

► SW41/21AU

User Manual

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.

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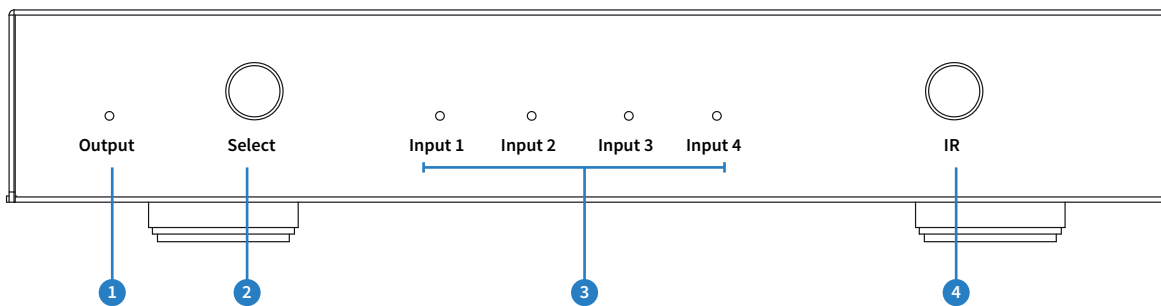
Introduction

Our SW41 is a 4-Way HDMI switch with integrated audio breakout. This SW41 has an auto-detect function which will switch the unit to the source which has most recently been powered on. The switch supports all video resolutions up to and including 4K.

FEATURES:

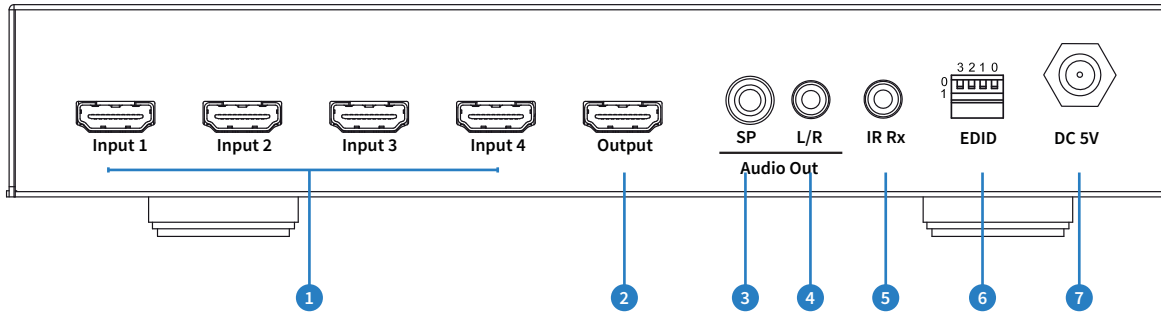
- Supports resolutions up to 1080p@60HZ, 48-bit deep colour, 4K@60 hz
- SW41 features 4x HDMI inputs that can be switched to single HDMI output
- SW21 features 2x HDMI inputs that can be switched to single HDMI output
- Dolby TrueHD and DTS-HD master audio pass through HDMI output
- Advanced EDID management for rapid integration of sources with display
- Digital coaxial audio (S/PDIF) and L/R analogue audio de-embedded from PCM audio on the selected HDMI feed.
- Multiple switching modes - push-in button, IR remote control and IR receiver 3.5mm port on rear panel (Only use compatible Blustream 5V IR products)
- Full 3D pass-through
- HDCP compliant

Front Panel



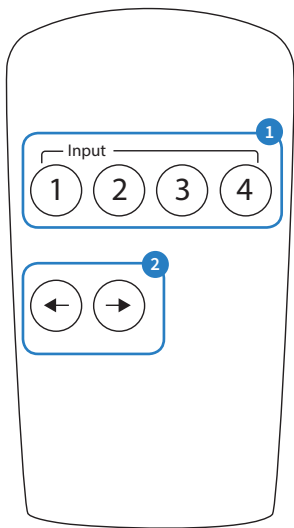
- 1 Output LED indicator – indicates if a display is connected to the switch HDMI output
- 2 Select button – press to toggle between HDMI inputs
- 3 Input LED indicator – Displays the HDMI input currently active
- 4 IR receiver window

Rear Panel



- 1 HDMI inputs (SW41 x4, SW21 x2) - Connect to HDMI source device
- 2 HDMI output – Connect to HDMI display device
- 3 Coaxial digital output – De-embedded from selected HDMI input)
- 4 Analogue audio Left/Right output (3.5mm stereo jack) – De-embedded from selected HDMI input. Only supports stereo PCM audio feeds
- 5 External IR input – Connect Blustream IR sensor or control processor to control switcher
- 6 EDID DIP switches – See below settings
- 7 Power port – Use supplied 5V/2A DC adaptor to power switcher

SW41AU – Remote Control



- 1 Direct HDMI input selection buttons
- 2 Scroll through HDMI inputs 1-2-3-4

Specifications

SW41AU

Video Input Connectors: 4x HDMI Type A

SW21AU

Video Input Connectors: 2x HDMI Type A

Video Output Connectors: 1x HDMI Type A

Audio Output Connectors: 1x Coaxial digital & 1x Analogue audio L/R (3.5mm stereo Jack)

IR Input Ports: 1x 3.5mm stereo Jack

Casing Dimensions (W x H x D): 196mm x 23mm x 94mm

Dimensions including connections (W x H x D): 196mm x 32mm x 104mm

Shipping Weight: 0.8kg

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

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 that 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 are to be outputted.

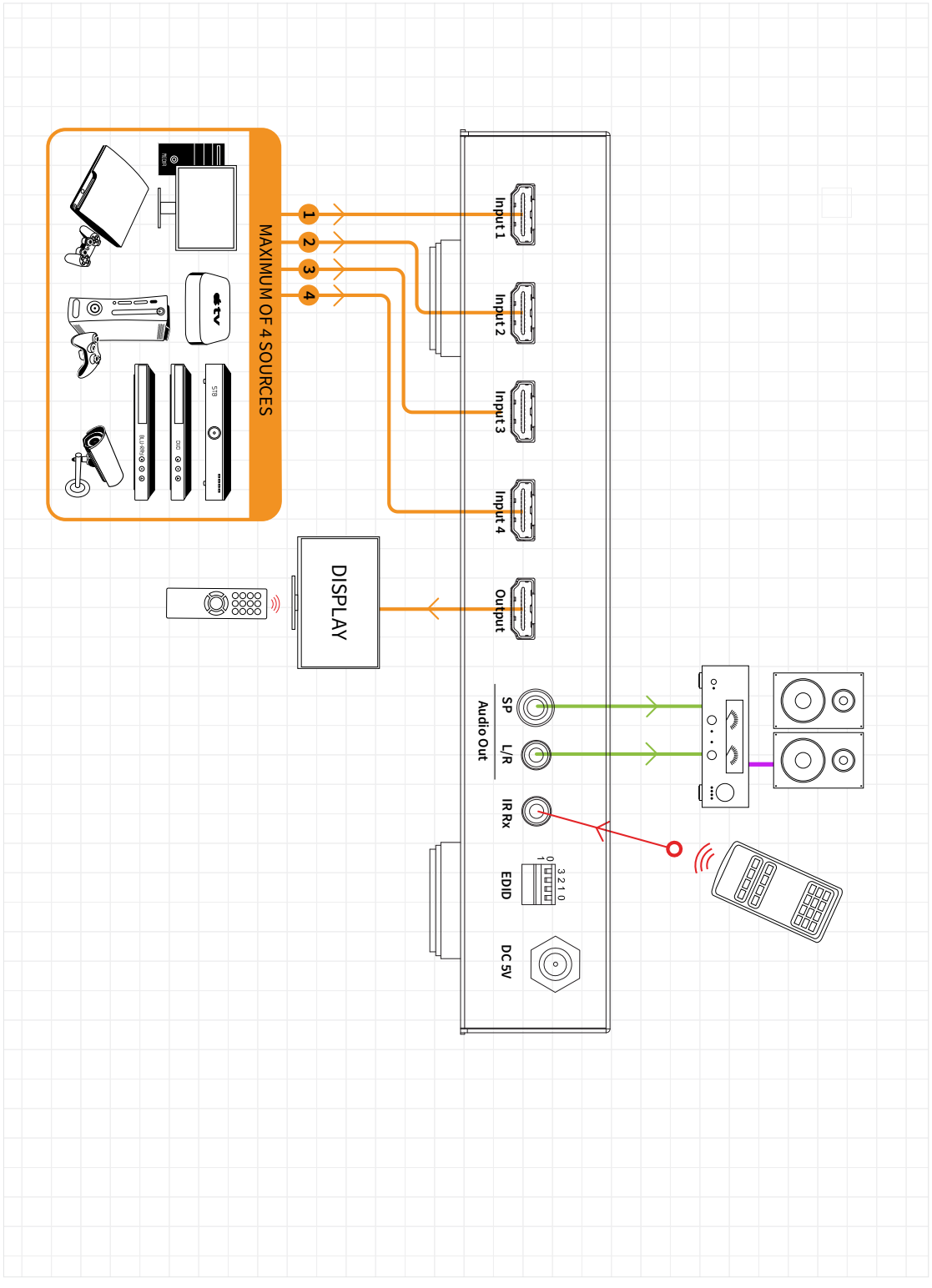
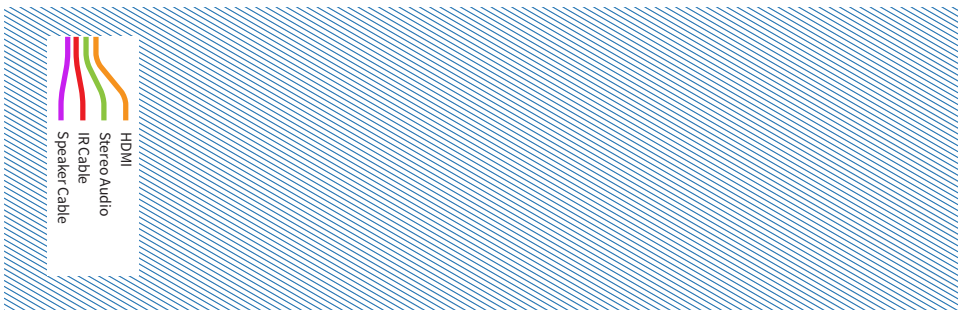
While the objective of EDID is to make connecting a digital display to a source a simple plug and play procedure issues do arise when multiple displays or video matrix switching is introduced because of the increased number of variables.

By pre-determining the video resolution and audio format of the source and display device we can remove some of the EDID hand shaking process thus making switching quicker and more reliable. instructions on these settings can be found on the right.

[DIP]=0000:	HDMI 1080p@60Hz, Audio 2CH PCM
[DIP]=0001:	HDMI 1080p@60Hz, Audio 5.1CH PCM/DTS/DOLBY
[DIP]=0010:	HDMI 1080p@60Hz, Audio 7.1CH PCM/DTS/DOLBY/HD
[DIP]=0011:	HDMI 1080i@60Hz, Audio 2CH PCM
[DIP]=0100:	HDMI 1080i@60Hz, Audio 5.1CH PCM/DTS/DOLBY
[DIP]=0101:	HDMI 1080i@60Hz, Audio 7.1CH PCM/DTS/DOLBY/HD
[DIP]=0110:	HDMI 1080p@60Hz, 3D Audio 2CH PCM
[DIP]=0111:	HDMI 1080p@60Hz, 3D Audio 5.1CH PCM/DTS/DOLBY
[DIP]=1000:	HDMI 1080p@60Hz, 3D Audio 7.1CH PCM/DTS/DOLBY/HD
[DIP]=1001:	HDMI 4K2K@60Hz, Audio 2CH PCM
[DIP]=1010:	HDMI 4K2K@60Hz, Audio 5.1CH PCM/DTS/DOLBY
[DIP]=1011:	HDMI 4K2K@60Hz, Audio 7.1CH PCM/DTS/DOLBY/HD
[DIP]=1100:	DVI 1280x1024@60HZ, Audio None
[DIP]=1101:	DVI 1920x1080@60HZ, Audio None
[DIP]=1110:	DVI 1920x1200@60HZ, Audio None

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Example Schematic
SW41/SW21



Package Contents:

- 1 x SW41AU / SW21AU
- 1x SW41-REMOTE
- 1 x 5V/2A DC power supply
- 1 x DC/USB cable

Maintenance:

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



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