CS-4X1MVU HDMI Switch

Quick Start Guide

What's included
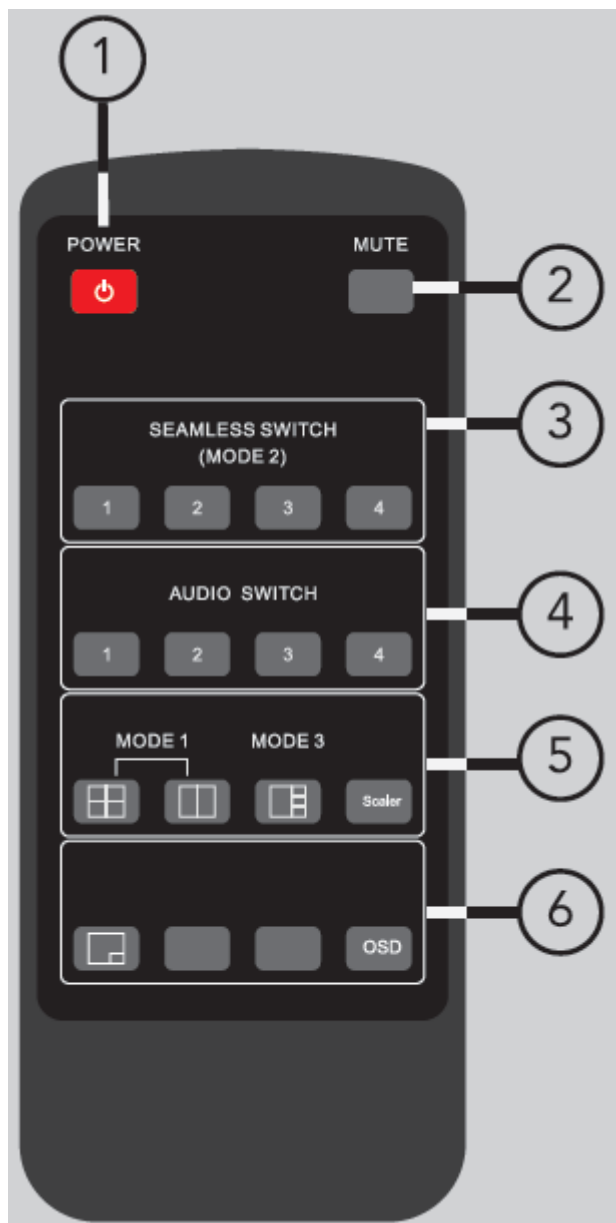

Main Unit

Remote Control

Adapter

Ports and Interfaces

Remote Control

Remote Control Size：2 x 4.8 x .37 inches

1. POWER: Power standby/power on
2. MUTE: Audio output mute on/off
3. Full Screen MODE 2: Press 1 ~ 4 button will select the corresponding channel and displayed in full screen as a seamless switcher.
4. AUDIO SWITCH: press 1 ~ 4 button will select the corresponding audio output.（In 2x2, 1x3 and PiP Modes）
5. MODE 1: The four HDMI input sources are displayed in 2x2 on one screen.

    a. Pressing the 2x2 ⊞ button will select the four video 2x2 display.

b. Pressing the 1x1 ⊡ button once will select 1x1 left and right two video mode and twice will select the 1x1 top and bottom two video mode.

c. MODE 3: Pressing the 1x3 ⊞ button displays the four HDMI input sources with one bigger and three smaller windows on one screen. In this mode, pressing the Seamless Switch 1 ~ 4 buttons will select the corresponding channel to the bigger window.

d. Scaler button: pressing the Scaler button will switch between 1080p, 1600p and 4K@30Hz.

6. PIP MODE: Pressing the PiP ⊡ button will display a single large video and a smaller video in the bottom right. Press the PiP ⊡ repeatedly to change the small PiP video location (cycle from right lower corner >left lower corner> left upper corner> right upper corner of the screen).

a. MODIFY ↻: Press this button when you want to change the different input source combination of display mode instead of the default view.

i. Simply press the Modify ↻ button after you have selected the viewing mode that you want to change (1x1, 1x3, 2x2, PiP) then press the Seamless Switch 1~4 Seamless Switch within 5 seconds. (See "Special Function Description" for more information)

b. FULL SCREEN: Press to change aspect ratio on modes that do not fill the entire screen. (e.g. 1x1 or 1x3)

c. OSD: Press to show the on screen descriptions of the content that is currently showing. Will disappear 3s later.
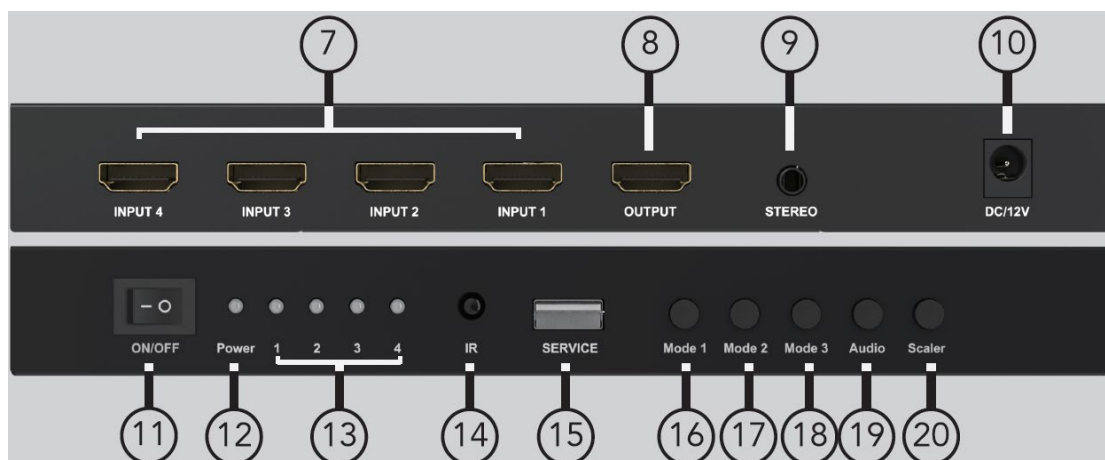
7. INPUT 1-4: HDMI Inputs 1-4

8.   OUTPUT: HDMI Output
9.   STEREO: Stereo Audio Output
10. DC/12V: DC 12V IN
11. ON/OFF: Power on/off switch
12. Power: Power LED Indicator
13. 1-4: Input activity LEDs
14. IR: IR Receiver
15. SERVICE: Firmware Update port for factory use only
16. Mode 1: Cycle through 2x2, 1x1, and PiP view modes
17. Mode 2: Cycle through 1~4 Seamless Switch mode
18. Mode 3: Cycle through 1x3 view mode
19. Audio: Audio channel output select button
20. Scaler button: pressing the Scaler button will switch between 1080p, 1600p and 4K@30Hz.

Special Function Description

For 2x2 ⊞ mode, the four HDMI input sources are displayed in 2x2 on one screen, press this key and it will be displayed with the below layout:

IN1	IN2
IN3	IN4

Press ⊞ + ↺ (modify key) + Seamless Switch 1~4. This will place the selected input in the top left quadrant. (You can choose the mode desire within 5s after pressing the 'modify' key, if no number is selected after 5s, the system will time out until the modify key is pressed again).

Note: If in the desired viewing mode, you only need to press ↺ (modify key) + Seamless Switch 1~4. If the current mode is in a different display mode you will need to press full key button combination as below.

Press ⊞ + ↺ (modify key) + Seamless Switch 1, then the layout will be:

IN1	IN2
IN3	IN4

Press ⊞ + ↺ (modify key) + Seamless Switch 2, then the layout will be:

IN2	IN1
IN4	IN3

Press ⊞ + ↻ (modify key) + Seamless Switch 3, then the layout will be:

IN3	IN4
IN1	IN2

Press ⊞ + ↻ (modify key) + Seamless Switch 3, then the layout will be:

| IN4	IN3
IN2	IN1

For 1x1 ▯▯ left /right mode, press this key once and it will display the below layout mode:

IN1	IN2

Press ▯▯ + ↻ (modify key) + Seamless Switch 1~4 (for left)+ Seamless Switch 1~4 (for right).

(You can choose the mode desire within 5s after pressing the 'modify' key, if no number is selected after 5s, the system will time out until the modify key is pressed again).

Note: If in the desired viewing mode, you only need to press ↻ (modify key) + Seamless Switch 1~4 (for left) + Seamless Switch 1~4 (for right). If the current mode is in a different display mode you will need to press full key button combination as below.

Press ▯▯ + ↻ (modify key) + Seamless Switch 1+ Seamless Switch 2 or 3 or 4, then the layout will be:

IN1	IN2

or

IN1	IN3

or

IN1	IN4

Press ▯▯ + ↻ (modify key) + Seamless Switch 2+ Seamless Switch 1 or 3 or 4, then the layout will be:

| IN2 | IN1 | | | IN2 | IN3 | | | IN2 | IN4 |

or ... or

Press ⊞ + ↻ (modify key) + Seamless Switch 3+ Seamless Switch 1 or 2 or 4, then the layout will be:

| IN3 | IN1 | | | IN3 | IN2 | | | IN3 | IN4 |

or ... or

Press ⊞ + ↻ (modify key) + Seamless Switch 4+ Seamless Switch 1 or 2 or 3, then the layout will be:

| IN4 | IN1 | | | IN4 | IN2 | | | IN4 | IN3 |

or ... or

For 1x1 ⊞ up /down mode, press this key twice and it will display the below layout:

| IN1 |
| IN2 |
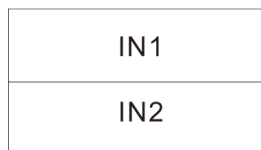
Press ⊞ + ↻ (modify key) twice + Seamless Switch 1~4 (for left)+ Seamless Switch 1~4 (for right). (You can choose the mode desire within 5s after pressing the 'modify' key, if no number is selected after 5s, the system will time out until the modify key is pressed again).

Note: If in the desired viewing mode, you only need to press ↻ (modify key) + Seamless Switch 1~4 (for left) + Seamless Switch 1~4 (for right). If the current mode is in a different display mode you will need to press full key button combination as below.

Press ⊞ twice + ↻ (modify key) + Seamless Switch 1 and Seamless Switch 2 or 3 or 4, then the layout will be:

| IN1 | | | IN1 | | | IN1 |
| IN2 | | | IN3 | | | IN4 |

or ... or
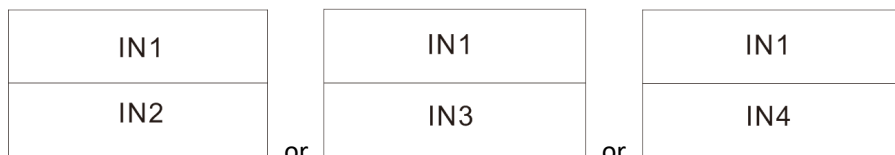
Press ⊞ twice + ↻ (modify key) + Seamless Switch 2 and Seamless Switch 1 or 3 or 4, then the layout will be:

|		
IN2	IN2	IN2
IN1	IN3	IN4

or ... or
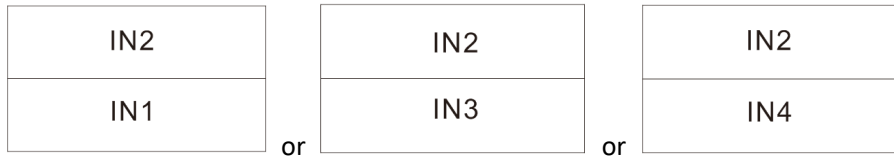
Press ⬚ twice + ⟲ (modify key) + Seamless Switch 3 and Seamless Switch 1 or 2 or 4,

then the layout will be:

IN3	IN3	IN3
IN1	IN2	IN4

or ... or

Press ⬚ twice + ⟲ (modify key) + Seamless Switch 4 and Seamless Switch 1 or 2 or 3,

then the layout will be:

IN4	IN4	IN4
IN1	IN2	IN3

or ... or
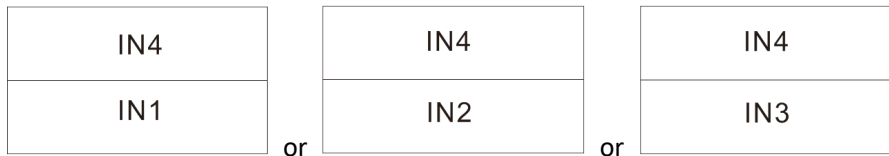
For 1x3 ⬚ with one big and three small pictures, press the 1x3 ⬚ and it will be displayed with the below layout:

IN1	IN2
	IN3
	IN4
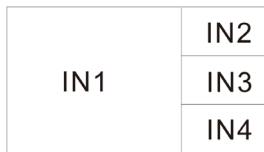
Press ⬚ + ⟲ (modify key) + Seamless Switch 1~4. (You can choose the mode desire within 5s after pressing the 'modify' key, if no number is selected after 5s, the system will time out until the modify key is pressed again).

Note: If in the desired viewing mode, you only need to press ⟲ (modify key) + Seamless Switch 1~4 (for left) + Seamless Switch 1~4 (for right). If the current mode is in a different display mode you will need to press full key button combination as below.
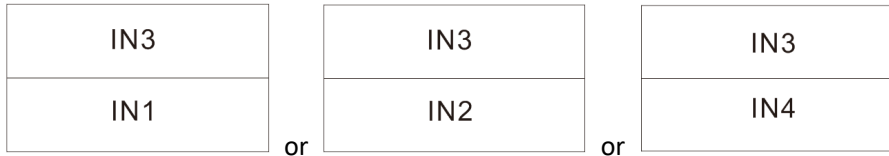
Press ⬚ + ⟲ (modify key) + Seamless Switch 1, the output layout will be:

IN1	IN2
	IN3
	IN4
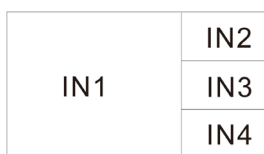
Press ⬚ + ⟲ (modify key) + Seamless Switch 2, the output layout will be:

	IN1
IN2	IN3
	IN4

Press ⊞ + ↺ (modify key) + Seamless Switch 3, the output layout will be:

	IN1
IN3	IN2
	IN4

Press ⊞ + ↺ (modify key) + Seamless Switch 4, the output layout will be:

	IN1
IN4	IN2
	IN3

For PIP mode, press ▭ and it will be displayed with the below layout:

IN1	
	IN2

Press PiP ▭ + ↺ (modify key) + Seamless Switch 1~4 (for large video)+ Seamless Switch 1~4 (for small video). (You can choose the mode desire within 5s after pressing the 'modify' key, if no number is selected after 5s, the system will time out until the modify key is pressed again).

Note: If in the desired viewing mode, you only need to press ↺ (modify key) + Seamless Switch 1~4 (for large video) + Seamless Switch 1~4 (for small video). If the current mode is in a different display mode you will need to press full key button combination as below.

Press ▭ + ↺ (modify key) + Seamless Switch 1 + number 2 or 3 or 4, the output layout will be:

IN1	
	IN2

or

IN1	
	IN3

or

IN1	
	IN4

Press ▭ + ↺ (modify key) + Seamless Switch 2 + number 1 or 3 or 4, the output layout will be:

IN2	
	IN1

or

IN2	
	IN3

or

IN2	
	IN4
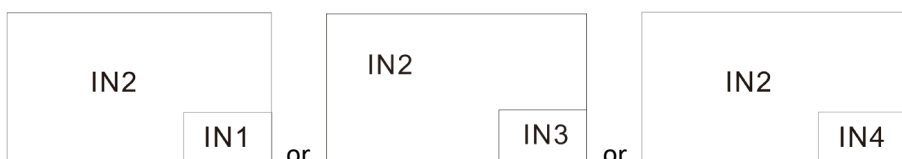
Press ⬓ + ↻ (modify key) + Seamless Switch 3 + number 1 or 2 or 4, the output layout

will be:

```
┌─────────────────┐       ┌─────────────────┐       ┌─────────────────┐
│                 │       │                 │       │  IN3            │
│     IN3         │       │     IN3         │       │                 │
│         ┌──────┐│       │         ┌──────┐│       │         ┌──────┐│
│         │ IN1  ││  or   │         │ IN2  ││  or   │         │ IN4  ││
└─────────┴──────┘│       └─────────┴──────┘│       └─────────┴──────┘│
```

Press ⬓ + ↻ (modify key) + Seamless Switch 4 + number 1 or 2 or 3, the output layout

will be:

```
┌─────────────────┐       ┌─────────────────┐       ┌─────────────────┐
│  IN4            │       │                 │       │                 │
│                 │       │     IN4         │       │     IN4         │
│         ┌──────┐│       │         ┌──────┐│       │         ┌──────┐│
│         │ IN1  ││  or   │         │ IN2  ││  or   │         │ IN3  ││
└─────────┴──────┘│       └─────────┴──────┘│       └─────────┴──────┘│
```

Note: Press the PiP ⬓ button to cycle control the location of the PiP small video shown below:

```
┌─────────────────┐       ┌─────────────────┐       ┌─────────────────┐
│  IN1            │       │                 │       │┌──────┐         │
│                 │       │     IN1         │       ││ IN2  │ IN1     │
│         ┌──────┐│       │┌──────┐         │       │└──────┘         │
│         │ IN2  ││ »»    ││ IN2  │         │ »»    │                 │ »»
└─────────┴──────┘│       │└──────┘         │       │                 │
```

```
┌─────────────────┐
│         ┌──────┐│
│         │ IN2  ││
│  IN1    └──────┘│
│                 │
└─────────────────┘
```
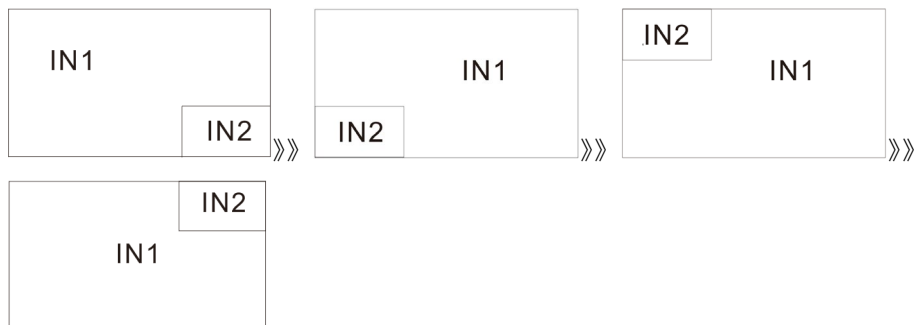
Note: the PiP location is saved when video selection is changed, and vice versa.

Connection Diagram

| HDMI Cable | 3.5mm Cable | DC Power Cable | → HDMI signal flow |
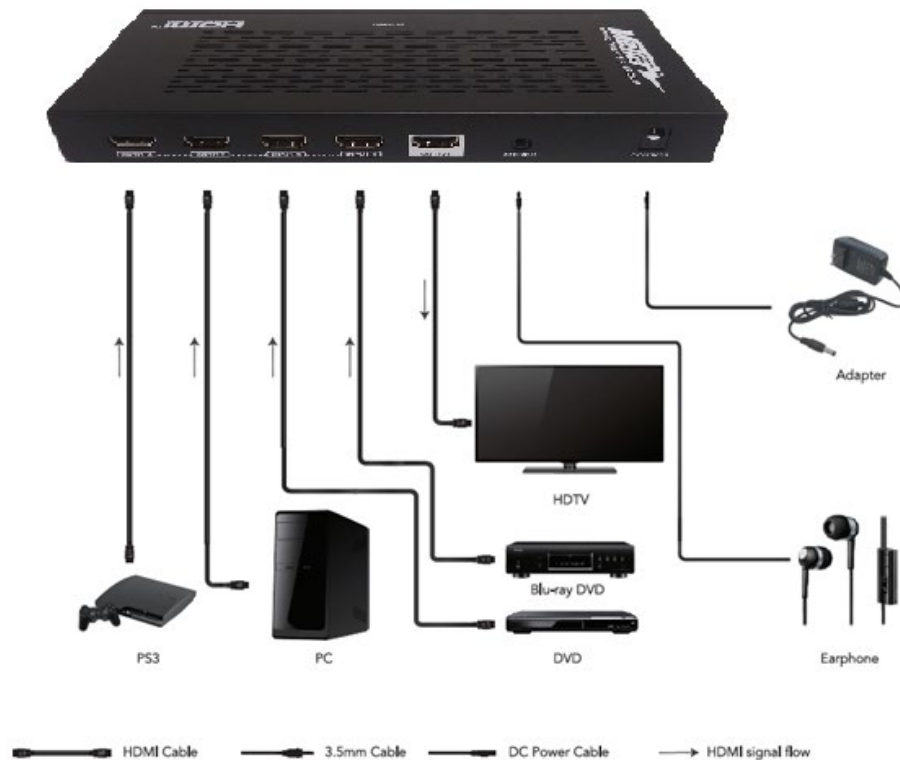
Introduction

The CS-4X1MVU is a high performance HDMI™ 4X1 Quad Multi-Viewer with seamless Switcher. It supports four HDMI™ input sources to be displayed on one screen with four multi-view modes. As a switcher, it can also seamlessly switch the four HDMI™ input freely. The product can be controlled by the front panel buttons or the IR remote control.

Features

- Compliant with HDCP 1.4
- Supports modifying the combination of the input sources as needed in all multi-view modes
- Supports changing the aspect ratio on modes that do not fill the entire screen
- Supports moving the PiP small video location to any one of the four corners of the screen
- Supports power-off memory function which can keep the last setup status when power is cycled
- Supports multiplexed HDMI 4-input and 1-output
- Supports up to 4K@30Hz high definition resolution
- Supports 4 by 1 quad multi-viewer and seamless switching (with same resolution)
- Supports scaling up and down video
- Supports multi-output resolution 1080p, 1600p and 4K@30Hz
- Supports digital audio format LPCM/AC3/DTS
- Supports manual control and IR remote control
- Supports USB upgrade

Specification

Note: Specification is subject to change without notice.

Input Ports	HDMI x 4
Output Ports	HDMI x 1, Stereo x 1
Vertical Frequency Range	50/60Hz
Video Bandwidth	3.0Gbps/300MHz per channel(9Gbps all channel)
Interlaced(50&60Hz)	480i,576i,1080i
Progressive(50&60Hz)	480p,576p,720p,1080p,4K@30Hz
Limited Warranty	1 Year Parts and Labor
Operating Temperature	32 °F to 158°F
Storage Humidity	5% to 90% RH non-condensation
Power Supply	12V DC
Power Consumption (Max)	8W
Switcher Unit Cert	CE, FCC, RoHS
Power Supply Cert	CE, FCC, RoHS
Power Adapter Standard	US Standard
Dimension(LxWxH)	8.39 x 3.94 x .98 inches
Net Weight	1 lb
Material	Metal
User Manual	English

Troubleshooting

Problems	Causes	Solutions
Power light is off and product is not working; Signal light is off and no video output, black screen.	Is the power adapter properly connected and the power on/off button turned on? Is the HDMI Cable properly plugged into the inputs or Outputs? Is the HDMI Cable up to standards?	Please check if the power adapter is connected properly and turn on the power on/off switch; Please connect the player, product, and display devices according to the instructions; if not, please replace the input and output connections with new HDMI cables
Screen splash or pink screen	HDMI cable may not be good quality or the cable is too long	Please use the standard HDMI cable, the input/output cable length at 1080p can't exceed 10M to 10M, 4K@30Hz can't exceed 5M to 5M

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