



SU-1

USB Isolation Switcher

USER MANUAL

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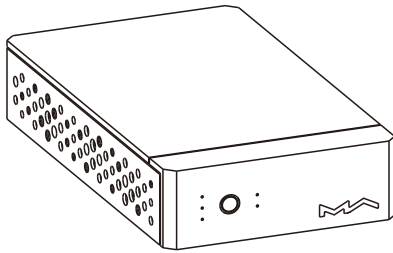
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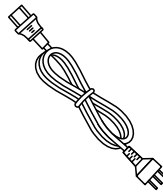
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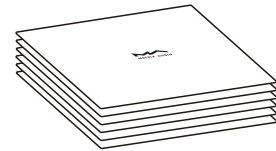
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Product

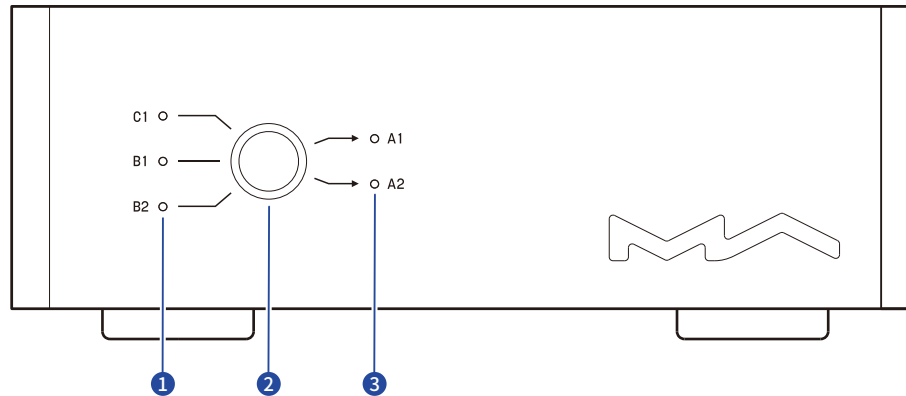


Power cable



Printed Materials

Front



1 Input Indicators

The three input indicators correspond to the three USB input ports respectively. The LED of the currently selected USB input port lights up.

2 Setup Button

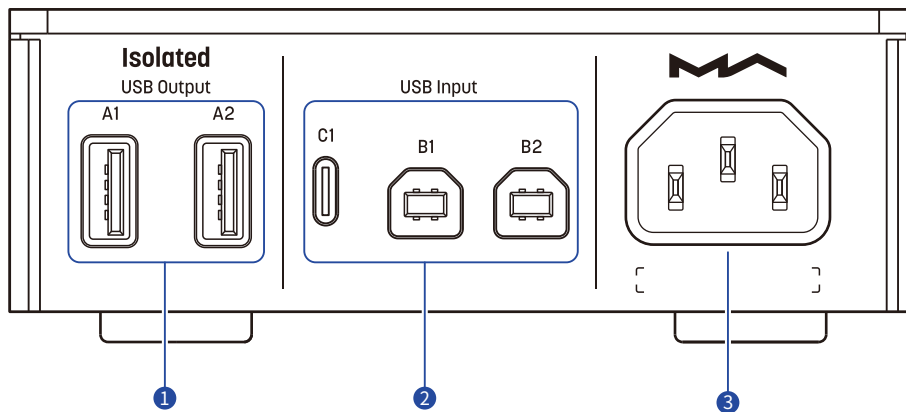
Used for input and output settings. Short press to switch one input port at a time; long press for about 2 seconds to switch the output port.

3 Output Indicators

The two output indicators correspond to the two USB output ports respectively. The LED of the currently selected USB output port lights up.

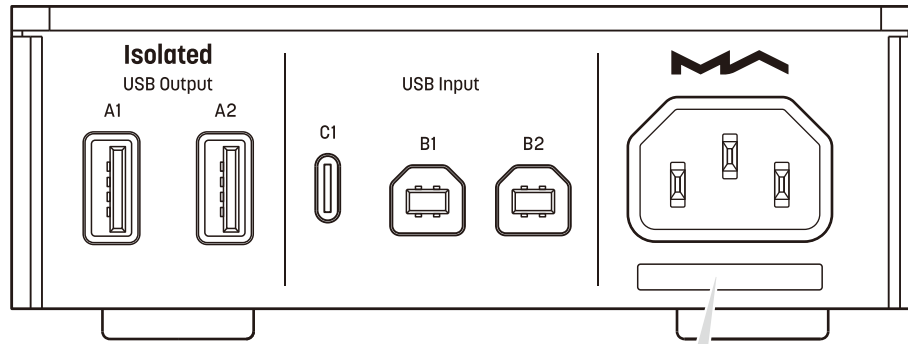
If no back-end device is connected to the currently selected USB output port, the LED will flash.

Rear



- 1 Isolated USB Type A Outputs**
 Provides 2 USB 2.0 High-Speed output ports that are galvanically isolated from the input ports and power ground, for connecting external devices such as USB DACs.
- 2 USB Type B & USB Type C Inputs**
 Equipped with 3 USB 2.0 High-Speed compliant input ports, which can be connected to front-end host devices such as computers, mobile phones, and tablets.
- 3 Power input**
 The SU-1 is equipped with a high-quality sealed toroidal transformer and multiple ultra-low-noise linear power supplies inside. To ensure maximum low-noise performance and safety, please be sure to use a three-core power cable with a ground terminal and ensure a reliable ground connection. Otherwise, you may feel a slight electric shock sensation on the chassis of this unit.

Rear



Before connecting to the power supply, ensure the input voltage complies with the applicable range indicated on the label.

Galvanic Isolation

The input and output ports are fully galvanically isolated, effectively blocking noise interference from front-end devices, cutting off ground loops, eliminating ground-loop noise and stray interference, and ensuring pure signal transmission.

USB Port Routing

Supports switching any one of the 3 USB inputs to any one of the 2 USB outputs. Allows simultaneous connection of 3 front-end devices and 2 back-end devices, avoiding frequent plugging and unplugging of cables.

USB Signal Repeater

The USB output ports feature optimized transmission impedance, effectively reducing signal loss and improving anti-interference capability. Supports longer USB cable runs, providing a stable and reliable data transmission link for connected devices.

USB Power Linkage

The input and output USB power supplies are synchronized. When the input port detects power from a front-end device, the output port automatically turns on; when the input port loses power, the output port turns off simultaneously without affecting the sleep function of the front-end USB ports.

Output Overcurrent Protection

Each USB output port provides 5V/1000mA ultra-low-noise power output. When the output current exceeds the 1000mA threshold, the overcurrent protection mechanism is triggered automatically: the output port shuts down immediately and the corresponding LED indicator flashes red. Normal operation can be restored by reconnecting the power to this unit after the external device fault has been resolved.

Technical specifications

Input Ports

2× 480 Mbps High-Speed USB Type B inputs, input power requirement < 5V 100 mA.
1× 480 Mbps High-Speed USB Type C inputs, input power requirement < 5V 100 mA.

Output Ports

2× 480 Mbps High-Speed USB Type A outputs, maximum output power rating: 5V 1000 mA.

LED Indicators

3 input indicators
2 output indicators

Power Specs

Power Voltage: AC 100V-120V 50/60Hz or AC 220V-240V 50/60Hz, factory-fixed
Power Consumption: < 15W

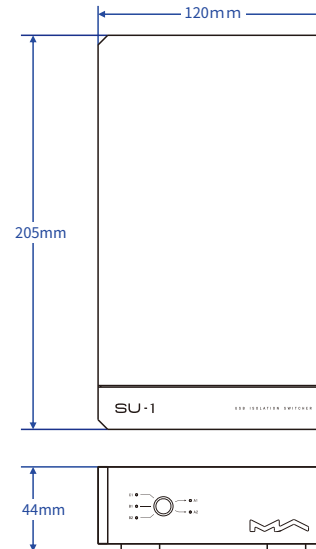
Weight & Size

Weight : 1.58kg (3.48pounds)

Size : Width 120mm (4.72inches)

Depth 205mm (8.07inches)

Height 44mm (1.73inches)



*For improvement purpose, specifications subject to changes without prior notice.

- This product is for indoor use only.
- For full ventilation, it is recommended to reserve a space of larger than 5 cm around the device.
- Do not cover the air vents with stuffs such as papers, tablecloths, and curtains to obstruct ventilation.
- Do not place stuff with flame, such as lighted candles, on the device.
- If the device is used in tropical areas, please be careful to prevent insects from entering the unit through the air vents.
- The device must not be subject to water droplets or splashes. Please do not place stuffs filled with liquids such as vases and cups on or near the device.