

# XT-SW21-4K18G

## User Manual



## Introduction

Our XT-SW21-4K18G 4K HDMI 2.0 switcher distributes 2x HDMI sources to a single output. The switcher supports full HDMI 2.0 and HDCP 2.2 with video resolutions up to and including 4K @ 60Hz 4:4:4. The 2-Way switcher also includes the advanced features of audio breakout and EDID management.

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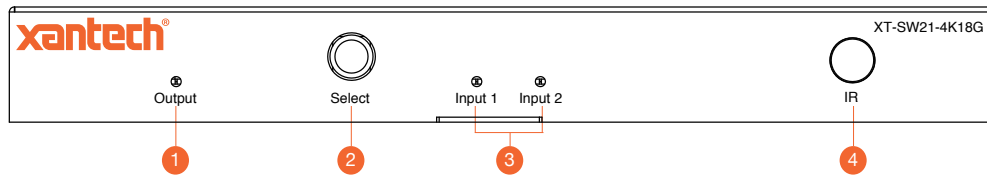
### Key Features

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- Features 2x HDMI inputs that can be switched to a single HDMI output
- Supports full HDMI 2.0 specification 4K UHD video (4K @ 60Hz 4:4:4)
- Supports 3D signal display
- Supports all industry standard video resolutions including VGA-WUXGA and 480i-4K
- Supports all known HDMI audio formats including Dolby TrueHD, Dolby Atmos, Dolby Digital Plus and DTS-HD Master Audio transmission
- HDMI audio breakout to analogue L/R audio and coaxial digital outputs concurrently
- Supports CEC bypass (Consumer Electronics Control)
- Controlled via front panel and IR
- Advanced EDID management
- HDCP 2.2 compliant

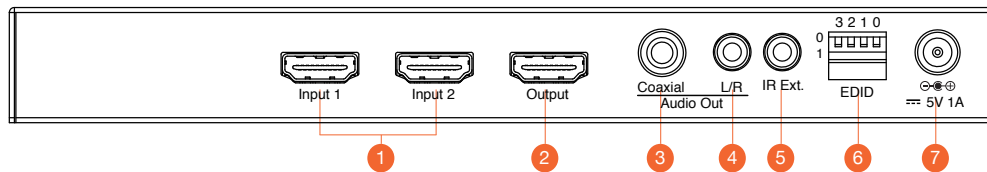
# Panel Description

## Front Panel



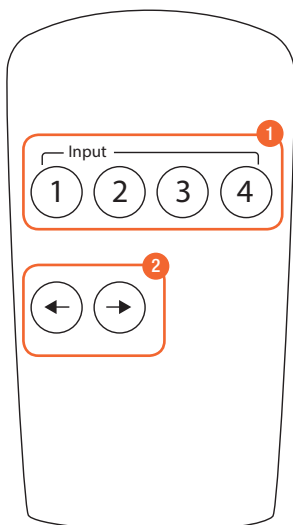
- 1 Output LED - Indicates if the HDMI output is connected to an active HDMI display
- 2 Select button - Press to scroll through HDMI source inputs
- 3 HDMI input LED - Indicates HDMI source input selected
- 4 IR receiver window - for receiving IR from Xantech XT-SW21-4K18G switcher remote control

## Rear Panel



- 1 HDMI inputs 1-2 - Connect to HDMI source devices
- 2 HDMI output 1 - Connect to a HDMI display
- 3 Coaxial digital audio output
- 4 Analog L/R audio output - 3.5mm stereo audio jack. Supports 2CH PCM only
- 5 External IR - Connect 12V Xantech IR receiver (supplied separately)
- 6 EDID DIP switch - Used to manage the video and audio resolution output by the connected source device. See below for further details.
- 7 Power port - Use included 5V/1A DC power adaptor

# Infrared Remote Control



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

## Adjusting The EDID Settings

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, from this information the source will discover what the best audio and video resolutions need to be outputted.

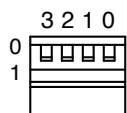
While the objective of EDID is to make connecting a digital display to a source a simple plug and play procedure, issues do arise when multiple displays or video matrix switching is introduced because of the increased number of variables.

By pre-determining the video resolution and audio format of the sources and display device you can reduce the time needed for EDID hand shaking thus making switching quicker and more reliable.

Configuration of EDID settings can be achieved using the product dip-switches on the XT-SW21-4K18G. EDID dip-switch settings are shown below.

**Note:** You must power cycle the product after making EDID changes. For some sources it may be necessary to power cycle the source after EDID changes have been made for the source to update its video & audio output settings.

### EDID Dip-switches



EDID

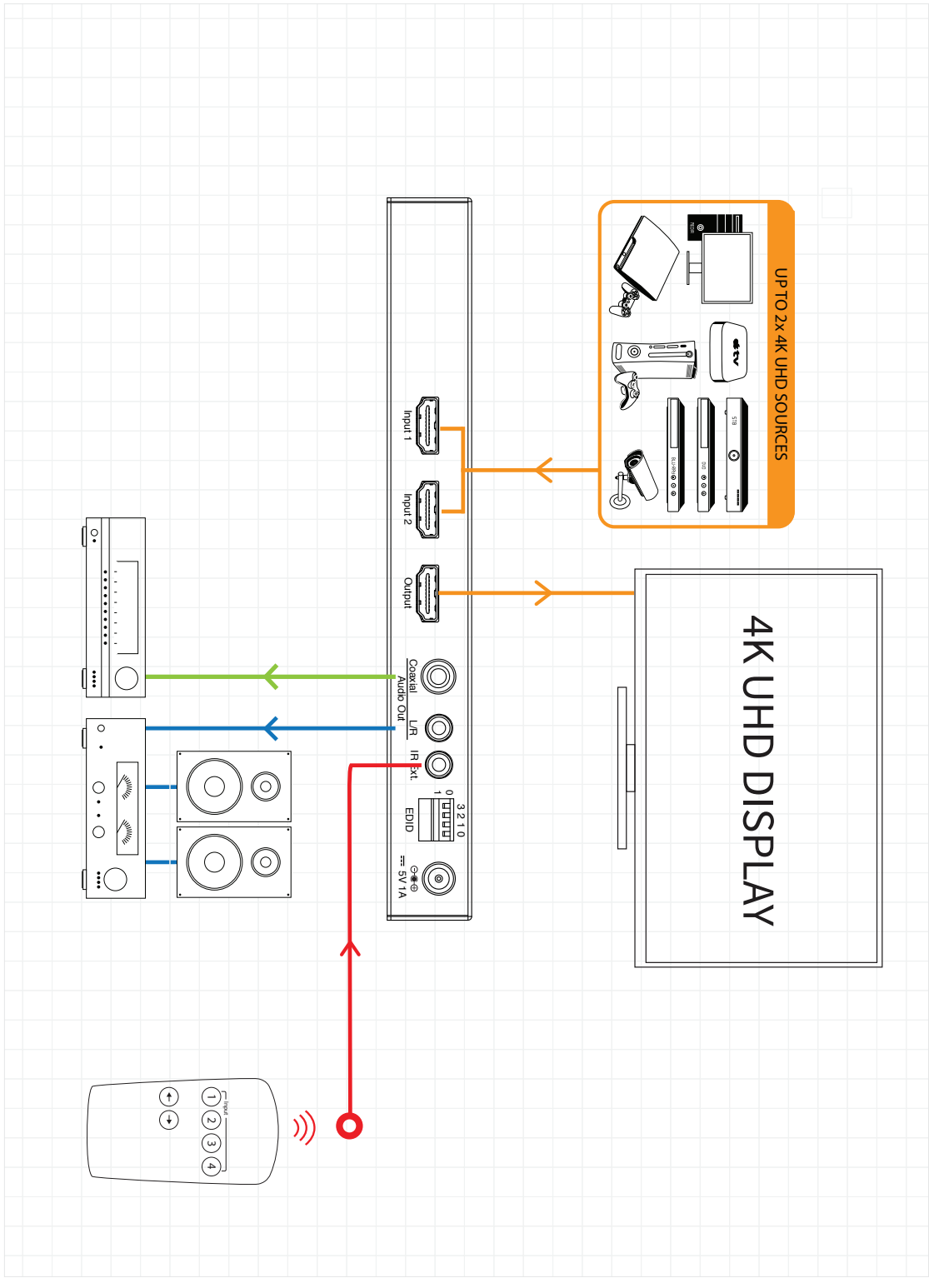
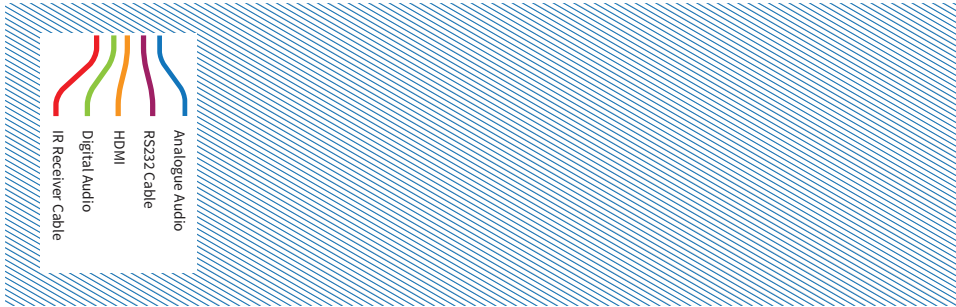
Dip-switch position '0' = Off

Dip-switch position '1' = On

- [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 4K@60Hz 4:2:0+4K@30Hz 4:4:4, Audio 2ch PCM
- [DIP]=0111: HDMI 4K@60Hz 4:2:0+4K@30Hz 4:4:4, Audio 5.1ch PCM/DTS/DOLBY
- [DIP]=1000: HDMI 4K@60Hz 4:2:0+4K@30Hz 4:4:4, Audio 7.1ch PCM/DTS/DOLBY/HD
- [DIP]=1001: HDMI 4K@60Hz 4:4:4, Audio 2ch PCM
- [DIP]=1010: HDMI 4K@60Hz 4:4:4, Audio 5.1ch PCM/DTS/DOLBY
- [DIP]=1011: HDMI 4K@60Hz 4:4:4, 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
- [DIP]=1111: Copy EDID from HDMI Output 1



Example Schematic  
XT-SW21-4K18G





## Certifications

### FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION** - changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### CANADA, INDUSTRY CANADA (IC) NOTICES

This Class B digital apparatus complies with Canadian ICES-003.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

### CORRECT DISPOSAL OF THIS PRODUCT

This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.

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