

 Power  Input  Output 1  Output 2

▶ SP12AB

User Manual

Introduction

Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.



Surge protection device recommended

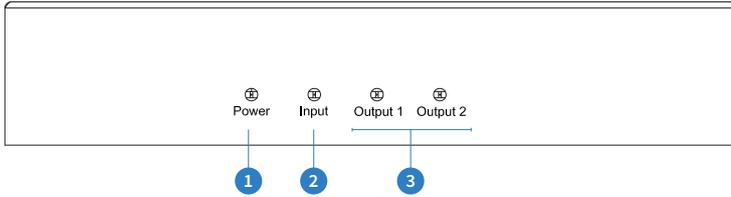
This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

The SP12AB HDMI 1×2 distribution amplifier splits a single DVI or HDMI audio/video source to two identical HDMI outputs / displays. The SP12AB also supports video resolutions of 1080p Full HD up to and including 4K@30Hz UHD as well as all 3D formats and multichannel digital audio formats including Dolby® True HD and DTS-HD® Master Audio™. An embedded audio extractor can also extract the HDMI audio signal and output it via a 3.5mm L/R analogue audio output and SPDIF coaxial. (Only two channel PCM is supported on the analogue audio breakout)

FEATURES:

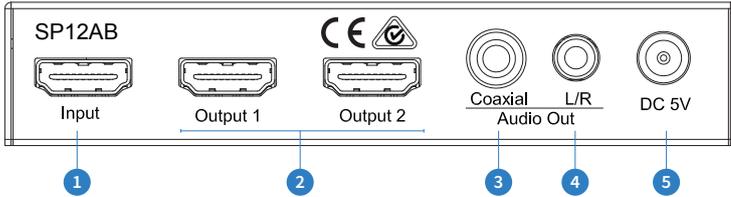
- Supports resolutions up to 1080p@60Hz, 4K@30Hz, 36-bit deep color
- Splits an HDMI source to 2 outputs without loss
- Extract the audio from HDMI source via analog and digital outputs (PCM only)
- Dolby TrueHD and DTS-HD master audio pass through HDMI output
- Advanced EDID management for rapid integration of sources and displays
- LEDs for power-on and outputs indication
- Easy installation with rack-mounting ears
- Small compact size
- Full 3D pass-through
- HDCP compliant

Front Panel



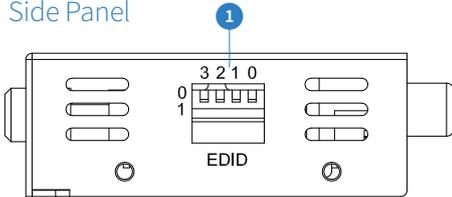
- 1 Power LED indicator
Provides the current power state of the unit.
- 2 Input LED indicator
Indicates that the attached source is active.
- 3 Output LED indicator
Indicates that the status of the HDMI output ports.

Back Panel



- 1 HDMI input – Connect to HDMI source.
- 2 HDMI outputs 1 to 2 – Connect to displays.
- 3 Coaxial audio out – RCA connector, extract the digital audio from HDMI input.
- 4 L/R audio out – 3.5mm stereo phone-jack, extract audio from HDMI input. (Only supports two channel PCM and will mute if multichannel audio is detected)
- 5 Power port – Use included 5V/1A DC adaptor to power the unit.

Side Panel



- 1 DIP switcher – EDID management.

EDID Control

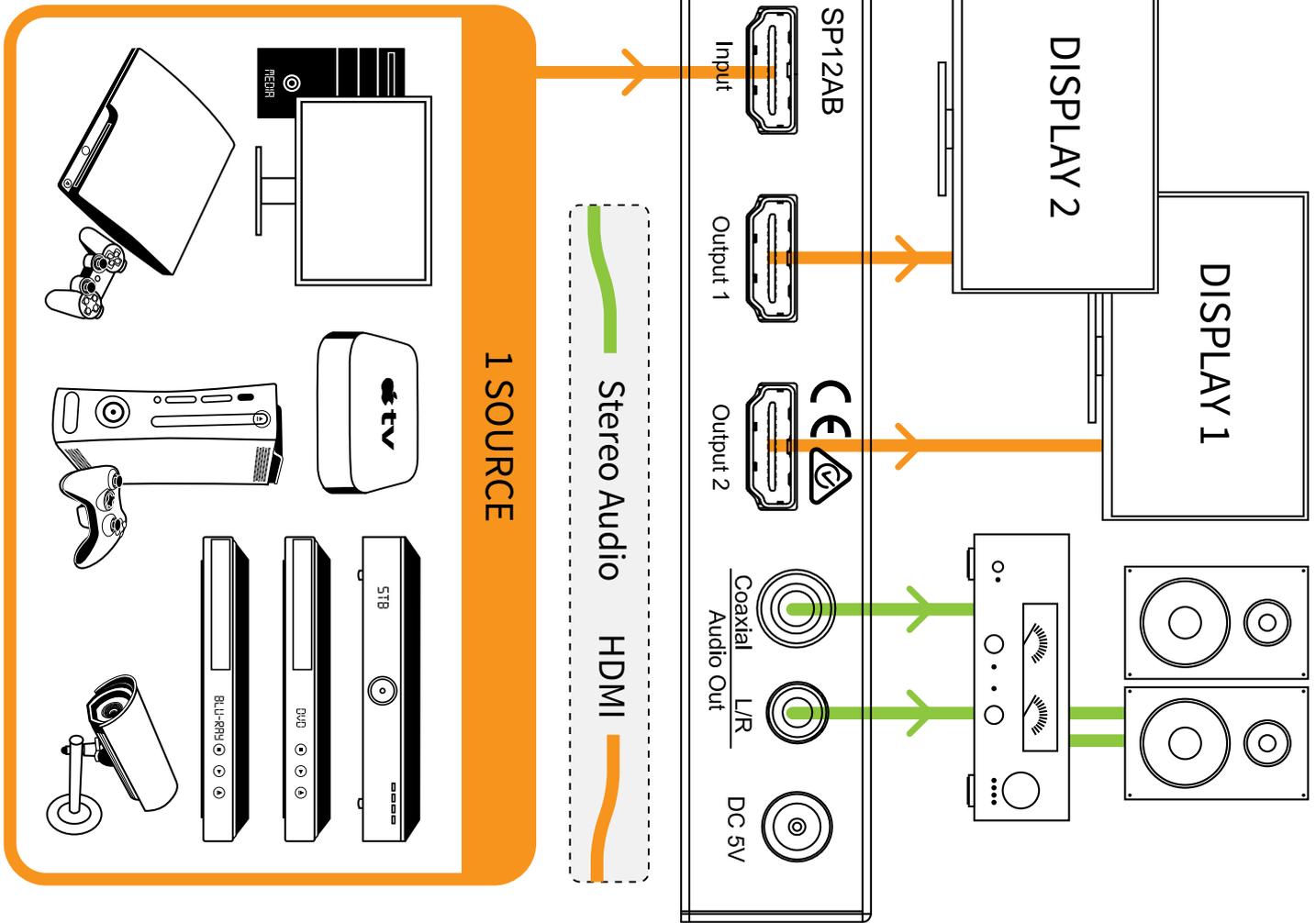
EDID (Extended Display Identification Data) is a data structure that is used between a display and a source. This data is used by the source to find out what audio and video resolutions are supported by the display then from this information the source will determine what the best audio and video resolutions need to be outputted.

While the objective of EDID is to make connecting a digital display to a source a simple plug and play procedure issues do arise when multiple displays or video matrix switching is introduced because of the increased number of variables.

By pre-determining the video resolution and audio format of the source and display device you can reduce the time need for EDID hand shaking thus making switching quicker and more reliable. Instructions on these setting can be found opposite.

| 3 | 2 | 1 | 0 | EDID TYPE |
|------------------------------|---|---|---|------------------------|
| Combination of DIP positions | | | | |
| 0 | 0 | 0 | 0 | Copy EDID from output1 |
| 0 | 0 | 0 | 1 | 1080P 2.0CH |
| 0 | 0 | 1 | 0 | 1080P 5.1CH |
| 0 | 0 | 1 | 1 | 1080P 7.1CH |
| 0 | 1 | 0 | 0 | 1080i 2.0CH |
| 0 | 1 | 0 | 1 | 1080i 5.1CH |
| 0 | 1 | 1 | 0 | 1080i 7.1CH |
| 0 | 1 | 1 | 1 | 3D 2.0CH |
| 1 | 0 | 0 | 0 | 3D 5.1CH |
| 1 | 0 | 0 | 1 | 3D 7.1CH |
| 1 | 0 | 1 | 0 | 4K 2.0CH |
| 1 | 0 | 1 | 1 | 4K 5.1CH |
| 1 | 1 | 0 | 0 | 4K 7.1CH |
| 1 | 1 | 0 | 1 | DVI 1280x1024 |
| 1 | 1 | 1 | 0 | DVI 1920x1080 |
| 1 | 1 | 1 | 1 | DVI 1920x1200 |

CONNECTION DIAGRAM



Specifications

Video Input Connectors: 1x HDMI Type A, 19-pin, female

Video Output Connectors: 2x HDMI Type A, 19-pin, female

Audio Output Connectors: 1x RCA (SPDIF), 1x 3.5mm stereo jack (L/R)

EDID: 4-PIN DIP switch

Rack-Mountable: Rack ears included

Dimensions (W x H x D): 1117mm x 61mm x 22mm , without feet

Shipping Weight: 0.4kg

Operating Temperature: 32°F to 104°F (0°C to 40°C)

Storage Temperature: -4°F to 140°F (-20°C to 60°C)

Power Supply: 5V/1A DC

NOTE: Specifications are subject to change without notice.
Weight and dimensions are approximate.

Package Contents:

- 1x SP12AB
- 1x 5V/1A DC power supply
- 1x mounting kit

Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.



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