFORDABLE

MANUAL

Introduction

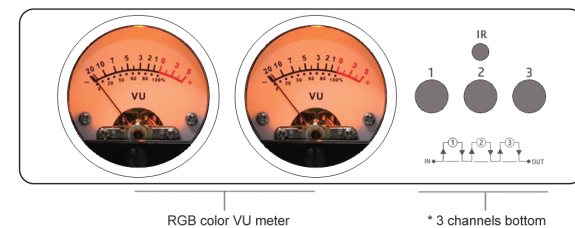
L3 is a loop switcher with VU meter. With stereo RCA input and output ports, support adding up to 3 preamps/equalizers/effectors to create multi-layered musical effects and one knob bypass to get original sound. Also supports 2 working modes to debug the devices(3-IN-1-OUT or 1-IN-3-OUT). Customized dual full-color VU meters, supporting adjust the color and brightness of backlight. Built-in power isolation circuit, it can share USB power with the audio source device without generating common ground noise. The 100K high impedance input circuit ensures the purity of the audio source signal. With aluminum CNC front panel and gold plated RCA interface ensure the smooth transmission of audio signals and minimize losses. Powered by USB 5V, it is convenient to use in most scenarios and does not require a separate power supply, very suitable for the daily needs of most users.

Warm tips

1. The series connection button is only available in loop mode. In this mode, the audio signal from IN interface can be arbitrarily passed through one channel (Chanel 1/2/3) or two channels (Channel 1+2/ 1+3/2+3) or three channels (Channel 1+2+3) and then to OUT interface.
2. Not support guitar recording or singing directly, you need to add a preamp to convert the guitar and mic signal to LINE OUT before connecting to L3.
3. In 3-IN-1-OUT or 1-IN-3-OUT mode, only one channel can input and output at one time, the 3 channels of IN or OUT cannot work at the same time.
4. In bypass mode, the audio signal will pass through from IN to OUT directly, not pass through channel 1/2/3.
5. For safer and faster delivery, without DC 5V power adapter and no batteries (2*AAA) inside the remote control, please prepare by yourself.

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Front panel

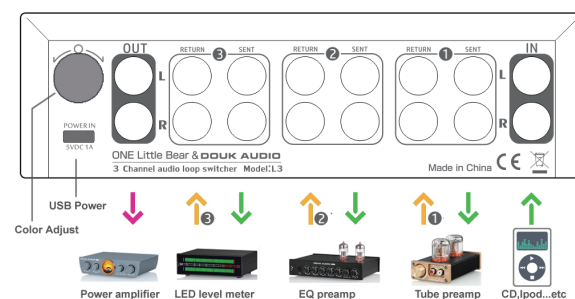


RGB color VU meter * 3 channels bottom

Function of button 1&2&3:
Single click: only activate the corresponding channel;
Long press for 2s: add corresponding channel to work together in loop mode(series connection);
Long press for 5s: turn off L3
Notice:
In loop mode, clicking any button will enter the corresponding channel to work independently. For example, if it works in channel 1+2+3 mode, click "2" button and it will enter channel 2 to work independently.

Rear panel

① Loop mode:



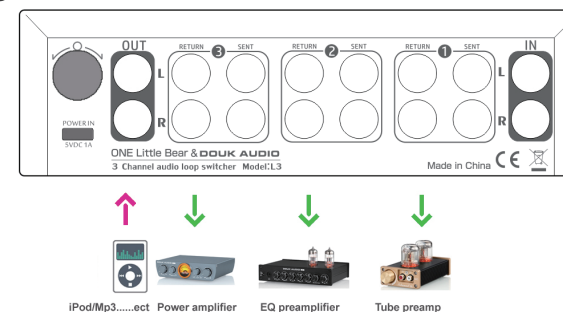
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How does it work in loop mode?

For example, follow the connection shown in the picture:
Audio IN—iPod; Channel 1—Tube Preamp; Channel 2—EQ preamp;
Channel 3—LED level meter; Audio OUT—Power amplifier

1. Single click the "1" button of the front panel to activate channel 1, the output path of audio signal is:
iPod → Tube preamp → Power amplifier
And so on, single click the "2" button to activate channel 2, the output path of audio signal is:
iPod → EQ preamp → Power amplifier
2. Long press "1" and "2" buttons for 2 seconds of the front panel to activate channel 1 and channel 2; or press the "1+2+3" button of the remote control to select "1+2" mode to activate; it can add 2 devices to achieve multiple channels working in series simultaneously. For example the channel 1 and channel 2 are both active, the output path of audio signal is:
iPod → Tube preamp → EQ preamp → Power amplifier.
The final output is a mix sound of tube preamp and EQ preamp, and then output to the speaker through power amplifier.
3. In Bypass mode(none of the 3 channels are active), the audio signal will not pass any devices, and the audio input and output are connected directly.

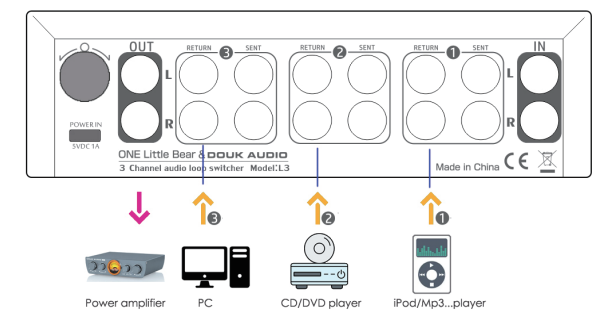
② 1-IN-3-OUT mode



* In < 1 IN 3 OUT > mode: the player connect to IN interface, and 3 output device connect to the SENT interface

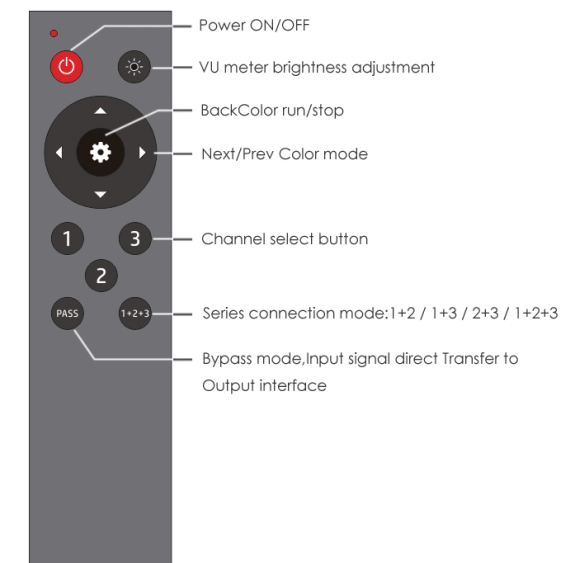
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③ 3-IN-1-OUT mode



* In < 3 IN 1 OUT > mode, the 3 input channels connect to RETURN interface only

Remote Control



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