

1×4 4K60 HDMI Distribution Amplifier

SD1242-4K



SD1242-4K is a high-performance 1×4 4K60 HDMI distribution amplifier that supports 4K60 resolution, ensuring ultra-high-definition video transmission. It features 1 HDMI 2.0 input and 4 HDMI 2.0 outputs, meeting the needs of various device connections. Equipped with EDID management, USB-C, and DC power supply, it is easy to operate and quick to control. The removable bracket (optional) allows flexible installation. It is suitable for broadcasting, video conferencing, education, industrial applications, and more.

Connection

Video Input

1×HDMI type A

Video Output

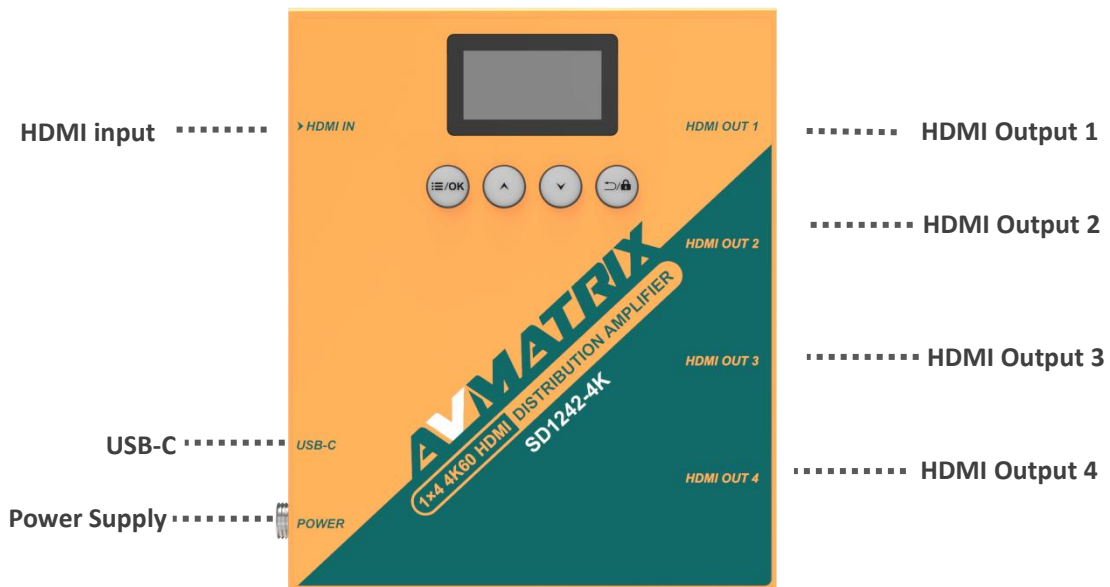
4×HDMI type A

Power Supply

DC 12V/ USB-C

Update

USB Type-C



Standard

Supported HDMI Input/Output Formats

4096x2160p 60/59.94/50/30/29.97/25/24/23.98
 3840x2160p 60/59.94/50/30/29.97/25/24/23.98
 2560x1080p 60/59.94/50/30/29.97/25/24/23.98
 1920x1080p 60/59.94/50/30/29.97/25/24/23.98
 1920x1080i 60/59.94/50
 1280x720p 60/59.94/50/30/29.97/25/24/23.98
 1440x576i 50
 1440x480i 60/59.94
 720x576p 50
 640x480p 60/59.94

HDMI Color Space and Precision

RGB 4:4:4 8 bit
 YUV 4:2:2 8 bit
 YUV 4:4:4 8 bit

Power

Power Supply

USB Type-C
 DC Power

Power Consumption

6W

Voltage Range

USB 5V-5.5V
 DC 5.5V-24V

Physical Specifications

Dimensions

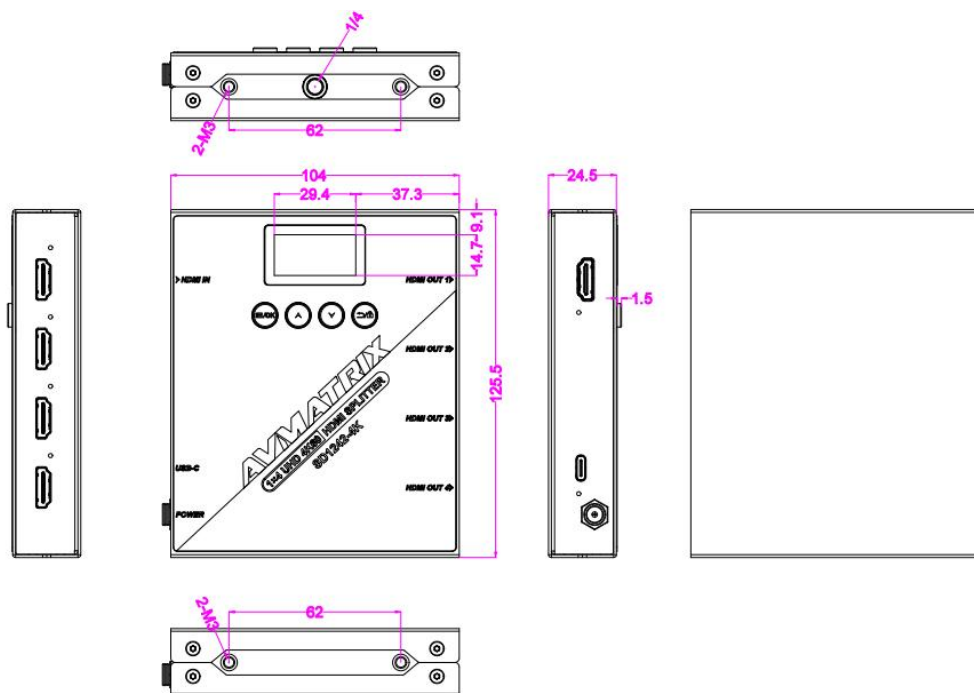
125.5×104×24.5mm

Net Weight

471g

Gross Weight

800g



Environmental Specifications

Operating Temperature

-20°C~60°C

Storage Temperature

-30°C~70°C

Relative Humidity

0%~90%(non-condensing)

Accessories

Mounting Bracket (optional)

DC 12V 2A Universal Power Adapter with International Plug

Button Functions

1		Menu/Confirm: Short press to enter the menu or confirm.
2		Previous: Short press to navigate to the previous menu level.
3		Next: Short press to navigate to the next menu level.
4		Back/Lock: Short press to go back. Long press (3 seconds) to lock/unlock the menu.

Menu Management

● EDID Settings

EDID (Extended Display Identification Data) is a standardized data format used for communication between display devices (e.g., monitors, TVs) and video source devices (e.g., computers, media players). It enables automatic detection of display capabilities such as resolution, refresh rate, and color depth. The SD1242-4K offers five EDID management modes: Auto, Standard, Custom, Copy, and Pre-save. The default mode is Auto.

1. Auto Mode: The device automatically detects and adapts to the EDID of the connected display.

Click "Apply" to confirm.

2. Standard Mode: Users can select preset resolutions, including:

3840x2160, 2560x1600, 2560x1080, 1920x1200, 1920x1080, 1600x1200, 1440x900, 1366x768, 1280x1024, 1280x720, 1024x768. Supported frame rates: 60Hz or 30Hz. Click "Apply" to confirm.

3.Custom Mode: Users can manually set resolution and frame rate:

Width: 640–3840 (increments of 2).

Height: 480–2160 (increments of 2).

Frame Rate: 24Hz, 25Hz, 30Hz, 50Hz, 60Hz, 70Hz, 75Hz, 85Hz, i50Hz, i60Hz.

Click "Apply" to confirm.

4.Copy Mode: Copy the EDID of the connected display:

Connect the display, select "Copy" in the Copy Mode menu, and then choose the output port (e.g., Output 1, Output 2).

Save the current setting copy to the specified location, such as Copy-1 (COPY-1, range 1-64).

After successful saving, the available copy options will be displayed in the copy list, such as COPY-1, select the desired copy option.

After selecting the copy option, click "Apply" and the device will apply the current settings, i.e., the current connection shows the EDID information of the device.

5.Pre-save Mode: Users can import the pre-save EDID file into the control software. After import successfully, the pre-save setting option will be displayed in the pre-list of the menu. Then enter the pre-list, select the pre-save mode, click "Apply", the device will apply the current pre-save EDID information.

Note: The format of the pre-save EDID file is .bin and .xml.

● Output Settings

Enable or disable HDMI Outputs 1–4.

● System Settings

Through the system settings, users can easily manage and optimize the operation status of the device.

Language: Chinese or English.

Lcd Off: Set the Lcd screen off time.

5s, 15s, 30s, 1min, 5min, 10min, 30min, or Never.

Bk2Status: Sets the time to return to the top page.

5s, 15s, 30s, 1min, 5min, 10min, 30min, or Never.

Version: Display system and hardware version.

Reset: Restore factory defaults.

Warranty

3-year limited manufacturer warranty.

Note: Specifications are subject to change without notice as part of ongoing product improvements.