

▶ **SP14AB**  
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

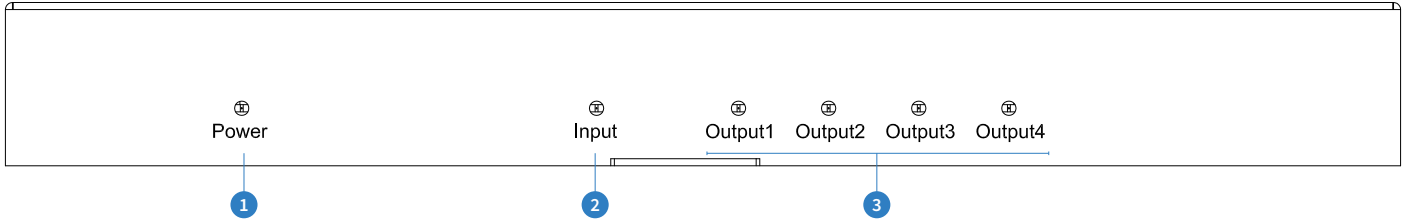
This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

**The SP14AB** is a HDMI 1:4 distribution amplifier which splits a single DVI or HDMI audio/video source to four identical HDMI outputs / displays. The SP14AB support video resolutions from 1080p Full HD up to and including 4K@30Hz UHD and all 3D formats as well as 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:

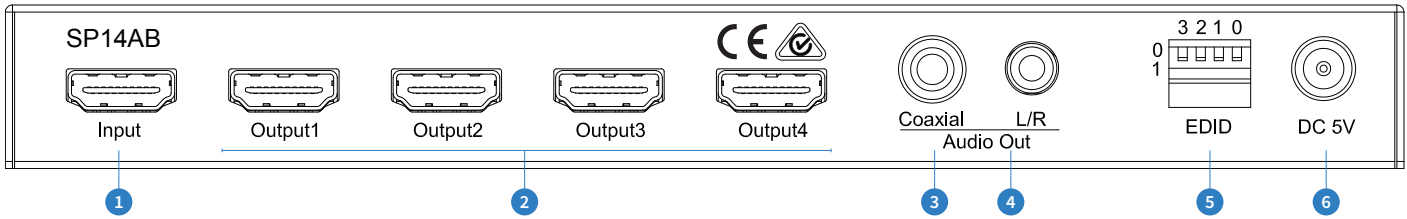
- Supports resolutions up to 1080p@60Hz, 4K@30Hz, 36-bit deep colour
- Splits an HDMI source to 4 outputs without loss
- Extract the audio from HDMI source via analog and digital outputs.
- Dolby TrueHD and DTS-HD master audio pass through to HDMI output
- Advanced EDID management for rapid integration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

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 the status of the HDMI output ports.

Back Panel



- 1 HDMI input – Connect to HDMI source.
- 2 HDMI outputs 1 to 4 – 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 DIP switcher – EDID management. See table below
- 6 Power port – Use included 5V/2A DC adaptor to power the unit.

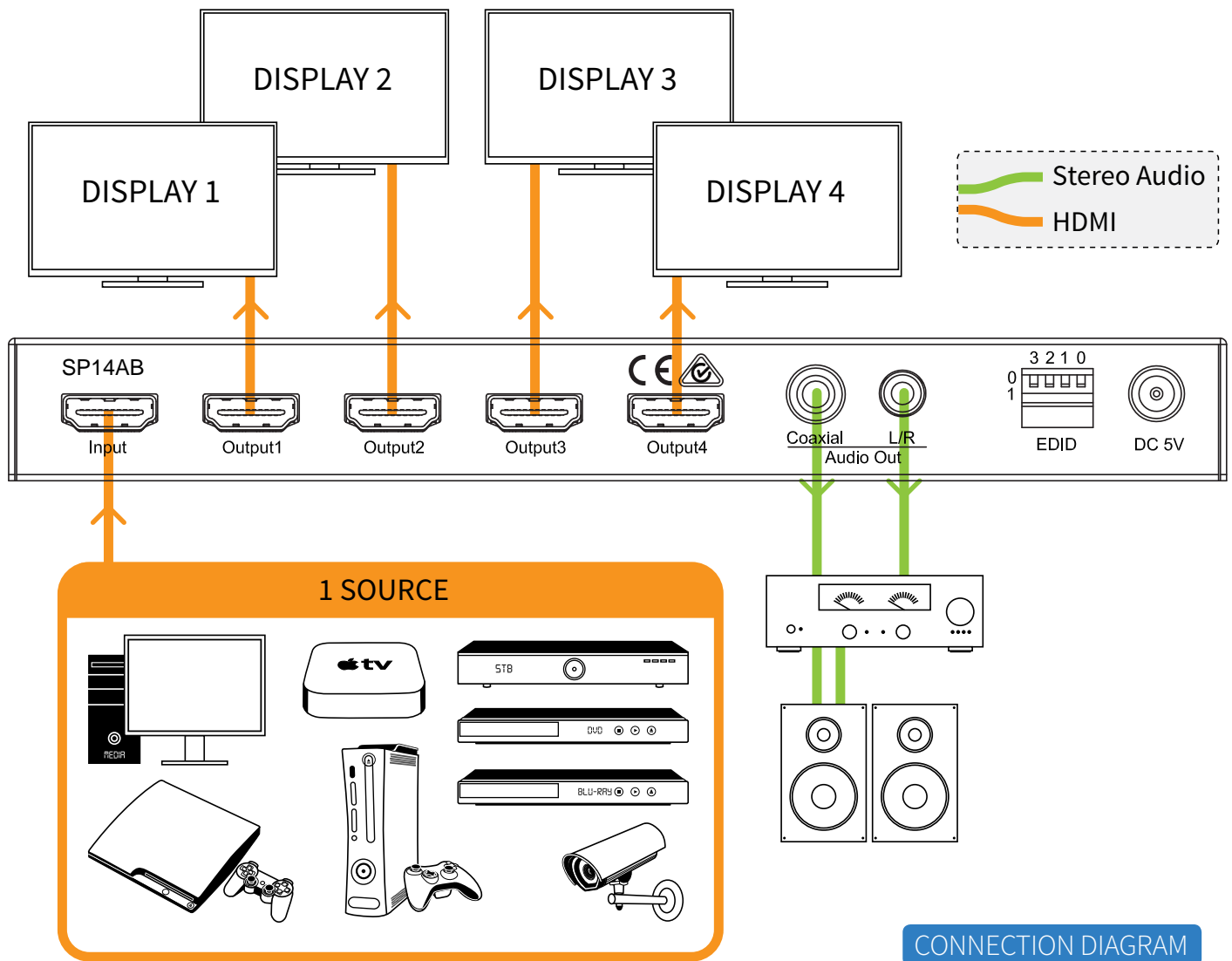
EDID Control

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



## Specifications

- Video Input Connectors:** 1x HDMI Type A, 19-pin, female
- Video Output Connectors:** 4x 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 D x H):** 196mm x 80mm 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/2A DC

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

## Package Contents:

- 1x SP14AB
- 1x 5V/2A 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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