

# User Manual

## 4K 4x1 HDMI Multi-



Version: V2018.1.01

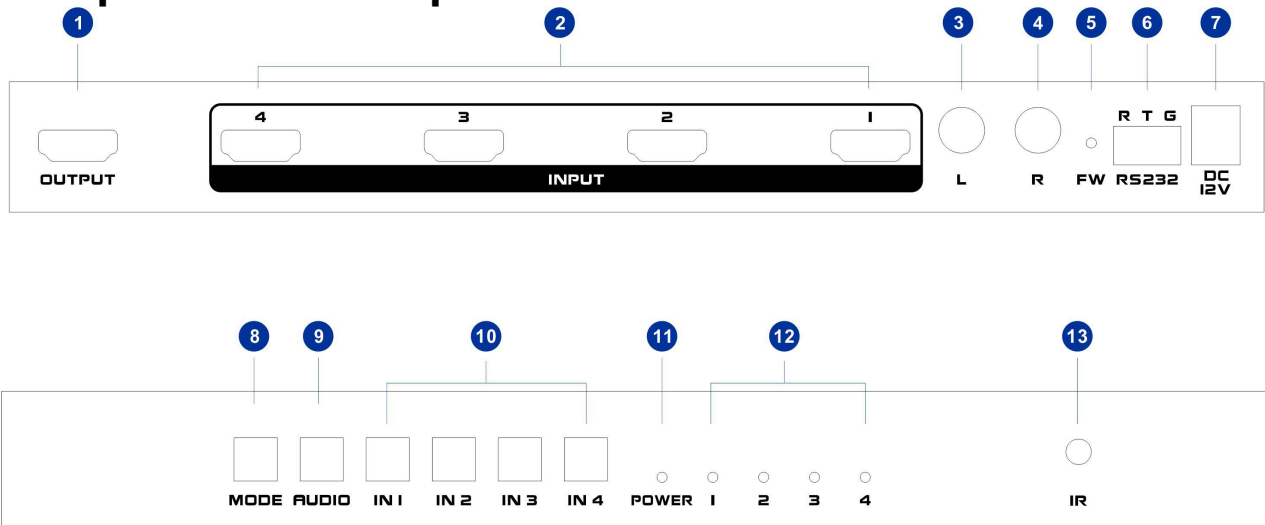
## 1. Introduction

The 4K 4x1 HDMI multi-viewer is a high performance high definition image split and seamless switching switcher, it can support 4 HDMI sources to show on one display, and can have several split modes. Meanwhile it can support seamless switching between the sources. It also supports flexible controlling, front panel buttons, IR control and RS232. With the pure hardware design, it more stable, easy to install and friendly use. It can be popularly used in different projects, such as the conference room, medical, education etc.

## 2. Features and specification

- Supports 4 HDMI input, and 1 HDMI output
- Supports 4 sources image split, and realize 4 channels of the 1080P signals to point to point display
- Supports seamless switching between the 4 HDMI sources
- Supports IR control
- Compatible with HDMI1.4, HDCP1.4 and DVI1.0
- Input resolution can be 1080P, 720P, 1080i, 1024X768, 1360X768
- Output resolution can be 1080P@60Hz, 2560\*1600@60Hz, 3840\*2160@30Hz
- Support audio de-embedded function, which means different video and audio combination
- HDMI cable distance: Input less than 15m, output less than 10m(recommend AWG24 cable)
- Power input: DC12V/2A
- Working temperature: 0-50℃
- Net weight: 0.8KG
- Dimension: 252\*104\* 26mm

## 3. Front panel and back panel



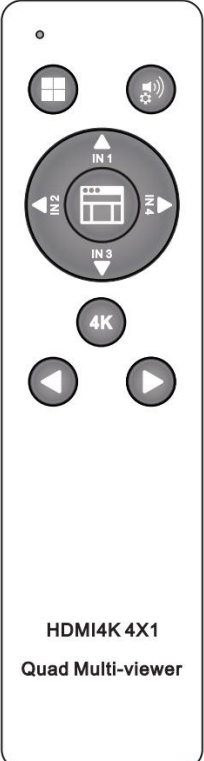


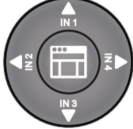




- 1: OUTPUT ---HDMI output port
- 2: INPUT1-4 ---HDMI input port
- 3: L---Left channel audio output
- 4: R ---Right channel audio output
- 5: FW ---firmware upgrade button
- 6: RS232--- RS232 control port
- 7: DC/12V ---DC12V power supply port
- 8: MODE ---video modes switching button

- 9: AUDIO ---audio switching
- 10: IN1-IN4 ---1 to 4 input sources button
- 11: Power --- power supply indicator
- 12: 1-4 ---source indicators
- 13: IR ---IR receiver

#### 4. Connection diagram



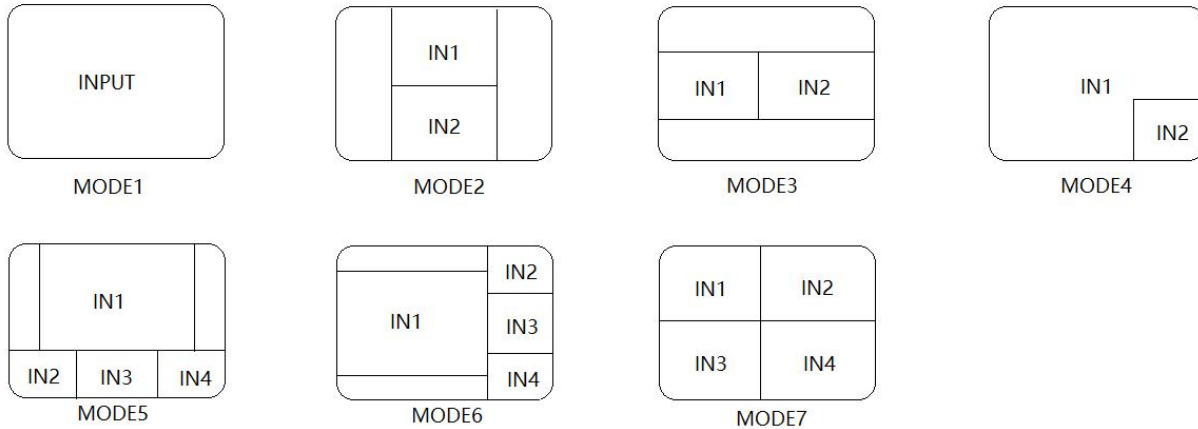
#### 5. Remote control

	Icon	Function
 <p>HDMI4K 4X1 Quad Multi-viewer</p>		Shortcut button for mode 7: split into 4 screens
		Audio selection or switching
		IN1-IN4: for the 4 sources selection  Working modes switching
		Resolution switching button
		Left function button
		Right function button

## 6. Working modes

This 4x1 HDMI image multi-viewer has 7 working modes, users can switch them by the display modes switching button on the remote control. Users also can use the Left/Right function button to switch the different sources under the specific working modes.

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working modes are listed as below:

## 7. RS232 control commands

Baud rate: 115200, data bit: 8, Stop bit: 1, Parity bit: None

Control command	Explanation
AA10000D	Single picture
AA20 000D	Two pictures(L&R scratching)
AA 30 00 0D	Two pictures(L&R original)
AA 40 00 0D	Two pictures(Up&down scratching)
AA 50 00 0D	Two pictures(Up&down original)
AA 60 00 0D	Two pictures(Picture in picture)
AA 70 00 0D	Four pictures(1 big on the top, and 3 on the bottom scratching)
AA 80 00 0D	Four pictures(1 big on the top, and 3 on the bottom original)
AA 90 00 0D	Four pictures(1 big on the left, and 3 on the right scratching)
AA A0 00 0D	Four pictures(1 big on the left, and 3 on the right original)
AA B0 00 0D	Four pictures(Original)
AA C0 00 0D	Audio switching to Channel 1
AA C1 00 0D	Audio switching to Channel 2

AA C2 00 0D	Audio switching to Channel 3
AA C3 00 0D	Audio switching to Channel 4
AA C4 00 0D	Audio mute
AA C5 00 0D	IN1 selection
AA C6 00 0D	IN2 selection
AA C7 00 0D	IN3 selection
AA C8 00 0D	IN4 selection
AA C9 00 0D	Working MODE switching
AA CA 00 0D	Left direction
AA CB 00 0D	Right direction
AA B1 00 0D	4K/2.5K/1080p resolution switching

## 8. Packing details

Name	Unit	QTY
4K HDMI 4x1	Unit	1
Power adapter	Pcs	1
Remote control	Pcs	1
User manual	Pcs	1

## 9. Common issues and trouble shooting

### **Q1: Very low resolution under 4 screens mode?**

*A: Check the output resolution, recommend to select 4K output if the display can support*

### **Q2: Snowy screen?**

*A: Check the cable connection and output resolutions, recommend to use 1080P*

### **Q3: Showing no signal or no image output on the display?**

*A: Check the HDMI cables, resolution of the display, and cable lengths (normally less than 10m)*