

**User Manual**  
**USB3.0 Matrix KVM Switch**

Thanks for buying our USB3.0 Matrix KVM switch! This product supports 4Kx2K@ 60Hz ultra-high definition resolution, and the display has dual channel and matrix mode for your selection. It supports a set of USB keyboard, mouse and 2 monitors to operate computers with graphics cards that allows dual video outputs. The mouse, keyboard and screen display can be used alternately between the two monitors, and the two computers can be operated respectively. It is suitable for high-resolution games, multimedia design, multimedia post production and video editing, and provides great convenience for users.

## **I. Product Features:**

- ✓ Controls 2 computers or laptops using one set of keyboard, mouse and 2 monitors;
- ✓ Supports dual extended or mirrored monitor display for each selected computer **or Matrix display on 2 computers** (1 computer on 1 monitor);
- ✓ Supports HDMI2.0 or DP1.2 with auto EDID for resolution up to 4096x2160@ 60Hz 4:4:4, depending on graphic cards, signal conversion and monitors;
- ✓ With 2 extra USB3.0 HUB for data transferring rate up to 5Gbps/s (10 times faster than USB 2.0);
- ✓ Supports 6 Switch Modes:
  1. Push button;
  2. Keyboard hotkeys
  3. Mouse clicks
  4. Wired remote
  5. IR remote
  6. Auto scan (default as inactive)
- ✓ Cross supports major operation systems including Windows 10/7/2000/XP/Vista、Linux and Mac;
- ✓ Support Hot plug & play;
- ✓ Support auto detection, if one computer is powered off, the switch will automatically switch to the next powered-on computer (The default is in closed state,if you want to open it, please read the below setting operation instructions).
- ✓ With memory function in case of power-down
- ✓ Support stereo 3.5 audio through HDMI digital audio.

## **II. Data sheet**

ITEM		MODEL	Dual HDMI KVM	Dual Displayport KVM	HDMI+Displayport KVM
KVM output (Consel)	Keyboard		1xUSB Type A F		
	Monitor		2x HDMI 2.0 F		
	Mouse		1xUSB Type A F		
	Stereo 3.5		1		
	USB 3.0 A F		2		
	IR		1		
	Mini USB(10pin)		1		
Computer (Input)	HDMI 2.0 F		4	/	2
	Displayport F		/	4	2
	USB 3.0 B F		2		
DC Socket			5.5x2.5mm		
Push button			2		
LED light			3		
Resolution			4096x2160@60Hz		
Scan interval			8 ~ 999 Seconds		
Power Consumption			DC5V, 2.5W	DC5V, 3.8W	DC5V, 3.2W
Environment	Operating Temperature		0-50°C		
	Storage Temperature		-20-60°C		
	Humidity		0-80%RH, Non-condensing		
Physical Properties	Housing		metal		
	weight		0.5KG	0.5KG	0.5KG
	Dimensions(LxWxH)		145x75x25mm		

### III. Applicable Models



Dual HDMI Matrix KVM 922HUA-M



Dual Displayport Matrix KVM 622DP-M



HDMI+Displayport Matrix KVM 622DH-M

#### IV. How to install

1. Power off all devices before installation;
2. Connect your computers to the Switch using USB 3.0 and HDMI or Display cables included (depending on different models).
3. Plug your mouse and keyboard to correspondent USB mouse and keyboard port on back panel,
4. Connect your Monitors to HDMI Out A & Out B on the switch;
5. Plug in your speaker or USB device if needed;
6. Power on the KVM switch and then boot all devices;

#### Special Notes (Please Read):

1. To get dual monitor displays, each computer / laptop needs to have dual HDMI outputs for 922HUA-M, or Dual DisplayPort outputs for 622DP-M, or 1 HDMI+ 1 DisplayPort for 622DH-M. Otherwise, reliable adapters will be needed.
2. All models have 2 HDMI Output ports, so HDMI monitors are strongly recommended.

## ◆ Connection Diagram:



### V. Turn on/off mouse and keyboard hotkey switch

(Default is turn on, 'Hotkey on' lights in green)

1. When hotkey is on ('Hotkey on' lights in green), double click right **【Ctrl】** → **【M】** → **【Enter】**, after hearing 'beep' sound, mouse switch function was turned off, mouse port of KVM changed to USB 2.0 HUB function. The "Hotkey On" light stays green.
2. When hotkey is on, click right **【Ctrl】** → **【K】** → **【Enter】**, after hear 'beep' sound, the "Hotkey On" light will turn off, and the keyboard hotkey will turn off, keyboard port of KVM changed to USB 2.0 HUB function.
3. When mouse and keyboard hotkey are turned off, and you need use hotkey

switch, you could press 'Hot key on/off' button, then hotkeys will be restored ('Hot key on' light is turn on).

Notes:

1. customers can turn on/off this function according to needs;
2. If some Keyboards and mouse with special features don't work on the USB keyboard and mouse ports which are dedicated for hotkeys, Please turn off 'Hot key on/off' button, or use the USB 3.0 ports, then the issue should be solved.



## VI. Dual Display mode settings

Take Win10 as an example: hold down the keyboard windows key→P, as



shown in the figure , a dialog will pop up as below.



Select Duplicate or Extend, then the two monitors can be displayed at the same time per selected display mode.

## VII. Monitor Display Mode


**This KVM Switch Supports Dual Monitor Mode and Matrix Monitor Mode.**

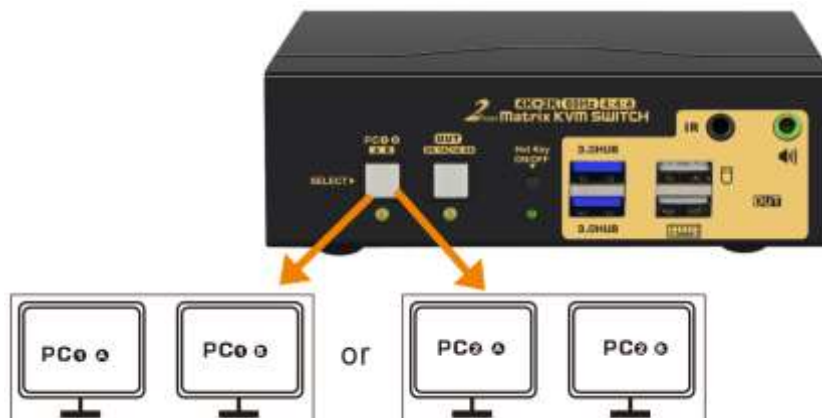
1. Dual Monitor Mode means the 2 monitors are extended or duplicated on one selected computer, and switch between 2 computers. Use the left white button on front of the switch. the LED under the right white button will be off.

2. Matrix Monitor Mode means the 2 Monitors are on 2 different computers, one for each computer, and switch between 2 monitors. Use the right white button on front of the switch, the LED under the right white button will be on.

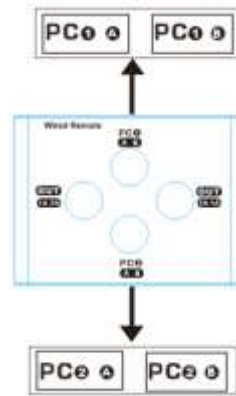
## VIII. Switch Modes under Different Display Mode :

### 1. Dual Monitor Mode

- **Button Switch:** Press the left white button  on the front panel to switch between PC1 or PC2.



- **Wired Remote Switch:** Select PC1 or PC2 by remote button after you plug it to the KVM as follows:



● **Click mouse Switch :**

Double click the mouse middle roller for circular switching (within 1 second)



● **Keyboard Hot-key Switch :**

Double click the right **【Ctrl】** then 1 or 2 then **【Enter】**

Hot-key operation

Display mode

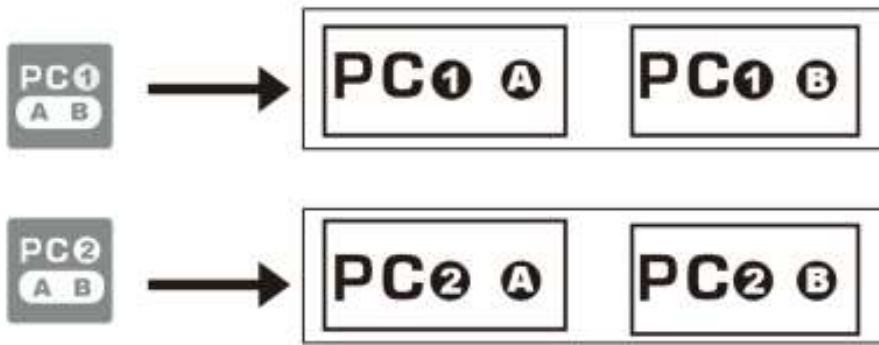
Double click the right **【Ctrl】** → 1 → **【Enter】** ⇒

Double click the right **【Ctrl】** → 2 → **【Enter】** ⇒

● **IR Remote switch**





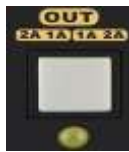


**Note:**

- Please plug the IR receiver unit (included) into the IR port of the KVM.
- For shipment safety, there is no battery inside the remote. The battery specification is CR2025 3V.

**2. Matrix Monitor Mode**

- **Button Switch:**



Use the right white button

1. **First push:** switch to Matrix Monitor Mode (PC1A and PC2A), the LED under the right white button will be on;
2. **Second push:** to swap monitors and USB between 2 computers (PC2A and PC1A);
3. **Third push:** to exit the Matrix Monitor Mode (back to Dual Monitor Mode), the LED under the right white button will be off.


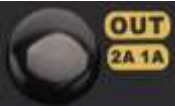
- **Wired Remote Push Button Switch:**



Press the button on the box to switch to the corresponding port screen or exit the cross screen.

**Note:**

- 1A means Display A of PC 1, 2A means display A of PC 2.

- To exit the matrix monitor mode, press the key  or  repeatedly in the current state then return to dual monitor mode.



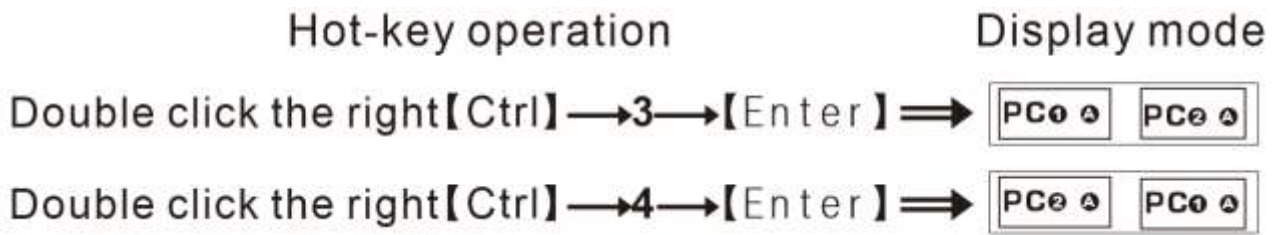
- **Click mouse Switch :**

Double click the mouse middle roller to switch the USB between 2 computers (within 1 second) ,



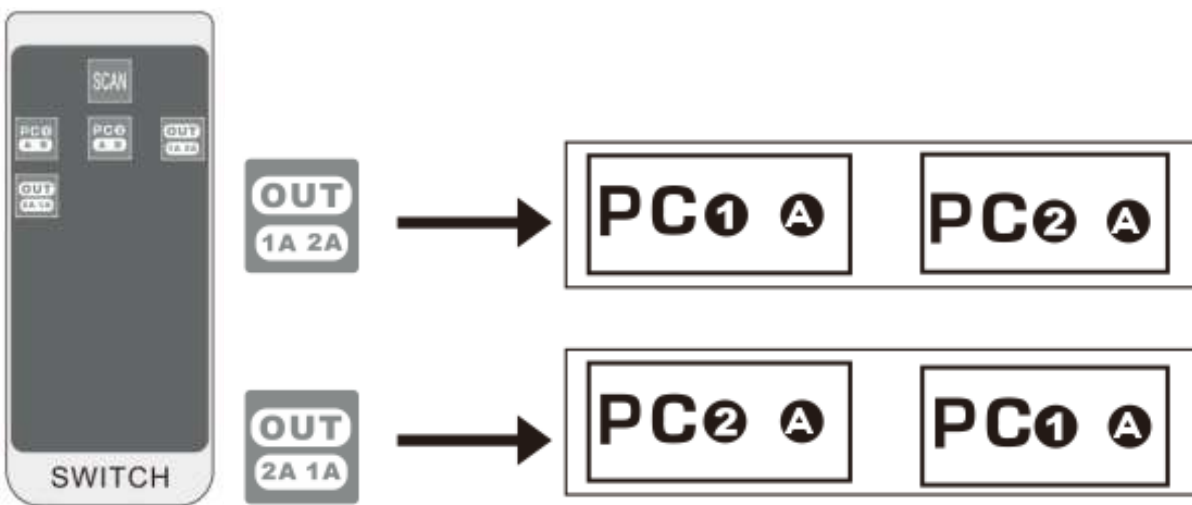
- **Keyboard Hot-key Switch :**

a) Double click the right **【Ctrl】** +3 or 4+ **【Enter】** to switch between monitors (from PC 1A 2A to PC 2A to 1A)





b) Twice click the “Alt” to switch the USB between 2 computers.

• IR Remote switch



Note:

- ① To exit the matrix monitor mode, press the key  or  repeatedly in the current state then return to dual monitor mode.
- ② please plug the IR receiver unit into the IR port of the KVM.
- ③ No battery inside the remote. The battery specification is CR2025 3V.

◆ Hotkey Setting:

Default hot-key is the right【Ctrl】(the Ctrl key on right side of the shared keyboard. If using the right【Ctrl】conflicts with other hot-key, it can be set to 【Num lock】 key, or 【Scroll Lock】 or Left 【Ctrl】 .

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



For example: Double click the right **【Ctrl】→【Num lock】→【Enter】** , The hot-key changes to **【Num lock】**; double click the right **【Ctrl】→【Scroll Lock】→【Enter】** , The hot-key changes to **【Scroll Lock】** key. If the hot-key set as **【Scroll Lock】** , If you want to set the hot-key to the left **【Ctrl】** key, then double click the **【Scroll Lock】→the left【Ctrl】→【Enter】** , then the hot-key changes to the left **【Ctrl】** .

### ◆ Keyboard hot-key Operation:

Double click the right <b>【Ctrl】→ 1 or 2 →【Enter】</b>	Dual monitor mode. Select PC1 or PC2
Double click the right <b>【Ctrl】→ 3 or 4 →【Enter】</b>	Matrix monitor mode. Cross switch the video and audio output from PC1 or PC2
Double click the right <b>【Alt】</b>	Keyboard, mouse and USB Hub circular switching.
Double click the right <b>【Ctrl】→【S】→【Enter】</b>	Turn on/off the Auto-scan function, You can also press the scan on front panel
Double click the right <b>【Ctrl】→【S】→ n →【Enter】</b>	Set the scan interval, Can set to 8-999 seconds (The system defaults to 8 seconds, n stands for interval time between 8-999)
Double click the right <b>【Ctrl】→【B】→【Enter】</b>	Turn on/off the beeping sound, If your keyboard hotkey does not work well, please use a generic keyboard to do so.
Double click the right <b>【Ctrl】→【T】→【Enter】</b>	Turn on/off the detecting function (default is off)
Double click the right <b>【Ctrl】→【R】→【Enter】</b>	Reset the KVM switch to solve the keyboard and mouse freeze
Double click the right <b>【Ctrl】→【H】→【Enter】</b>	Turn on HDCP (default is off)
Double click the right <b>【Ctrl】→【P】→</b>	Turn off HDCP

【Enter】	
Double click the right 【Ctrl】 → 【TAB】 → 【Enter】	Restore the hotkey to the default --- right 【Ctrl】
Double click the right 【Ctrl】 → 【ESC】 → 【ESC】 → 【Enter】	Reset factory setting for KVM switch to solve the problem of keyboard and mouse

## ◆ Sound Card Settings :

Right click  on the desktop taskbar, popup task box , Click 'Playback devices', then jump out of the interface shown in Figure A.

Then select the 'AMD HDMI Output', right click and show as Figure B. And then select the 'Set as Default Device'.

It displayed tick status  AMD HDMI Output  
AMD High Definition Audio Device  
Default Device, which indicates successful setup. As the Figure C.



Figure A



Figure B

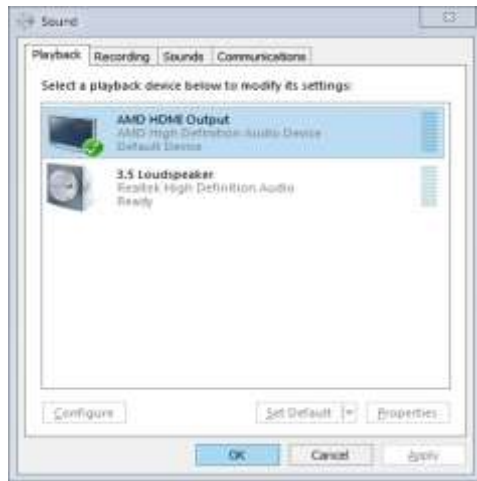


Figure C

### ◆ Whats included

1x KVM switch

2x USB 3.0 cables

4x HDMI 2.0 cables or DP1.2 cables (depending on different modes)

1x wired remote with mini USB cable

1x IR remote with IR receiver (battery not included)

1x Power adapter (DC 5V 2A 5.5mmx2.5mm)

1. User manual in English

### ◆ FAQ & Trouble Shooting

**Q1: Keyboard or mouse does not work:**Make sure the USB 3.0 cable is already connected from each computer to correspondent USB B port on the switch;

- 1) Some keyboard and mouse with special features may not work well with the hotkeys on USB keyboard and mouse port, if so, please use the USB 3.0 HUB port(s), or turn off the hotkeys, without hotkeys, user can use the the wired remote or IR remote or front button to switch between computers and display modes;
- 2) For wireless keyboard and mouse which share a unified dongle , the dongle must be plugged into the port marked with keyboard (with hotkeys), or USB3.0 HUB (no Hotkey);
- 3) Power cycle the KVM switch to re-identify the USB devices, if the keyboard and

mouse stop working after a certain time of use.

**Q2: Monitor(s) does not display or images display improperly:**

- 1) Check if the cables are connected well or swap the cables, see if it is cable or adapter problem;
- 2) To get dual monitor display, make sure each computer has 2 video connections to correspondent IN A and IN B ports;
- 3) Power cycle the KVM switch and reboot computers to recognize monitors.
- 4) Avoid using adapters on both computer and monitors for a same video flow. For example, if an adapter is used for connecting IN A port, then do not use another adapter for connecting monitor A.

**Q3. Does it work with USB-C (Type C) Laptops?**

Yes, but depends on the USB-C dock/adapter quality which is beyond what we can control.

**Q4. How can I turn off the beep sound?**

You can double click the right Ctrl → B → Enter to turn the beep on/off.

If your keyboard hotkey does not work well, use a generic for turning off the beep.

**Q5: Why it takes longer time when switching between dual monitor mode and matrix monitor mode?**

When switching between dual monitor mode and matrix monitor mode, the systems need to re-recognize the all the connected devices, it normally takes around 7 seconds.

**Q6: Does the USB 3.0 cable draws power from computer to the KVM switch?**

Yes it does, If in case the power supply is not enough to drive power hunger device, the package also includes a power adapter (AC to DC 5V 2A 5.5mmx2.5mm).

**Q7: My question / issue is not listed above?**

Please reach out seller for support needed.