

# Brightlink

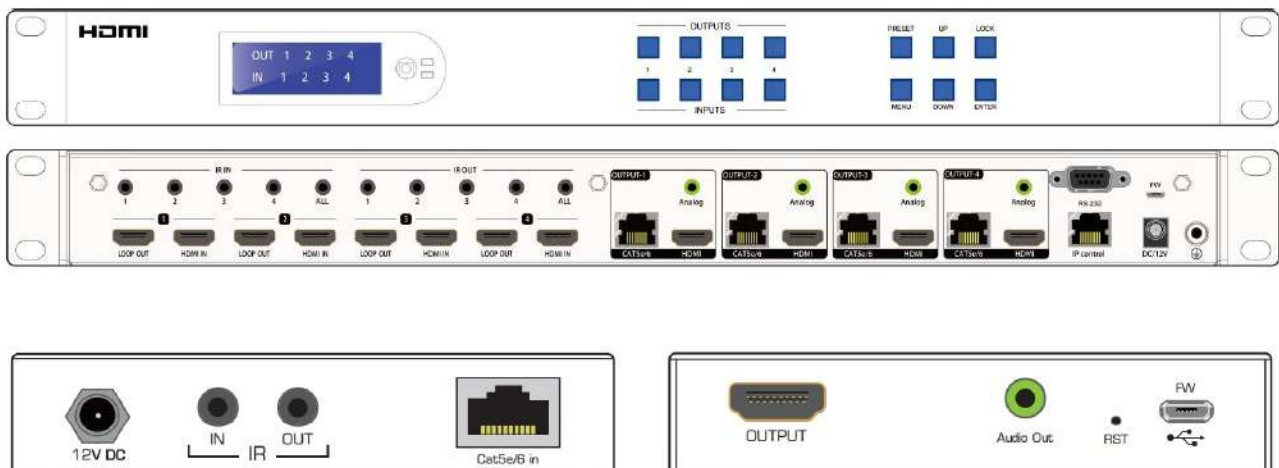
## 4K 4x4 SEAMELESS Matrix with Extender & Videowall

Product Number: **BL-4X4-VW224K-CAT**

Product Description: 4K 4x4 SEAMELESS Matrix with Extender & Videowall

Product Type: HDMI Seamless Matrix

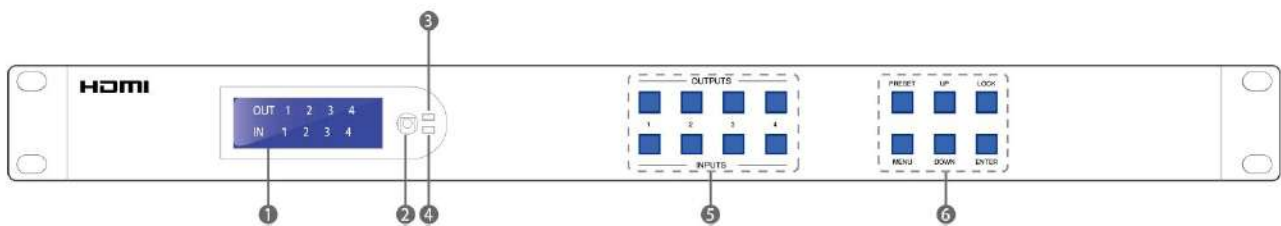
### 2 Images



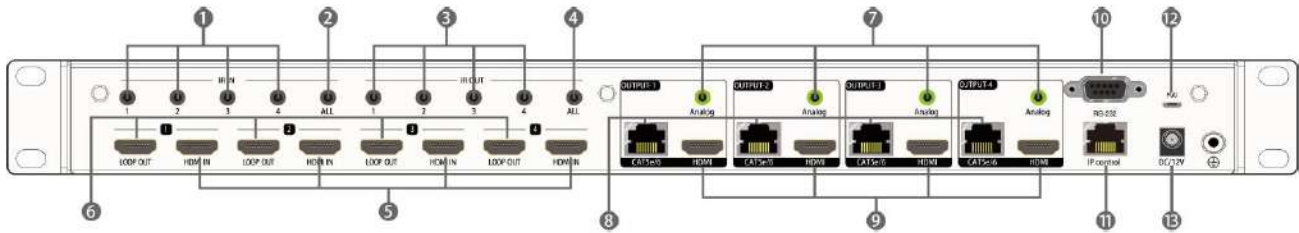
### 3 Features

- 4x4 Seamless matrix with Receiver
- Support resolution for HDMI input 4K@30Hz 4:4:4, Output 4K@30Hz 4:4:4
- Transmission is 90m under 1080P, 70m under 4K
- Support 4x HDMI Inputs, 4x HDMI Loopouts, 4x HDMI Outputs, 4x DSC outputs
- Support downscaler
- Support HDCP 2.2/1.X
- Support EDID management
- Support 2x2 videowall and cascade to create Max.10x10, 180° rotation and mirroring
- Support Audio out
- Support POC (power by matrix)
- Support panel button, Remote, RS-232, Web GUI, IP control

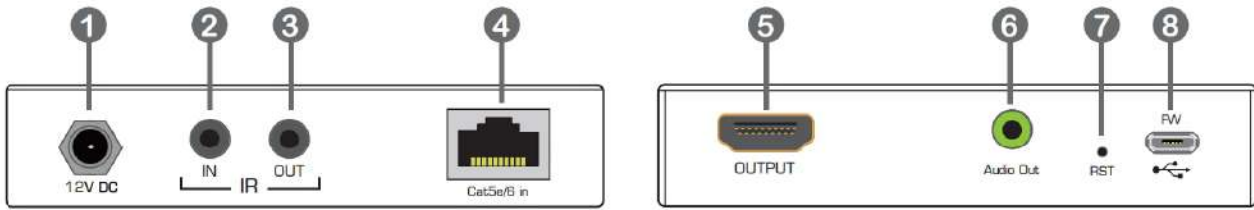
### 4 Interface Definition



NO	Name	Description
1	LCD	Displays the setting and information
2	IR window	For remote reception of signals
3	Power LED	LED Indicator Color: Green Light on: System working Light Blink: System error
4	IR LED	LED Indicator Color: Yellow Light Blink: When receiving an IR signal
5	HDMI IN/OUTPUT	Press the “OUT” button (1-4) of the outputs you wish to route a source to. Press the “IN” button of the input (1-4) you wish to route to the selected outputs.
6	Function button	Preset: To select and activate the preferred preset UP/Down: Press to move up and down or adjust selections within menu selection Lock: Press and hold to lock the front panel buttons. Press and hold again to unlock MENU: Press this button to access the LCD menu system, EDID setting can be managed and IP system settings are displayed Enter: Press to confirm a selection within LCD Menu or to go deeper into a menu item

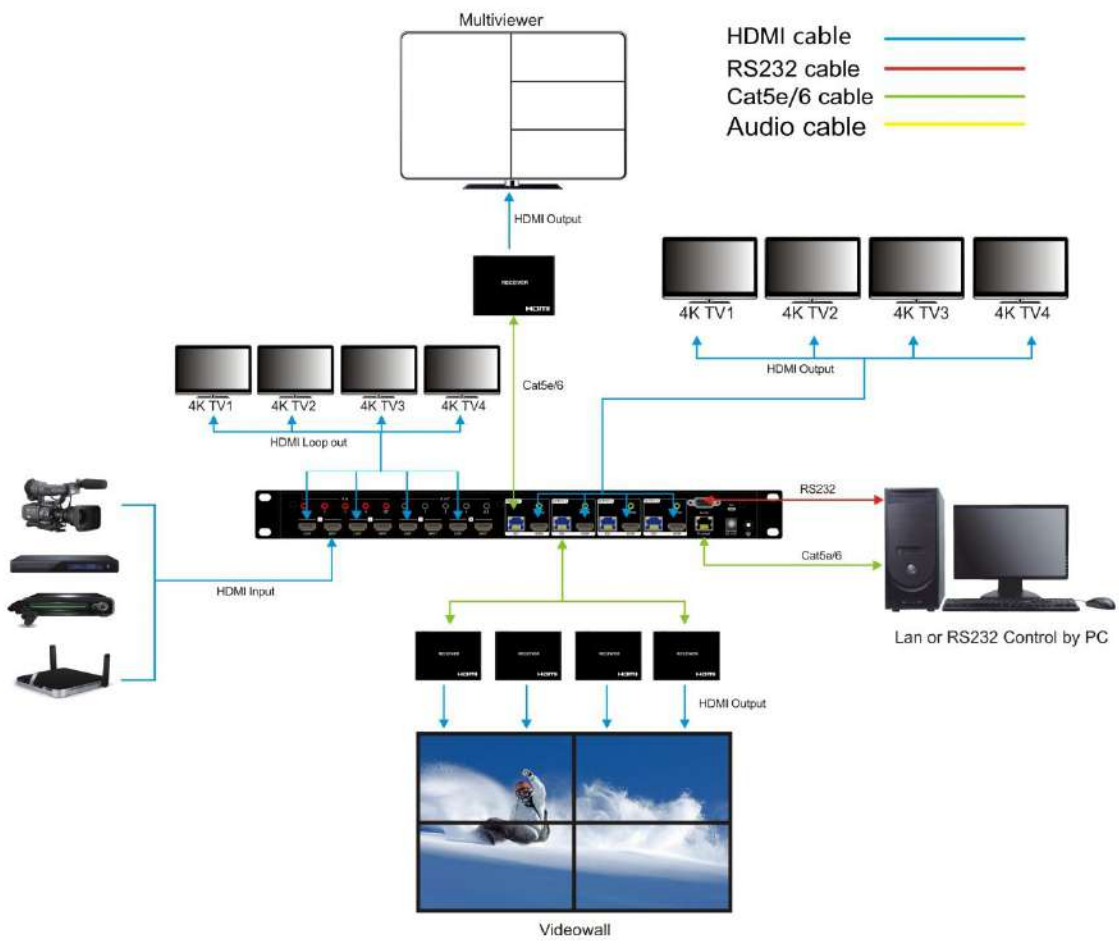


No.	Name	Description
1	IR IN 1-4	Connect to the IR extenders for IR signal reception. Ensure that the remote being used is within the direct line-of-sight of the IR extender
2	All IR IN	Connect to the IR extender for IR signal reception of the remote control of the device or the source and display equipment. Ensure that remote being used is within the direct line-of-sight of the IR extender
3	IR OUT 1-4	Connect to the IR blasters for IR signal transmission. Place the IR blaster in direct line-of-sight of the equipment to be controlled
4	All IR OUT	Connect to the IR blaster for IR signal transmission of the source or display equipment. Place the IR blaster in direct line-of-sight of the equipment to be controlled
5	HDMI IN1-4	Connect to the HDMI input source devices like DVD, X-Box
6	HDMI loopout 1-4	Connect to the HDMI output sink devices like TV
7	Analog Out	3.5mm interface to connect amplifier or speaker with 2CH
8	HDMI out 1-4	Connect to the HDMI output sink devices like TV
9	CAT5e/6/7 OUT	Connect these CAT outputs to the CAT input port of the receiver units with a single CAT5e/6/7 cable for signal transmission
10	RS-232	Connect directly to PC/laptop to send RS232 commands to control it
11	IP Control	Connect directly to PC/laptop to control it via WEBGUI
12	FW	Micro USB to upgrade firmware
13	12V DC	Plug 12V Power adapter into the unit



No	Name	Description
1	12V DC	Plug 12V Power adapter into the unit
2	IR IN	Connect to the IR extenders for IR signal reception. Ensure that the remote being used is within the direct line-of-sight of the IR extender
3	IR OUT	Connect to the IR blaster for IR signal transmission of the source or display equipment. Place the IR blaster in direct line-of-sight of the equipment to be controlled
4	Cat5e/6 IN	Connect to Matrix with a single CAT5e/6/7 cable for signal transmission
5	OUTPUT	Connect to the HDMI output sink devices like TV
6	AUDIO Out	3.5mm interface to connect amplifier or speaker with 2CH
7	RST	Factory reset
8	FW	Micro USB to upgrade firmware

# 5 Application Scenario



## 6. Technical Specifications

Input Port	4XHDMI
Output Port	4XHDMI, 4XCat5e/6 Outport, 4x HDMI Loopout
INPUT Resolution	3840 x 2160 @60 Hz 4:4:4, 8Bit
OUTPUT Resolution	Loopout: 3840 x 2160 @60 Hz 4:4:4, HDMI Out: 3840 x 2160 @30 Hz 4:4:4, 8Bit
Compliance Standards	HDMI 2.2/HDCP1.X
Pixel Clock	340MHZ
Maximum Data Rate	10.2Gbps
Audio Format	2CH PCM
Baud Rate	9600-115200
Telnet	IP Address: 192.168.1.168 Net Mask: 255.255.255.0 Gateway: 192.168.1.1 TCP Port: 5000 Telnet Port: 23 HDCP: OFF
Control	Panel buttons, remote control, RS-232 , Web GUI,IP
Operating Temperature	0 to + 40°C (32 to + 104 °F)
Storage Temperature	-20 to +60°C (-4 to +140 °F)
Humidity	10% to 90%, non-condensing
Product Supply	12V
ESD Protection	Human Body Model: ±8kV (air-gap discharge)/ ±4kV (contact discharge)

## 7. Packaging

Package Requirement			
No.	Name	Description	Remark
1	Package contents	1x Seamless Matrix 4x Receiver 1x Remote Control 1x DC 12V 5x IR-TX 5x IR-RX 1x CD for usermanual 1x USB type A to Micro type B cable 4x rubber footpad 2x fixing ears and screws	

## 8. Remote Control Description

- ① Power on/off
- ② Mute button
- ③ Next source
- ④ Previous source
- ⑤ MENU button: to enter the main menu interface or return to the previous menu interface
- ⑥ ▲▼◀▶: Moves the highlight to select a displayed. OK: Enters the selected item.
- ⑦ Display and mask the OSD menu
- ⑧ Same as the menu button
- ⑨ Select the input sources under video matrix mode, such as: Output 1 display input 1, or Output 1,2,3,4 display input 1 and so on.

