USER MANUAL

Multi-View KVM Switch

Thank you for your purchase of our company's Multi-View KVM Switch. This product offers support for 4/8/16 input channels and two output channels. The OUT B monitor can display either 4/8/16 dynamic high-definition screens simultaneously or a single screen from any of the input sources. Meanwhile, the OUT A monitor displays the content from any chosen input source. The device features various modes, including duplication, extension, splitting, picture-in-picture, among others. With the capability to switch remotely between any input, ranging from PC1 to PC16, users can easily control both single and multiple screens. Additionally, this HDMI KVM switch is compatible with mouse and keyboard operations, making it a versatile tool. It's especially well-suited for use in sectors like monitoring, securities, finance, multi-screen offices, image production, command centers, industrial control, and healthcare. This user manual takes the example of 8 input 2 output Multi-View KVM Switch.

◆ **Product Features：**

· **Multiple Display Modes:** Supports single-screen, quad-screen and eight-screen modes, including split and picture-in-picture functionalities.
· **Three Operation Modes:** Through-screen mode (dragged freely among PC1 to PC8), switching mode and synchronization mode.
· **Resolution Support:** 3840×2160@ 30Hz and 1080p@ 60Hz. The display resolution for both input and output is fixed.
· **Device Synchronization:** Allows synchronized switching of USB mouse and keyboard with the screen, facilitating the operation of various input devices.
· **USB Standard:** Adopts USB 3.0, offering transfer rates of up to 5Gbps.
· **Four Switching Mode:** a. push button switch   b. wired remote push button switch
                          c. keyboard hotkey switch   d. click mouse switch
· **Compatibility:** Supports multiple operating systems, including iOS, Windows, Android, DOS, Linux, Unix, and more.

◆ Data Sheet：

ITEM	Data Sheet	4in 2out	8in 2out	16in 2out
KVM output （Consel）	Keyboard	1×USB Type AF	1×USB Type AF	1×USB Type AF
	USB 3.0 Hub	2×USB Type AF	2×USB Type AF	2×USB Type AF
	Mouse	1×USB Type AF	1×USB Type AF	1×USB Type AF
	HDMI	2 × HDMI F	2 × HDMI F	2 × HDMI F
	Stereo 3.5	2	2	2
Computer （Input）	HDMI	4 × HDMI F	8 × HDMI F	16 × HDMI F
	USB3.0	4×USB BF	8×USB BF	16×USB BF
DC Socket		1×DC5.5×2.5	1×DC5.5×2.5	1×DC5.5×2.5
Power Consumption		5W	10W	15W
Environment	Operating Temperature	0-50℃	0-50℃	0-50℃
	Storage Temperature	-20-60℃	-20-60℃	-20-60℃
	Humidity	0-80%RH, Non-condensing	0-80%RH, Non-condensing	0-80%RH, Non-condensing
Physical Properties	Housing	Metal	Metal	Metal
	Weight	0.65KG	1.05KG	2.1KG
	Dimensions(L×W×H)	200×75×42MM	270×110×42MM	440×150×42MM

## ◆ Installation & connection diagram：

In the event of a total power shutdown, connect all input and output devices as indicated in the product connection diagram. First, switch on the KVM. Next, power up the monitor. Lastly, turn on each input device sequentially. This completes the startup process, and the system will then be in the active state.

**Application Scenario I:** Connecting 8 computers
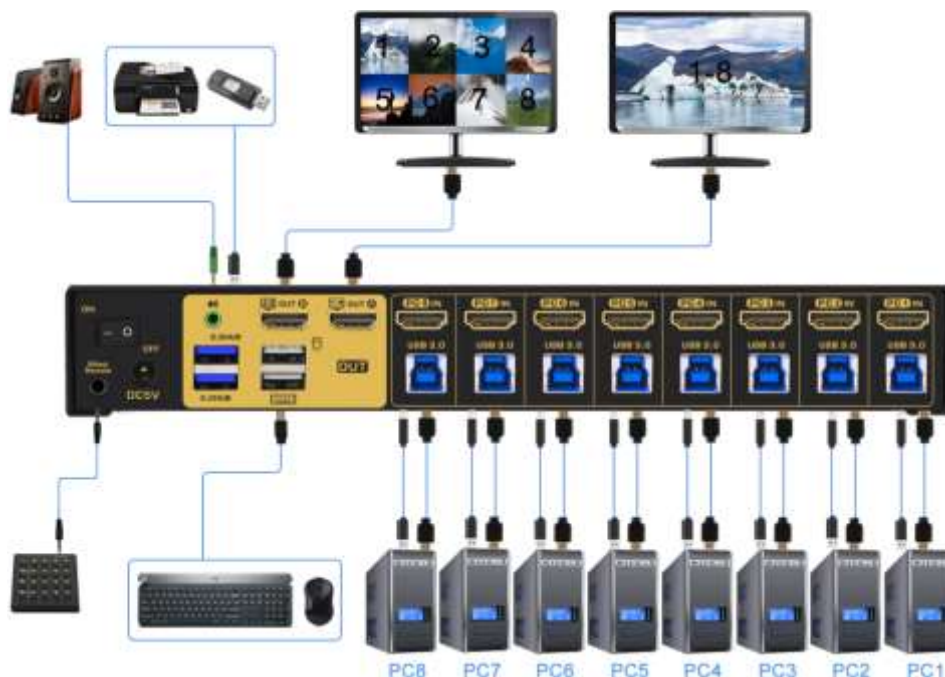
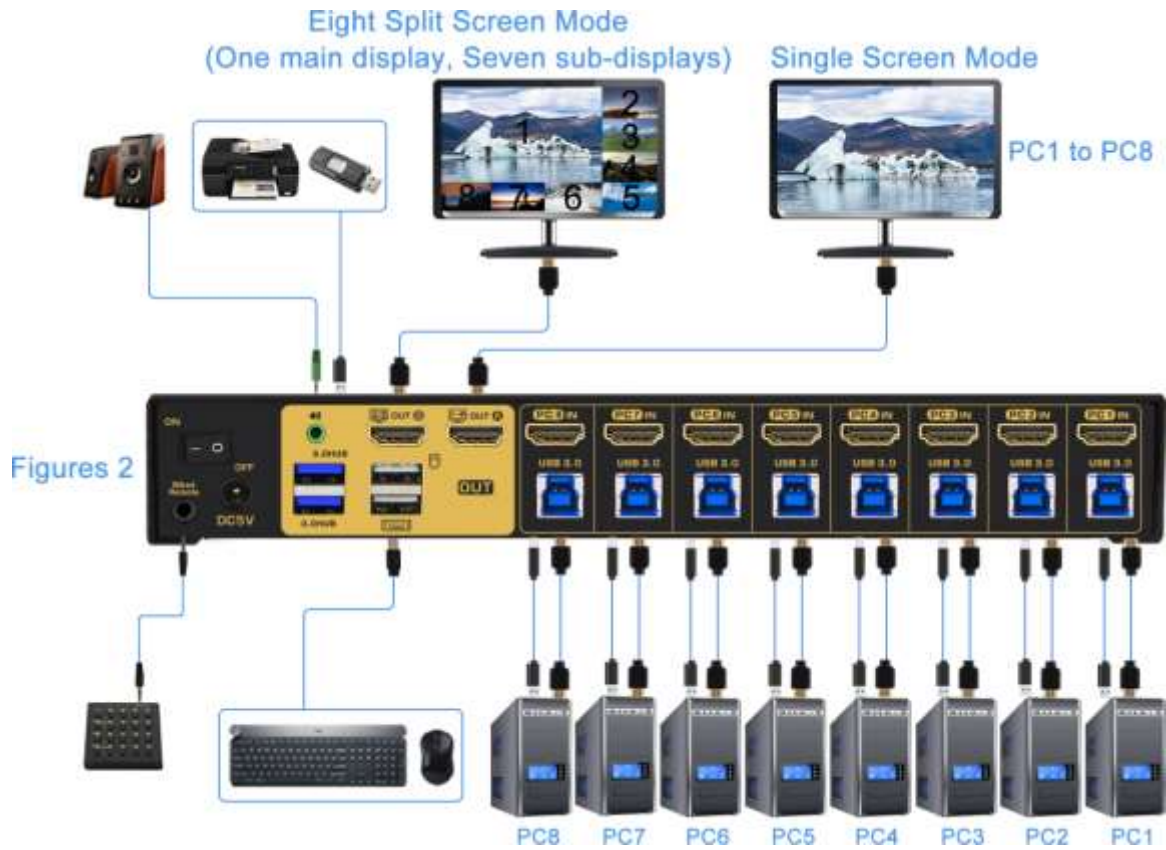**Application Scenario II:** Connecting 4 dual-graphics card computers
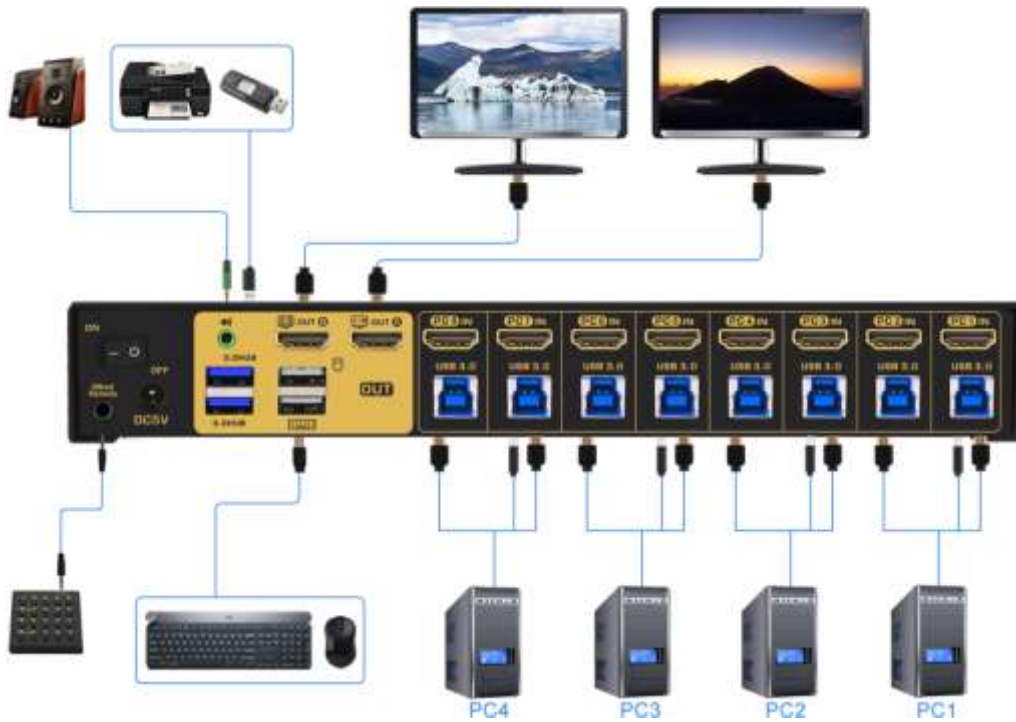
◆ Supports various application scenarios:

I: Split + Single-screen Mode (Eight computers inputs): OUT-A outputs a single screen, allowing you to freely switch between signals from PC1 to PC8. OUT-B outputs a split screen and can display images from all four computers simultaneously (Figures 1 and 2), or from just four computers simultaneously (e.g., PC1-PC4 or PC5-PC8, as shown in Figures 3 and 4). Additionally, it supports a single-screen output for each individual computer from PC1 to PC8 (refer to Figure 5 and 6).

(1) Eight Split Screen Mode + Single Screen Mode：
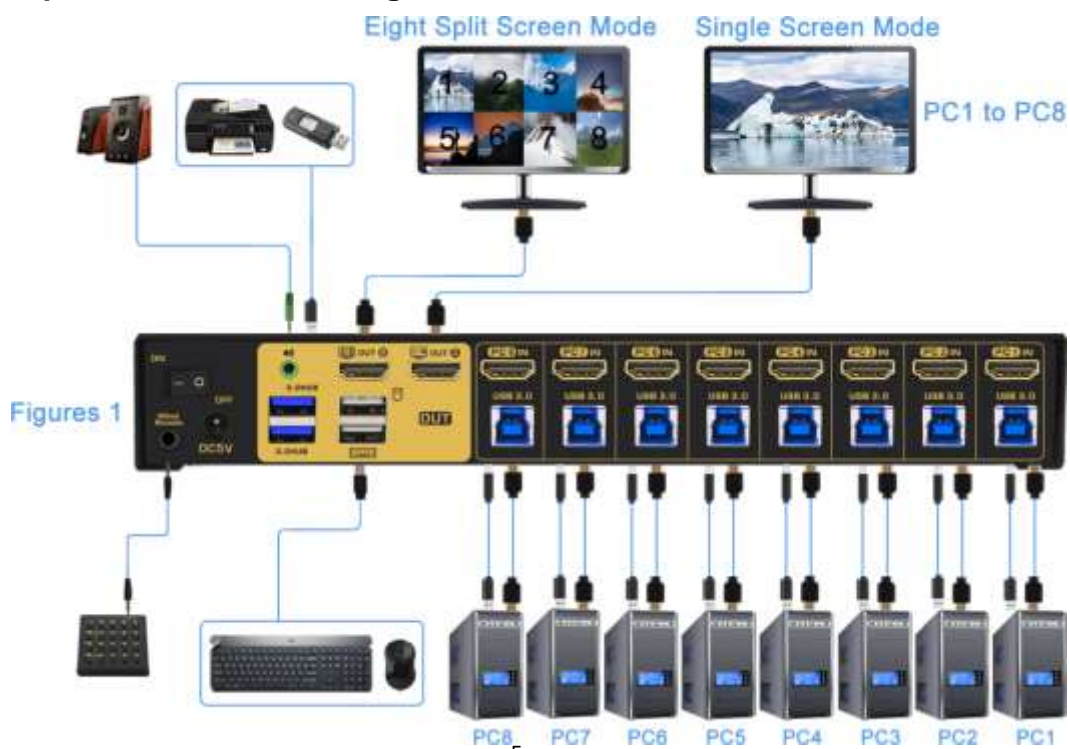
（2）Eight Split Screen Mode(One main display, Seven sub-displays) + Single Screen Mode：

Eight Split Screen Mode
(One main display, Seven sub-displays)   Single Screen Mode

Figures 2

PC1 to PC8

PC8 PC7 PC6 PC5 PC4 PC3 PC2 PC1

（3）Four Split Screen Mode + Single Screen Mode：

Four Split Screen Mode   Single Screen Mode

PC1 to PC8

Figures 3

PC8 PC7 PC6 PC5 PC4 PC3 PC2 PC1

6
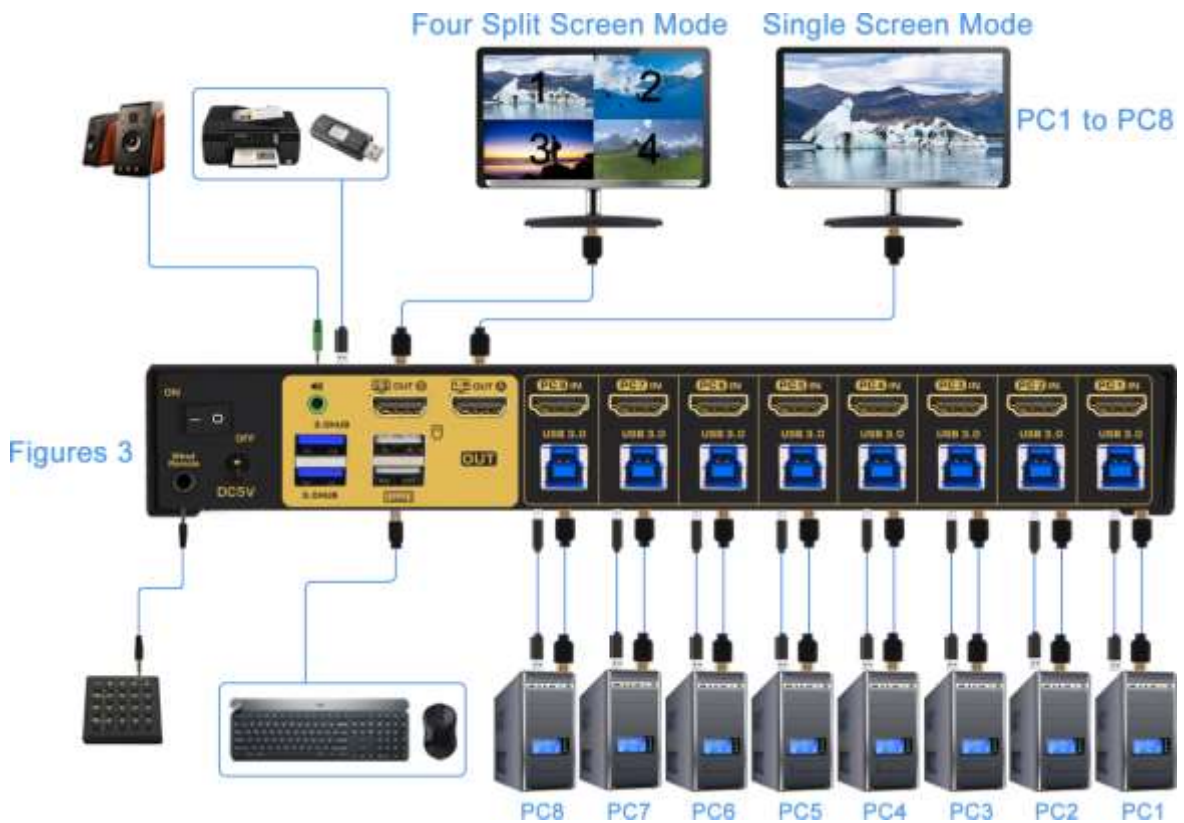
(4) Picture-in-picture Mode+ Single Screen Mode：

Four Split Screen Mode
(One main display, Three sub-displays)   Single Screen Mode

PC1 to PC8

Figures 4

PC8 PC7 PC6 PC5 PC4 PC3 PC2 PC1

(5) Single Screen Mode+ Single Screen Mode：

PC1 to PC8
Single Screen Mode   Single Screen Mode

Figures 5

PC8 PC7 PC6 PC5 PC4 PC3 PC2 PC1
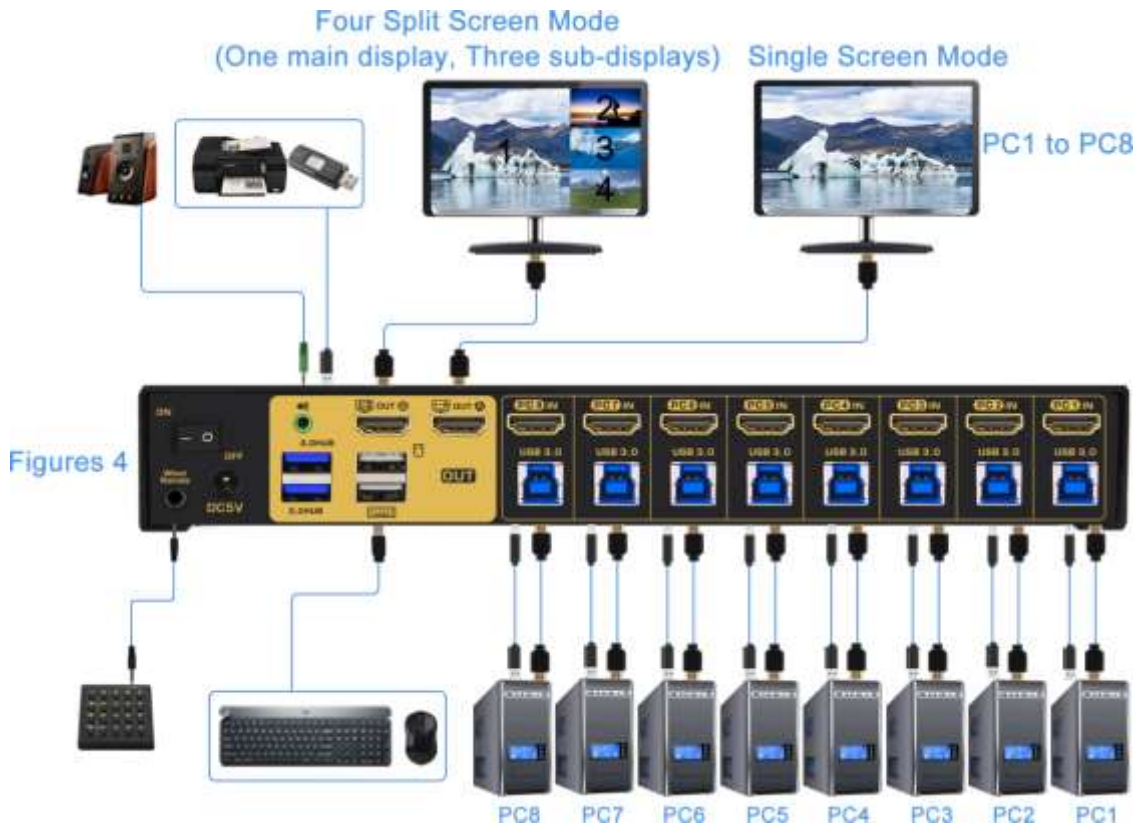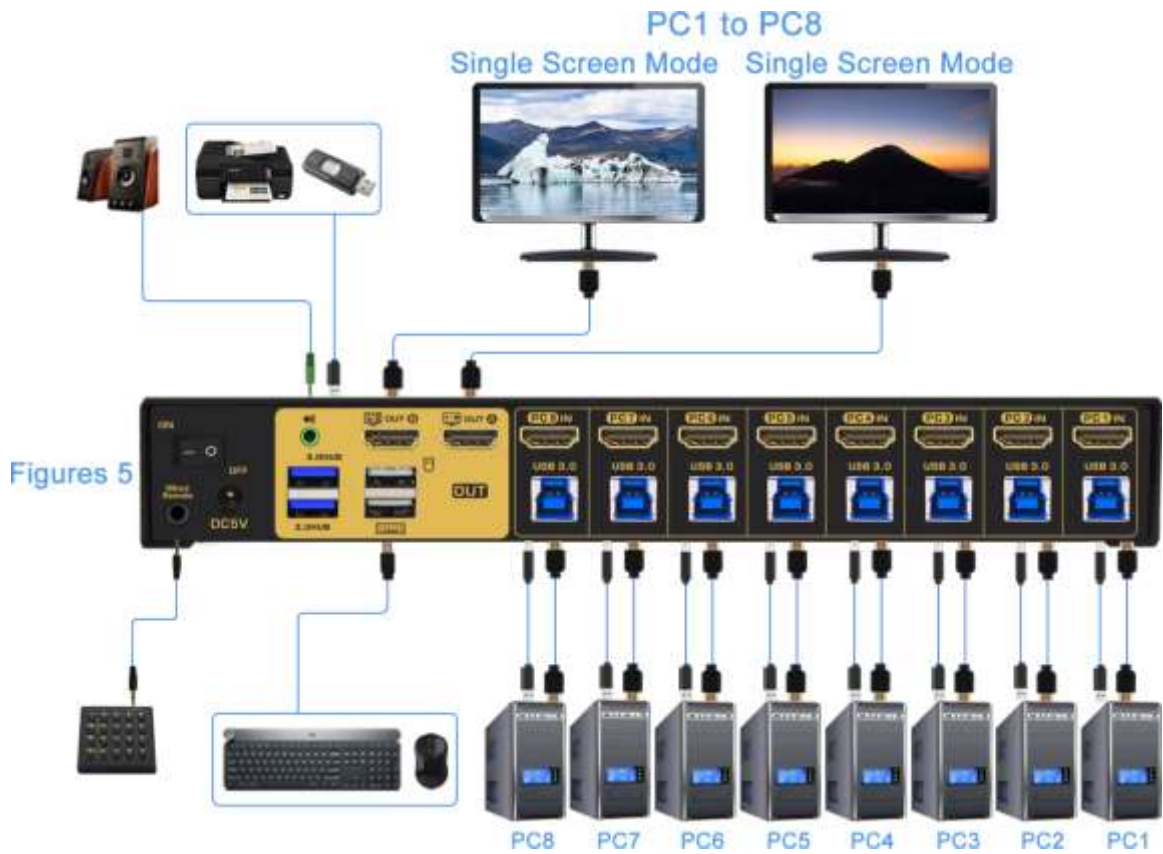
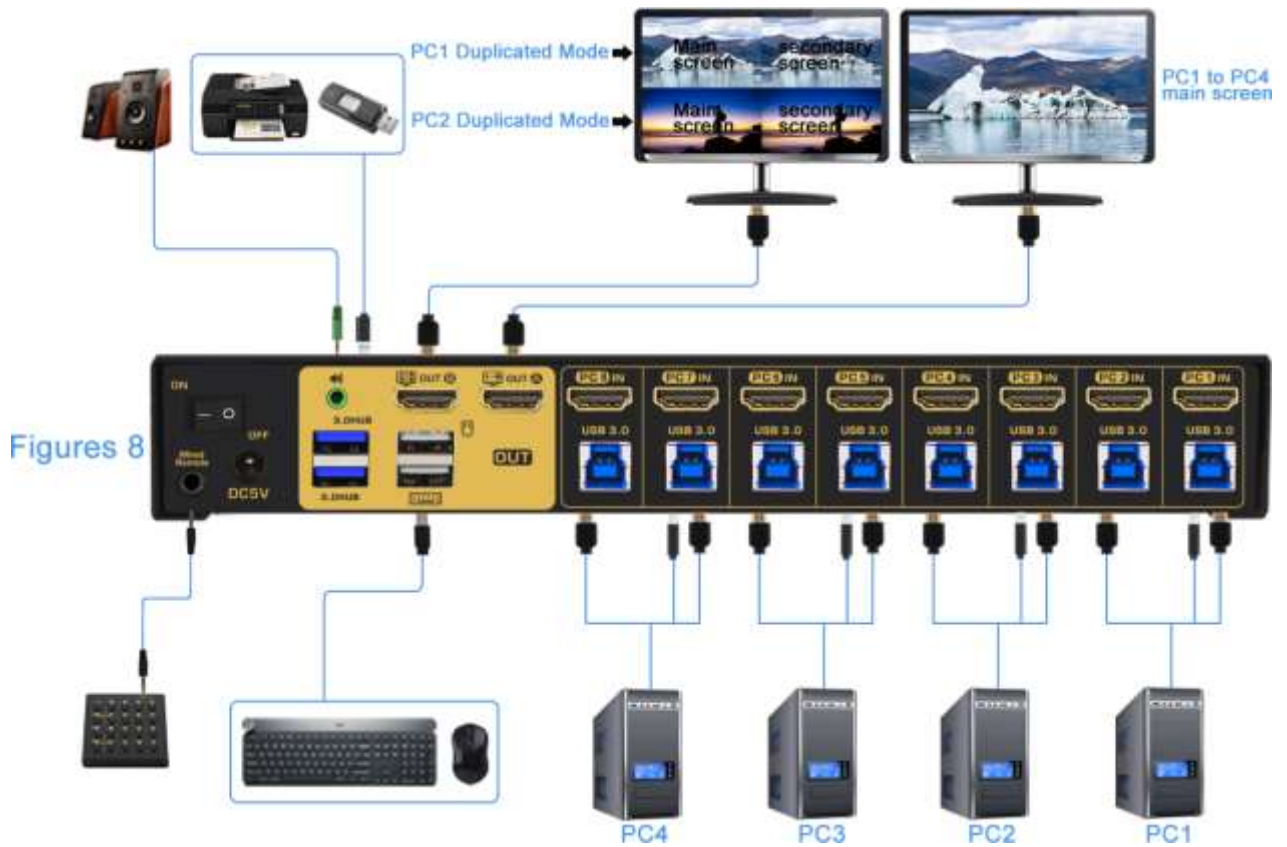(6) **Single Screen Mode+ Single Screen Mode(Duplicated mode)**：
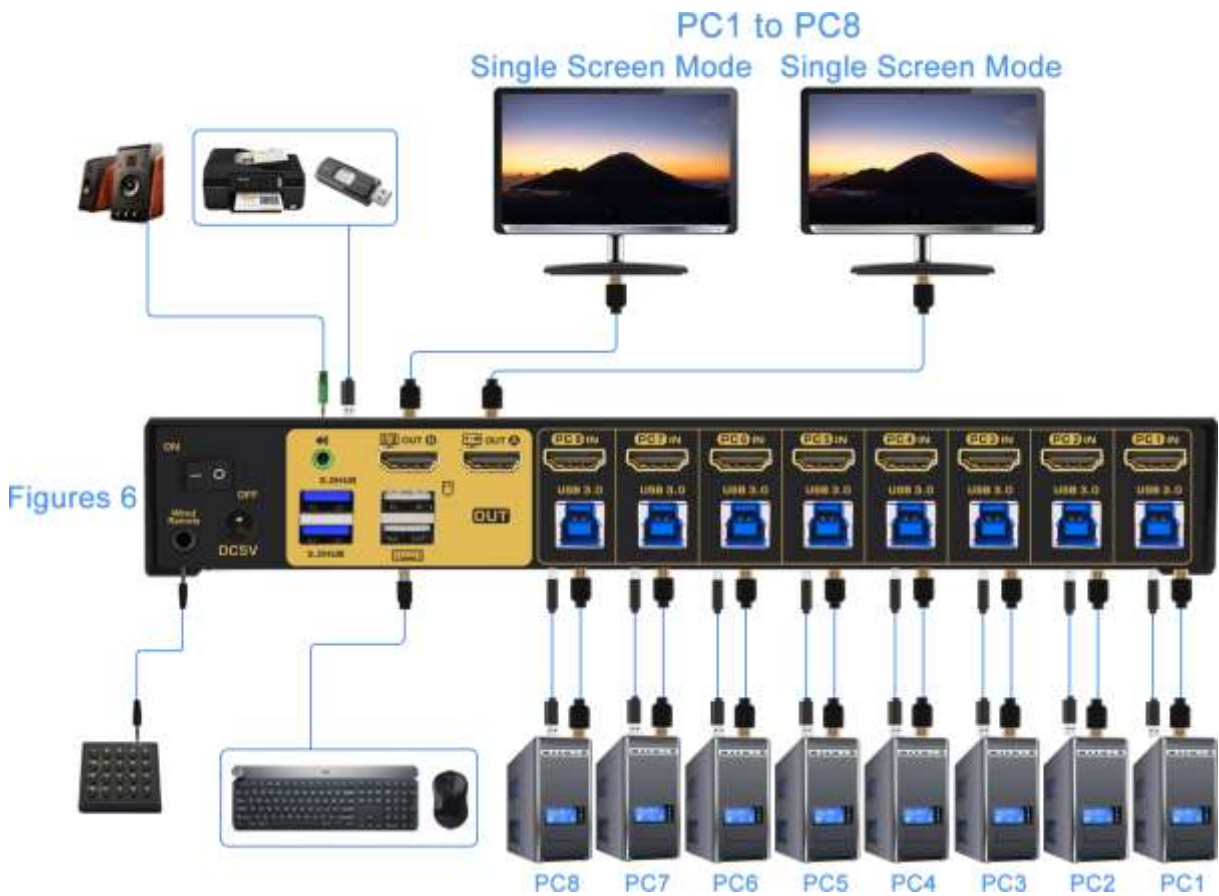
II: Extened, Duplicated, and Splicing Modes (Four dual-graphics card computer inputs)：

For four dual-graphics card computers: Connect the first host's USB to the USB 1 IN port and its HDMI cables to HDMI PC1 IN and PC2 IN. Connect the second host's USB to the USB 3 IN port and its HDMI cables to HDMI PC3 IN and PC4 IN. Connect the third host's USB to the USB 5 IN port and its HDMI cables to HDMI PC5 IN and PC6 IN. Connect the fourth host's USB to the USB 7 IN port and its HDMI cables to HDMI PC7 IN and PC8 IN.This configuration supports six modes of operation: dual-channel extension, duplication, splicing, and others (refer to Figures 6 to 11). Since USB signals are only input through ports 1,3,5,7 functionalities like mouse, keyboard, USB hub, and audio signals switch correspondingly between ports 1,3,5,7 for these six modes. Ports 2,4,6,8 are invalid.

(1) Extended Mode+Single Screen Mode：

Figures 7

PC1 Extended Mode
PC2 Extended Mode
Main screen
secondary screen
Main screen
secondary screen
PC1 to PC4 main screen

PC4　PC3　PC2　PC1

(2) Duplicated Mode + Single Screen Mode：

Figures 8

PC1 Duplicated Mode
PC2 Duplicated Mode
Main screen
secondary screen
Main screen
secondary screen
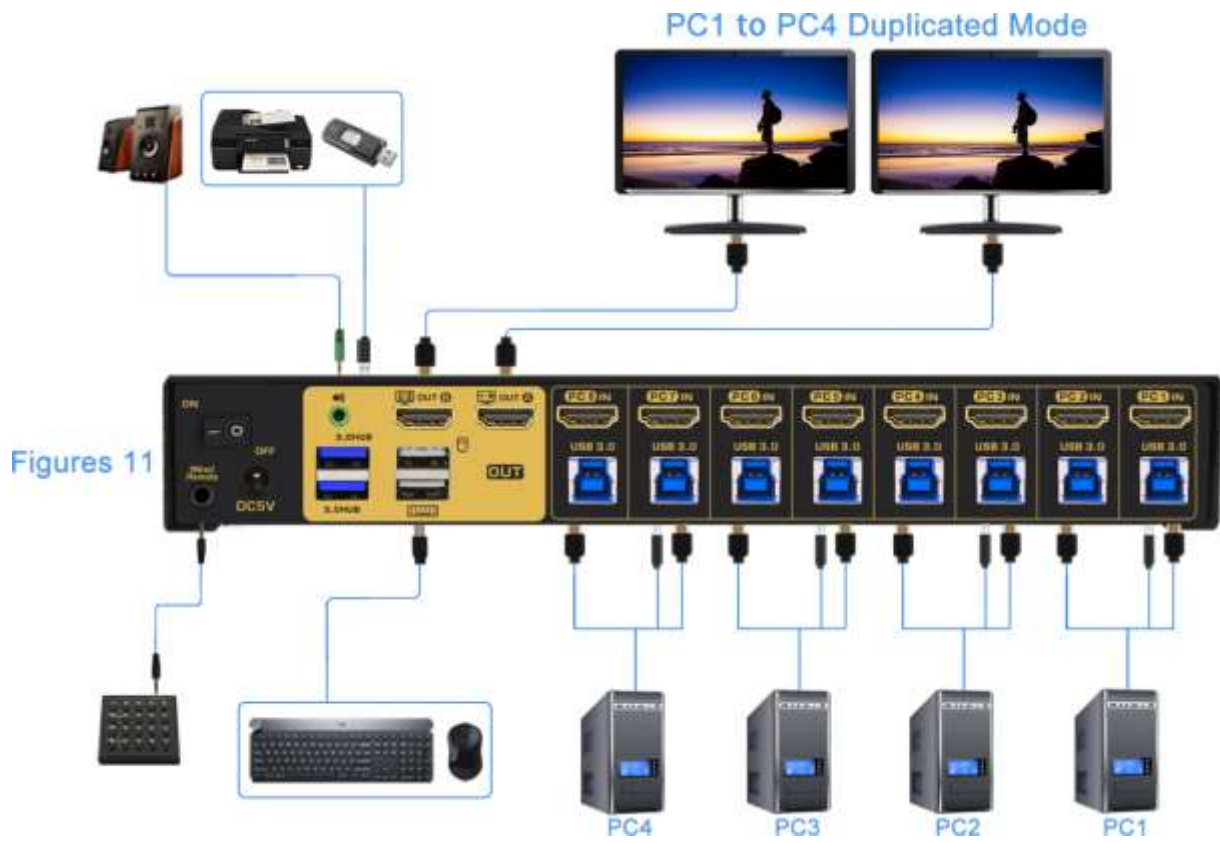PC1 to PC4 main screen

PC4　PC3　PC2　PC1

(3) Splicing Mode + Single Screen Mode：

(4) PC1 to PC4 Extended Mode：

（5）PC1 to PC4 Duplicated Mode：

PC1 to PC4 Duplicated Mode

Figures 11

PC4　PC3　PC2　PC1

（6）PC1 to PC4 Splicing Mode：

PC1 to PC4 Splicing Mode

Figures 12

PC4　PC3　PC2　PC1
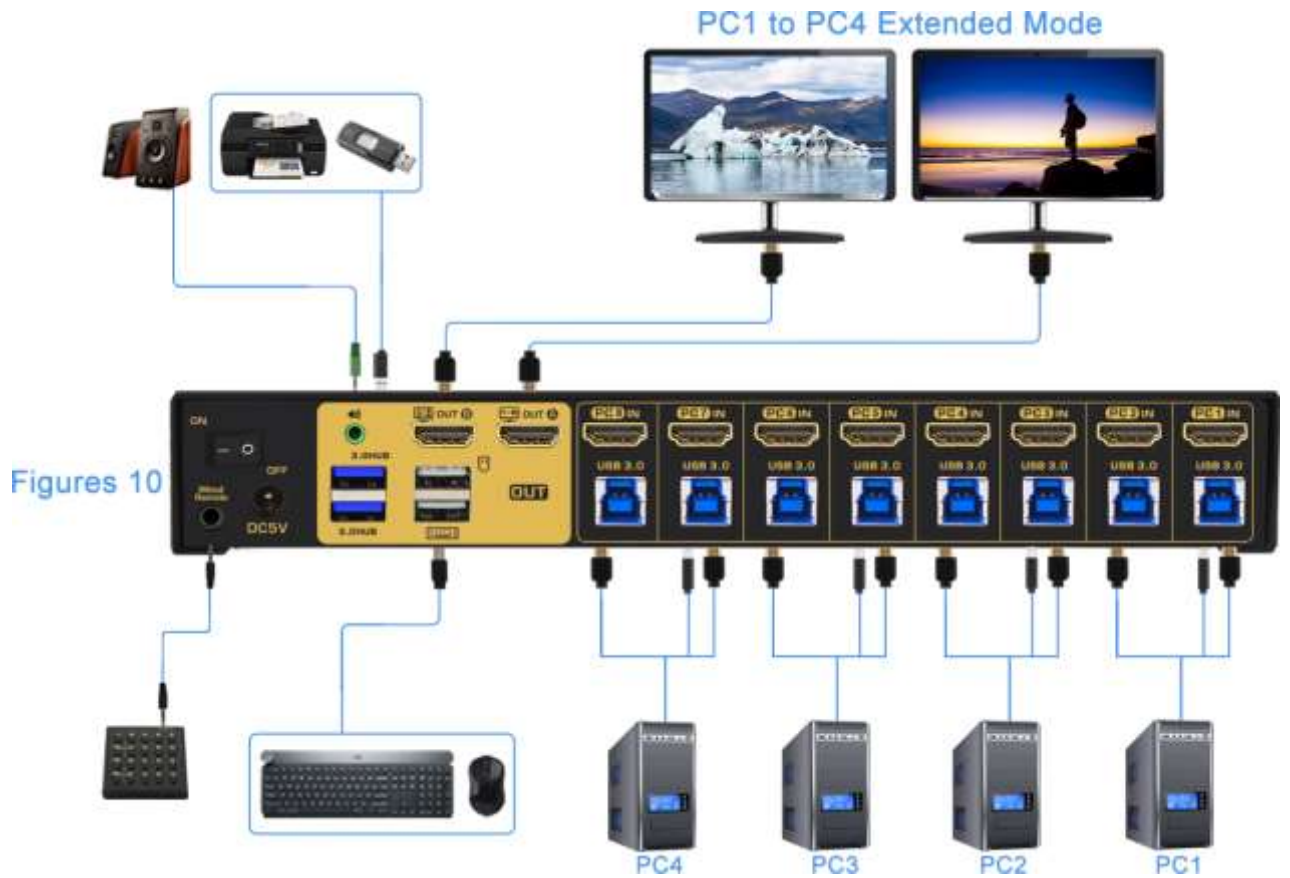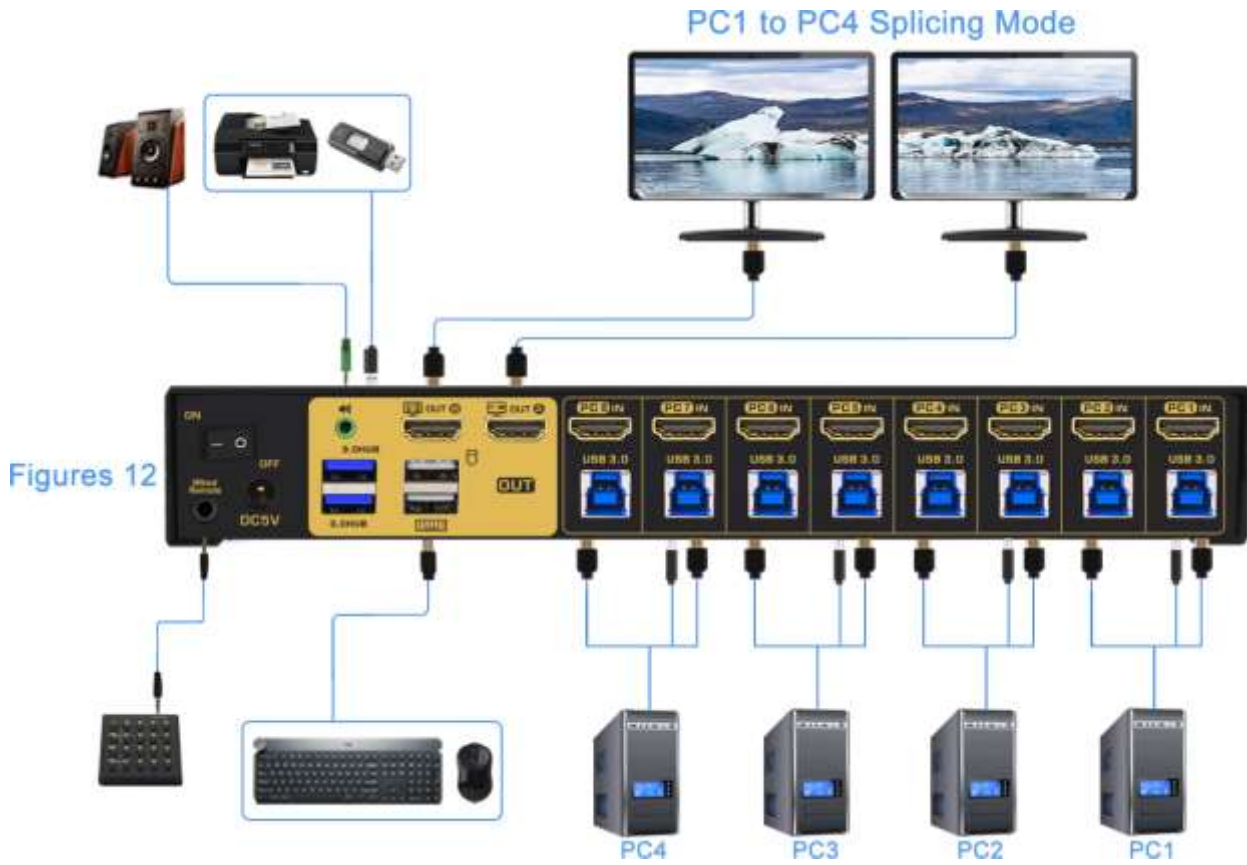
※ **Through-screen Operation Mode: the HOT KEY must be on (the decimal point in the display window A lights up).**
**Through-screen mode refers to the ability of the mouse cursor to move freely among PC1-PC8, allowing selection of any one of the PCs in an up-down, left-right, or diagonal movement."**

(1) Through-screen operation of eight-view: To enter the through-screen mode, double-click the left 【Shift】+G+【Enter】 on the keyboard or press ⟳[1-4/5-8] on the front panel and wired remote control keys. In the through-screen mode, the OUT-B default PC1 digital display shows 8, and the key indicator lights up. At this point, you can achieve through-screen movement in up, down, left, right, and diagonal directions among PC1-PC8. To perform through-screen action, hold down the middle mouse wheel button and move the cursor to the target screen in the direction indicated by the arrow in the image. Release the wheel button to complete a through-screen action. When through-screening to a specific port, the OUT-A digital display of that port shows the number indicating the port.

Note: At this moment, double-clicking the ALT key on the keyboard or pressing the cycle key ⟳[1-4/5-8] can switch to various modes, including one large and seven small modes. The mouse can navigate through adjacent ports, and you can use the cycle key to return to the original state by pressing it repeatedly.
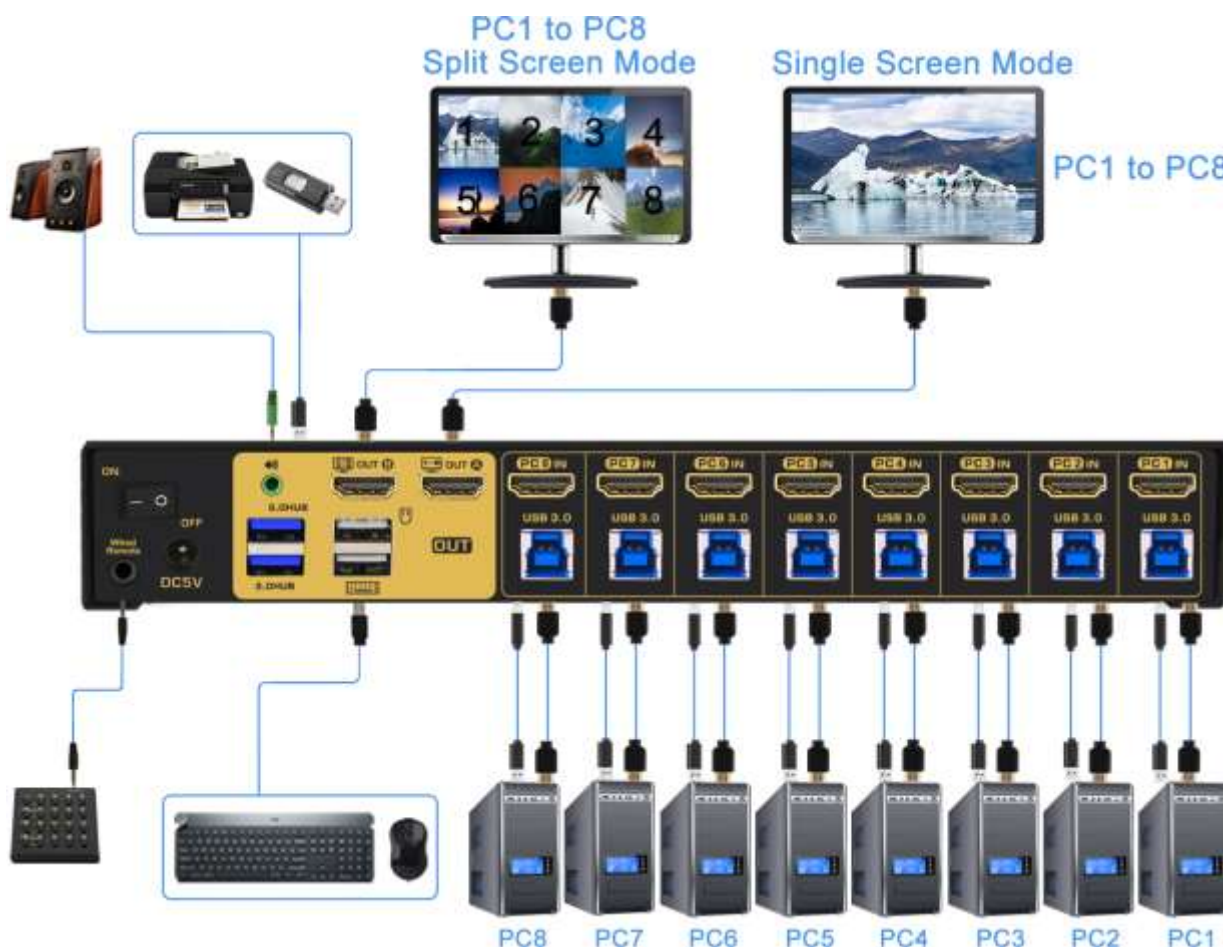
(2) **Through-screen operation of four-view:** To enter the through-screen mode, double-click the left 【Shift】+H+【Enter】on the keyboard or press ⟲[1|2][3|4] on the front panel and wired remote control keys. In the through-screen mode, the OUT-B default PC1 digital display shows 4, and the key indicator lights up. At this point, you can achieve through-screen movement in up, down, left, right, and diagonal directions among PC1-PC4. To perform through-screen action, hold down the middle mouse wheel button and move the cursor to the target screen in the direction indicated by the arrow in the image. Release the wheel button to complete a through-screen action. When through-screening to a specific port, the OUT-A digital display of that port shows the number indicating the port.

If double-click the left 【Shift】+J+【Enter】on the keyboard or press ⟲[5|6][7|8] on the front panel and wired remote control keys. In the through-screen mode, the OUT-B default PC1 digital display shows 4, and the key indicator lights up. At this point, you can achieve through-screen movement in up, down, left, right, and diagonal directions among PC5-PC8. To perform through-screen action, hold down the middle mouse wheel button and move the cursor to the target screen in the direction indicated by the arrow in the image. Release the wheel button to complete a through-screen action. When through-screening to a specific port, the OUT-A digital display of that port shows the number indicating the port.
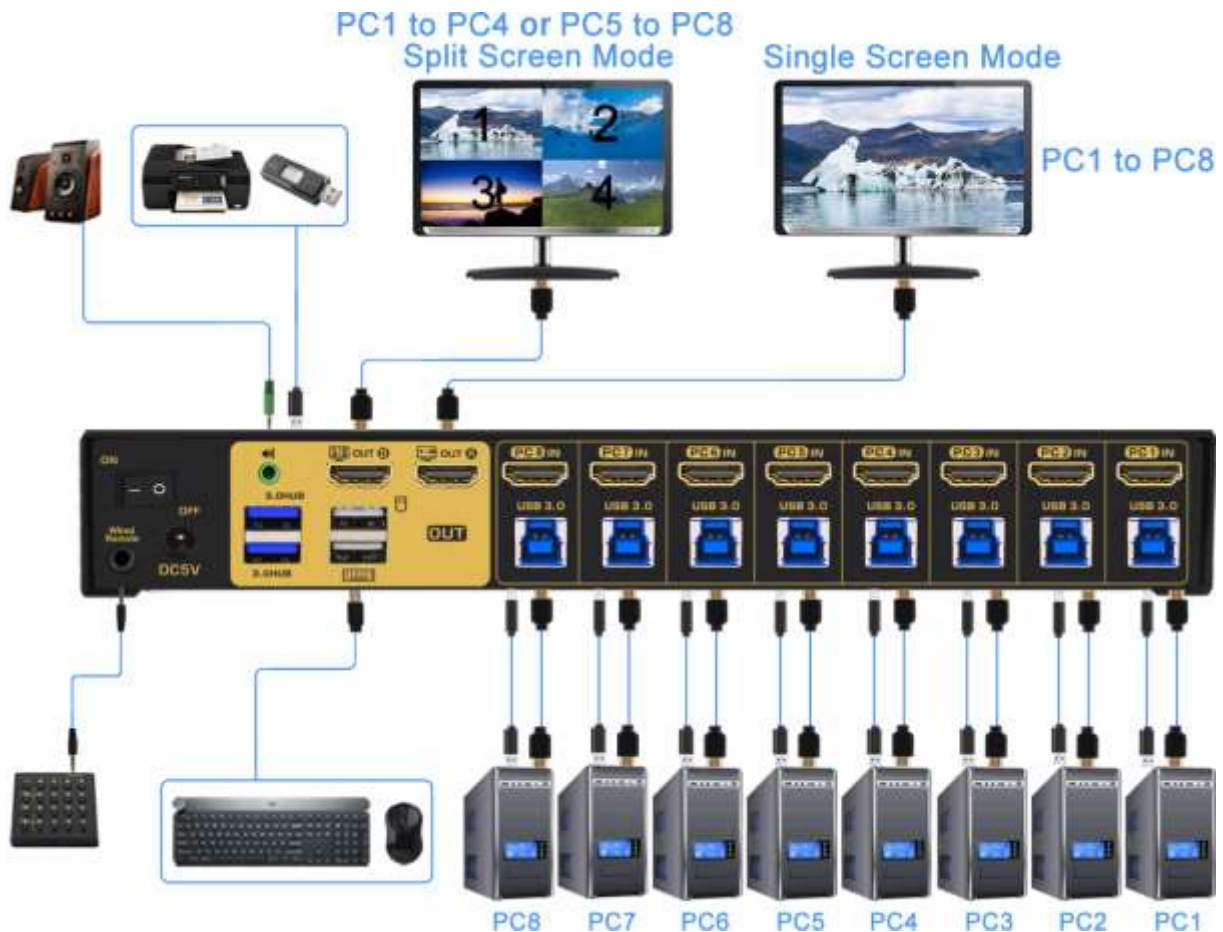
Note: At this point, double-clicking the ALT key on the keyboard or pressing the cycle key ⟲[1|2][3|4] or ⟲[5|6][7|8] can switch to various modes, including one large and three small modes. The mouse can move through adjacent ports, and you can use the cycle key to return to the original state by pressing it repeatedly.

※ Switching Operation Mode:

I. Push button Switch
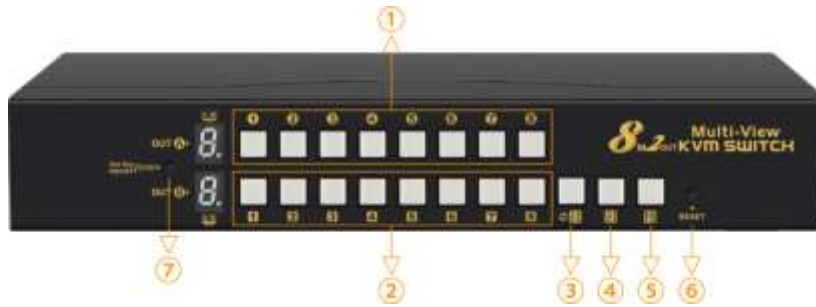
① OUT-A①②③④⑤⑥⑦⑧ Button: Monitor A single-screen mode (always maintaining a single-screen state), select PC1-PC8 signal inputs (including the monitor, USB mouse and keyboard, USB 3.0 HUB, and audio synchronization switch).

② OUT-B ①②③④⑤⑥⑦⑧ Button：Monitor B single-screen mode.

③ OUT-B Button：：8 Split Screen Mode, the mouse can directly enter the screen crossing mode. Pressing this key again represents another display mode and can be cycled to return to the original state.

④ OUT-B Button：4 Split Screen Mode(Display for PC1 to PC4), the mouse can directly enter the through-screen mode. Pressing this key again represents another display mode and can be cycled to return to the original state.

⑤ OUT-B Button：4 Split Screen Mode(Display for PC5 and PC8), the mouse can directly enter the through-screen mode. Pressing this key again represents another display mode and can be cycled to return to the original state.

⑥ Reset Button: Reset the KVM switch.

⑦ EDID button: This button has three functions:

    1. Hotkey ON/OFF switch: Press once to turn off, press again to turn on.

    2. EDID button switch: Long press for more than 3 seconds, used to switch between 1080P and 4K 30HZ (OUT-B's digital display with decimal point lit indicates 4K 30HZ, and the light off indicates 1080P).

    3. Buzzer sound ON/OFF switch: Press twice continuously within 1 second to turn off or turn on.

II. Keyboard Hot Key Switch

HOT KEY switch is on(The decimal point light is on in the OUT A window.)

Double-click the keyboard right [Ctrl] + [Enter] to Enter the switching mode, and then switch with the keyboard hot key. Double-click the keyboard right [Ctrl] + Port Number + [Enter] to quickly switch to the target port.

Hot key setting: The default hot key is the right [Ctrl]. In case the right [Ctrl] key conflicts with other function keys, the hot key can be set as the [Num lock], [Scroll Lock] or the left [Ctrl] key. The operation details are shown in the following table.

Double click the right【Ctrl】→ 【Num lock】→【Enter】	Hotkey change to【Num lock】
Double click the right【Ctrl】→ left【Ctrl】→【Enter】	Hotkey change to the left【Ctrl】
Double click the right【Ctrl】→ 【Scroll Lock】→【Enter】	Hotkey change to 【Scroll Lock】
If the hotkey is changed to 【Scroll Lock】，You want to change it to the left 【Ctrl】，Then double click 【Scroll Lock】→the left【Ctrl】→【Enter】	

Notes: a. When operating the hot key, double click must be done in one or less than one second. In excess of one second, the operation is invalid.

b. In case you have forgotten the changed hot key, you can reset it as right [Ctrl] by doubling clicking [Ctrl]+[Tab]+[Enter]. After the operation is completed, a "beep" will be given.

◆ **Description of keyboard hot key combination: (Take the default hotkey right [Ctrl] as an example, after each operation, a "beep" sound indicates the operation is successful)**

Function Description	Hot Key Combination
Entry of eight-view through-screen mode	Double click the left[shift] →G→ [Enter]
Entry of four-view through-screen mode(PC1-PC4)	Double click [Caps Lock] →H→ [Enter]
Entry of four-view through-screen mode(PC5-PC8)	Double click [Caps Lock] →J→ [Enter]
Toggle through-screen mode in a loop	Double click the right[Alt]
Entry of switching mode	Double click the right[Ctrl] → [Enter]
Switch directly to Screen out -A, along with mouse, keyboard, audio, and other signals.	Double click the right[Ctrl] → Port Number → [Enter]
Switch Screen out -B	Double click the right[Ctrl] →B → Port Number → [Enter]
Turn on/off the automatic scanning function: It is valid in the switching state, and the device will automatically switch in turn according to the set time. (Valid in the single-view switching state)	Double click the right[Ctrl] → S → [Enter]
Set the time interval for automatic scanning, which can range from 8 to 999 seconds (The system default is 8 seconds.). (valid in the single-view switching state)	Double click the right[Ctrl] → S → Number→ [Enter]
Enable/ disable the detection function (disable in default).	Double click the right 【Ctrl】→T→【Enter】

Entry /out of eight-view synchronization state	Double click the right [Shift] → [Enter]
Set the repeating function: Firstly Enter into the synchronization state Press the repeating key that has been set, and then the synchronizer will repeat corresponding keys at a speed of 30 times / second. Loose the repeating key to stop the repeating. After the synchronizer is powered off, the repeating key will retain its function.	1.Set the repeating key: Double click [Shift]→ [Caps lock] → [the repeating key to be set] → [Enter] 2.Cancel the repeating key: Double click [Shift]→[Caps lock]→ [the repeating key to be canceled] → [Enter] Note: You can set at most six different repeating keys by repeating step "1".
The reset system helps to solve the problem of keyboard failure. (Note: The original hot key and state will not be changed.)	Double click the right 【Ctrl】→R→【Enter】
Turn off / on the buzzer:	Double click the right 【Ctrl】→B→【Enter】
Restoration function: Restore the default setup, such as the scanning time, repeating key and so on. However, this operation will not restore the right [Ctrl] as the switch hot key.	Firstly Enter the switch state: Right [Ctrl] + right [Ctrl] + [Enter], then double click right [Ctrl] + triple click [Esc] + [Enter]. Two "beeps" will be given to prompt a successful operation.

◆ Turn on and off of Hot keys:

(Default is turn on,   The decimal point light is on in the OUT A window.)

① When the keyboard is in hotkey state, i.e. the decimal point light is on in the OUT A window, double-click the right [Ctrl]+[M]+[Enter], and the buzzer will give off a "beep" sound. At this time, the mouse switch function is turned off, and the mouse interface of the switch will be switched to USB HUB function.

② When the keyboard is in hotkey state, i.e. the decimal point light is on in the OUT A window , double-click the right [Ctrl]+[K]+[Enter], and the buzzer will give off a "beep" sound, and the Hot key on green light will be off. At this time, the hot key switch function of keyboard is turned off, and the mouse interface of the switch will be switched to USB HUB function.

③ Press the "Hot key on/off" key on the switcher when the mouse switch and keyboard hot key switch functions are turned off, and then the Hot Key green light will be on to resume the hotkey on state.

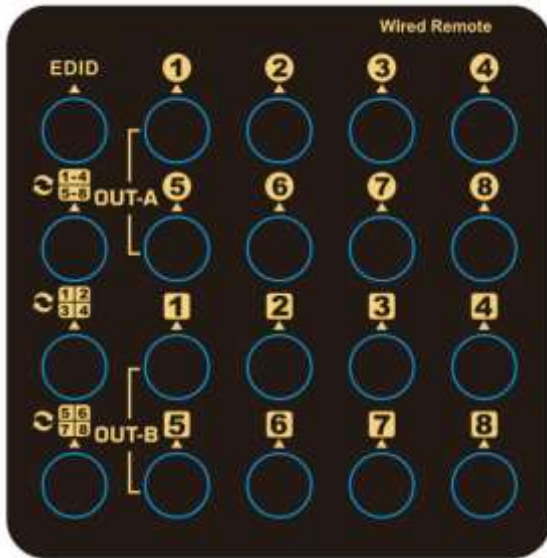**Notes: a. This function can be turned on or off according to customer requirements.**

b. In case that some game mouse and multi-function keyboard cannot be used, please turn off "Hot Key on/off". Change and select switch by "wired remote control" or "panel key".

c. When the Hot key on green light is on, the keyboard and mouse must be inserted on the ports marked with the corresponding characters of "▦"and "▯"before the keyboard hotkeys can be operated. If the wireless set of mouse and keyboard is used, the Bluetooth receiver must be plugged into the port marked with the corresponding character"▦", and the hot key function will be invalid if inserted incorrectly.

d. In the automatic scanning state, press the panel switch key or press any combination of hot keys, the automatic scanning will be automatically turned off.

e. When the Hot key is on, some DVR hard disk recorders or other devices with the USB of composite signals are not supported by this device, and they can be supported after the hot key is turned off.

◆ Wired remote control:

① OUT-A❶❷❸❹❺❻❼❽ Button: Monitor A single-screen mode (always maintaining a single-screen state), select PC1-PC8 signal inputs (including the monitor, USB mouse and keyboard, USB 3.0 HUB, and audio synchronization switch).

② OUT-B 🔢 Button：Monitor B single-screen mode.

③ OUT-B ↻🔢 Button：8 Split Screen Mode, the mouse can directly enter the screen crossing mode. Pressing this key again represents another display mode and can be cycled to return to the original state.

④ OUT-B 🔢 Button：4 Split Screen Mode(Display for PC1 to PC4), the mouse can directly enter the screen crossing mode. Pressing this key again represents another display mode and can be cycled to return to the original state.

⑤ OUT-B 🔢 Button：4 Split Screen Mode(Display for PC5 and PC8), the mouse can directly enter the screen crossing mode. Pressing this key again represents another display mode and can be cycled to return to the original state.

⑥ EDID Button：fixed input and output display resolution, only support 1080P@60Hz or 4K@30Hz.

⑦ Notes：To the Monitor B, In split mode, HDMI audio defaults to the first screen, which is PC1's audio.

※ Synchronization Operation Mode (Synchronous operation of many computers with the same configuration)

(1) **Setting of PC Synchronization Function in Windows**

When using the device for the first time, users should set it as shown below. The interface varies with system version. The following icons are provided only for your reference.

Double click right [Ctrl] +Port No.(1/2/3 …8)+ [Enter] to Enter the switch state. Set each PC as shown in the following three steps.

1.Set the resolution: Open Windows, and right click the blank of the desktop to pop up

 . Click"screen resolution"topop up the image of . Set all the computer monitors at the same resolution.

2.Set the mouse: Turn on the computer, and then click at the lower left corner to

pop up . Click"control panel" to pop up .

Click"check the device and printer" to pop up . After

the right click on the mouse, click the "mouse setting" to pop up . Click the "pointer options" to move the "select the pointer movement speed" marker to the middle position. After all the computers connected to this product have been set, Enter into the synchronization state and start the detection. Move the mouse that is connected to the synchronizer from the lower left corner to the upper right corner of the display. In case the moving trail or position of the mouse of a computer is different from that of other computers, repeat the steps of "set the mouse", to keep it identical with other computers.

③.Set the keyboard: Choose the keyboard icon just

 . Right click the mouse, and then click "keyboard setting" to pop up
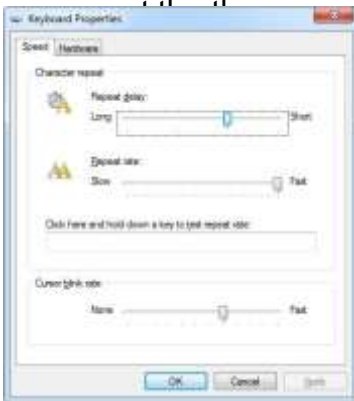
. Choose "speed" to set all the controlled computers at the same "repeat delay" and "repetition rate", and then Enter into the synchronization state and start the testing. Click the test frame to flicker the cursor, and then hold a key of the keyboard connected to the synchronizer for a moment and then loose it. Check whether the quantities of characters appearing on the computer are the same. In case of inconsistency, please repeat the steps of "set the keyboard" to adjust the "repetition rate", until the quantities of characters of all controlled computers are the same.

(2) After the step of (1) is set, the hot key must be in the on state. Double-click the keyboard [Shift]+[Enter] to move cursor of four views to the starting corner. After the cursors are aligned, four computers with the same configuration can be operated simultaneously.

◆ **Box Contents：**

1. KVM Switch x 1
2. Corresponding HDMI 2.0 &USB 3.0 cables
3. Remoter with wire x 1
4. Power adapter x 1
5. User manual in English x 1

◆ FAQ & Trouble Shooting:

Q1: The keyboard or mouse is not functioning:

1. If the keyboard and mouse stop functioning after some time, power cycle the KVM switch to allow it to re-identify the USB devices.
2. Ensure that the USB 3.0 cable from each computer is properly connected to the corresponding USB B port on the switch. Some keyboards and mice with special features might not work correctly with the hotkeys on the USB keyboard and mouse ports. If you encounter this issue, either use the USB 3.0 HUB port(s) or disable the hotkeys. Without the hotkeys, users can rely on the wired remote, IR remote, or front buttons to switch between computers and display modes.

Q2: Monitors aren't displaying anything, or the displayed images are incorrect:

1. Verify that all cables are securely connected. You can also try swapping them out to determine if the issue lies with the cables themselves.
2. Restart the computer to ensure that the KVM and computer monitor can re-establish their connection.
3. Press the EDID button on the wired remote. **Note**: it only supports 1080P@60Hz or 4K@30Hz.