

User Manual

Dual Monitor KVM Switches

Updated on 05-27-2022

INDEX

Applicable Models.....	2
Product Descriptions.....	2
Product Features.....	2
Data Sheet.....	3
Important Reminders before Set-up.....	3
Installation Guide.....	4
Box Content	4
Connection Diagrams.....	5
Dual Monitor Display Settings.....	6
Switch Modes.....	6
How to Turn on/off mouse and keyboard hotkey.....	8
How to Change Default Hotkey.....	8
Keyboard Hot-key Menu.....	9
Sound Settings.....	9
FAQs & Trouble Shooting.....	11
Technical Support.....	12



Video Demo



CKL Support

Applicable Models:

922HUA: 2 Port HDMI KVM Switch Dual Monitor 4K 30Hz

942HUA: 4 Port HDMI KVM Switch Dual Monitor HDMI KVM Switches 4K 30Hz

Other applicable models (different video interface type but same working principle):

822UA: 2 Port VGA KVM Switch Dual Monitor 2048x1536@450MHz

922D: 2 Port DVI KVM Switch Dual Monitor 2048x1536@450MHz

922HV: 2 Port HDMI + VGA KVM Switch Dual Monitor 4K@30Hz / 2048x1536@450MHz

942HV: 4 Port HDMI + VGA KVM Switch Dual Monitor 4K@30Hz / 2048x1536@450MHz

Product Description:

These dual monitor KVM switches are for controlling 2 or 4 computers, laptops or servers, using an independent set of keyboard and mouse. It has 2 monitor outputs for extended or mirrored display (requires 2 video inputs from each computer source) , with an extra USB 2.0 HUB to share one more USB device between computers. Mouse and keyboard can be used alternately between two monitors to view and operate on two interface files respectively, and switch between computers conveniently using keyboard, mouse, push button, wired remote or auto scan.

Product Features:

- One USB console controls 2/4 multi-graphics card dual-output computer and other devices.
- Support extended or duplicated display depending on computer setting.
- Support Resolution:
 - ① For HDMI: 480i, 480p, 720p, 1080i, 1080p and 4K@30Hz.
 - ② For VGA: 2048*1536@450MHz
 - ③ For DVI: 1920*1080@30Hz/60Hz
- Multiple platforms support: Windows 10/7/2000/XP/Vista、Linux and Mac;
- Support hot plug & play
- Support HDCP and auto EDID for Dual HDMI KVM Switch
- Support DDC2 for Dual VGA KVM Switch
- Support auto detection, if one computer is powered off, the switch will automatically switch to the next powered-on computer (default as inactive, please follow Hotkey operation for activation.).
- With memory function in case of power-down
- Support independent mouse keyboard switch, even without USB signal input, you can switch the input device easily by keyboard or mouse.
- Auto Scan Mode for monitoring all computers /DVR/NVR
- With USB2.0 Hub and separate audio & microphone output

Data Sheet (for 922HUA and 942HUA):

Section	Type	Description	Gender	Number of Port
INPUT	Video	HDMI	Female	4 (2 port) 8 (4 Port)
	USB	- (via cable A)	-	-
	Power	DC 5 V 2 A (5.5x2.5mm)	Female	1
OUTPUT	Keyboard	USB Type A	Female	1
	Mouse	USB Type A	Female	1
	Monitors	HDMI	Female	2
	Audio	3.5mm Jack (Green)	Female	1
	Microphone	3.5mm Jack (Pink)	Female	1
	USB 2.0 HUB	USB Type A	Female	1
Others	Push Button	2 (2 port), 4 (4 port)		
	LED Indicator	3 (2 Port), 5 (4 port)		
	Resolution	Maximum 4096×2160@30Hz or 3840x2160@30Hz		
	Auto Scan Interval	8-999 seconds (adjustable)		
	Power Consumption	DC 5V 2A (1.5W) 5.5mmx2.5mm		
	Operation Environment	Working Temperature 0-50°C , Store Temperature -20-60, Humidity 0-80%RH (No condensation)		
	Housing Material	Metal		
	Dimension	130×75×42MM (2 port) 200×75×42MM (4 port)		

Important Reminders before Set-up:

- Dual monitor KVM Switches require dual video inputs. Most computers and laptops only have one HDMI output + VGA/DVI/DP/USB C output or other mixture, make sure you have right adapters ready before setup, you may need multiple adapters for multiple computers' connection. **It is hard to make one that fits all especially when multiple computers are involved, and hard to include different adapters which will increase cost for not needed.**
- Simple video conversion cable is not recommended, they may work directly with computers but may not work through KVM switches.
- VGA to HDMI, HDMI to VGA, HDMI to DP adapters need to be individually powered.
- Active DisplayPort to HDMI adapter is required for converting DP source to HDMI.
- Most adapter do not work bidirectionally, please make sure you use the right adapter direction.
- Dell docking station is recommended for laptops which do not have dual HDMI outputs.

Installation Guide (Scan this QR code to watch the video guide):



Video Demo

1. Power off everything before installation;
2. PC 1: Connect cable A (USB + HDMI + Audio combo cable) to PC 1 IN A (bottom HDMI), the end with USB, HDMI and audio jacks must be plugged into PC 1, the other end with only HDMI must be plugged in IN A port, this is important to get the keyboard, mouse, HDMI Out A and audio work from the KVM switch; Connect cable B (standard HDMI cable) from a second video output (use adapter if needed) to PC IN B port.
3. PC 2: Follow step 2 to connect PC 2 to PC 2 IN A and IN B port.
4. keyboard and mouse: plug them into USB ports marked with keyboard and mouse icon respectively;
5. Monitor A and B: connect monitors to HDMI Out A and Out B;
6. Power adapter: Connect the included power adapter;
7. Audio device and wired remote: Optional;
8. Power on the KVM switch, then monitors, then computers;
9. Set computer to extended or duplicated mode accordingly.

Note:

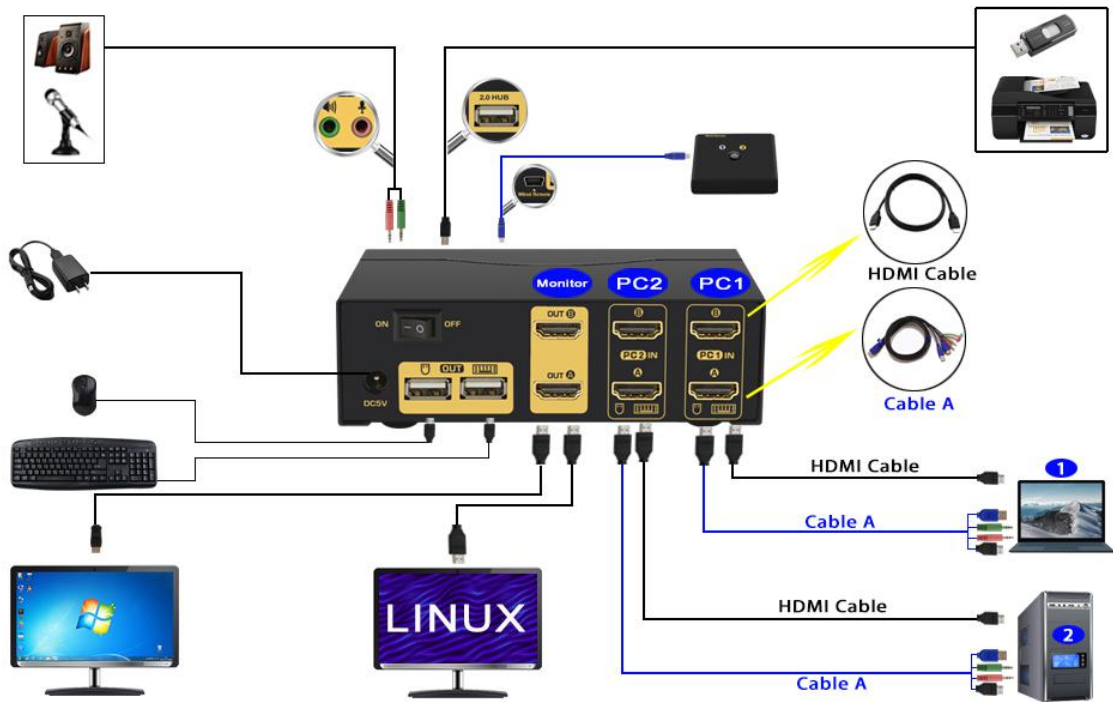
① The monitors may take around 20 seconds to display at first set-up, later on it only takes around 2-3 seconds to display upon switching.

② **For durable and stable performance, best practice is to power off everything after daily use, and prevent damage on ports from rough handling.**

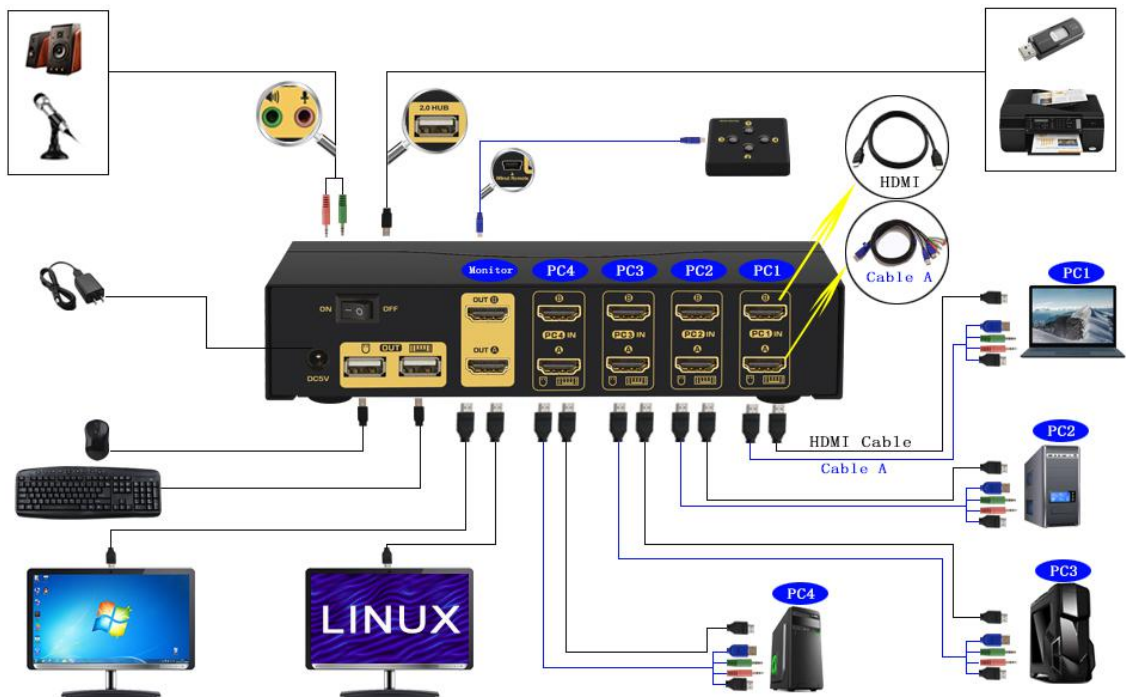
Box Contents (for 922HUA and 942HUA):

- 1* 2 or 4 Port Dual KVM Switch
- 2 or 4* Cable A 4.92 Feet (1.5 Meters)
- 2 or 4* Cable B 4.92 Feet (1.5 Meters)
- 1* Wired remote switcher
- 1* power adapter (DC 5V 2A 5.5mm x 2.5mm)
- 1* user manual in English

Connection Diagrams:



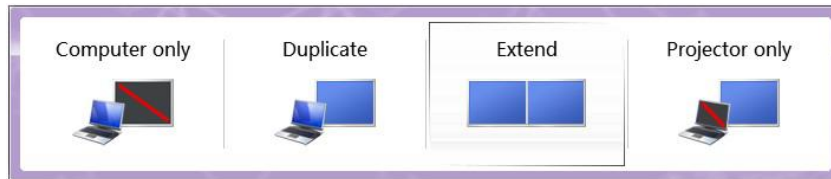
Example 1: 922HUA



Example 2: 942HUA

Dual Monitor Display Settings:

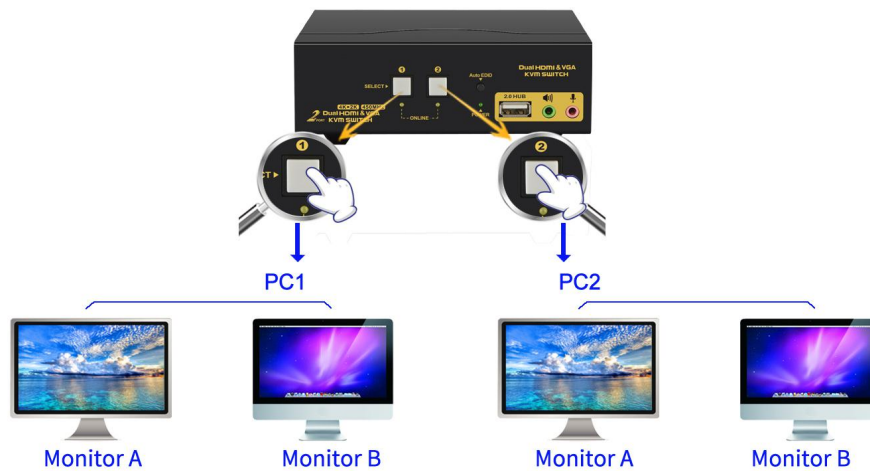
Take win 10 as an example: hold down the keyboard windows key+P, a dialog will pop up as below.



Select Duplicate or Extend, then the two monitors can be displayed at the same time per selected display mode. It can be also set in the display settings or default as Extended mode.

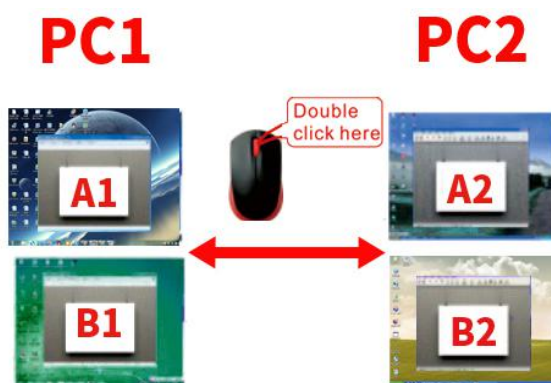
Switch Modes:

1. **Button Switch:** Switch to any port by buttons on front panel. Orange LED under push button indicates which Input device you selected.



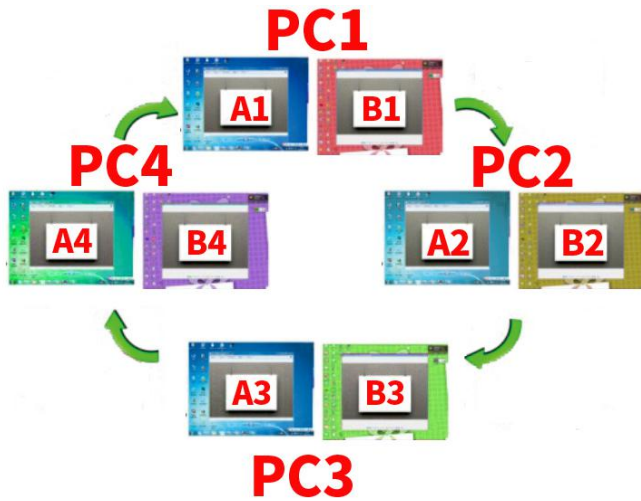
2. **Click mouse Switch :**

1) 2-port model: Double click the mouse middle roller (within 1 second) for back and forth switching

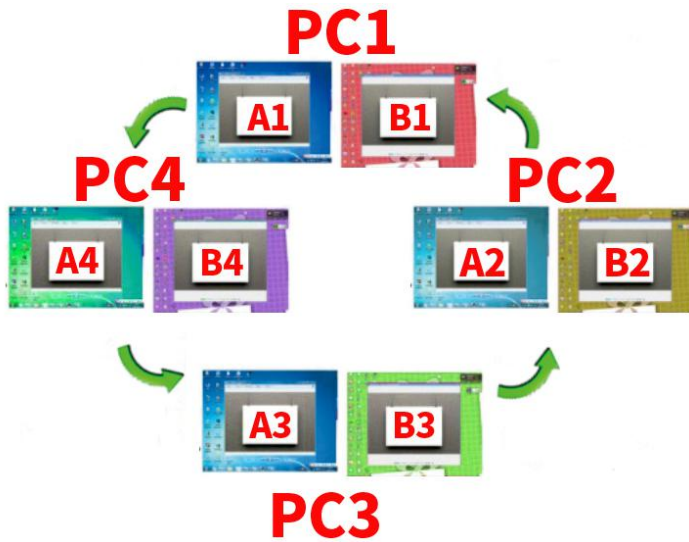


2) 4-port model:

a. Double click the middle roller of mouse, and then press the right mouse button to switch to the next port.



- b. Double click the middle roller of mouse, then press the left mouse button to switch to the previous port.



3. **Keyboard Hot-key Switch** : Double click the right **【Ctrl】** , then Port Number, then **【Enter】**

4. **Wire Remote Switch**: Switch to any port by remote button after you plug it to the KVM.



How to Turn on/off mouse and keyboard hotkey:

1. Turn off mouse switch:

When hotkey switch is on (default as on and 'Hotkey on' lights in green), double click right **【Ctrl】** → **【M】** → **【Enter】**, after 'beep' sound, mouse switch function is turned off, the USB mouse port will be changed to a Standard USB 2.0 HUB. The "Hotkey ON" light still shows green.

2. Turn off Keyboard Hotkey:

When hotkey switch is on, click right **【Ctrl】** → **【K】** → **【Enter】**, after 'beep' sound, the keyboard hotkey switch is turned off, the USB keyboard port of KVM will be changed to a standard USB 2.0 HUB. The "Hotkey ON" light is off.

3. Restore Hotkey Function:

When mouse switch and keyboard hotkey switch are turned off, you could press 'Hot key on/off' button to restore Hotkey function ('Hotkey On' light will be turned on in green).

Note: The Hotkey on/off function is optional for the following scenarios:

- ①. Mouse click switch function conflicts with your mouse click needs.
- ②. When your special gaming, multimedia or mechanical keyboard and mouse do not work well on USB keyboard and mouse ports which are dedicated for hotkey, by turning off the hotkey function you will have 3 standard USB 2.0 Hubs for connecting your keyboard, mouse and more USB devices, and use the wired remote or front push buttons to switch between computers.



How to Change Default Hotkey:

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

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】**, and you want to set the hot-key as the left **【Ctrl】** key, then double click the **【Scroll Lock】** → the left **【Ctrl】** → **【Enter】**, then the hot-key changes to the left **【Ctrl】**.

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】	

Keyboard Hotkey Menu:

Double click the right 【Ctrl】→【N】→【Enter】	The KVM can switch to the equipment you choose.
Double click the right 【Ctrl】→【S】→【Enter】	Turn on/off the Auto-scan function
Double click the right 【Ctrl】→【S】→【N】→【Enter】	Set the scan interval, Can set to 8-999 seconds (The system defaults to 8 seconds)
Double click the right 【Ctrl】→【B】→【Enter】	Turn on/off the beeping sound
Double click the right 【Ctrl】→【T】→【Enter】	Turn on/off the detection function (default is off)
Double click the right 【Ctrl】→【R】→【Enter】	Reset the KVM switch to solve the keyboard and mouse freeze
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

Notes:

- ① Keyboard hotkey should be done in sequence within 1 or 2 seconds.
- ② “N” stands for Port number (1, 2, 3, 4) or auto scan interval time (seconds).
- ③ Keyboard and mouse must be plugged in the USB keyboard and mouse ports so hotkeys will be effective.
- ④ For wireless mouse and keyboard with a unified dongle, plug the dongle into the USB keyboard port for better performance.
- ⑤ For some high speed, optical, multifunctional, gaming or mechanical keyboards and mice, please plug into the USB 2.0 port on front panel, this connection does not support hotkey or mouse switching; or turn off hotkey (refer to Page 8).

Sound Settings:

These models support either 3.5mm analog audio (default) or HDMI digital audio via the same 3.5mm audio outputs on the front panel. You can use hotkey to change the settings as follows:

1. Press the right Ctrl twice, then H, then Enter to set the KVM switch to HDMI Digital audio, then select AMD HDMI Audio or Monitor A audio option as default.
2. Press the right Ctrl twice, then P, then Enter to set the KVM switch back to 3.5mm analog audio, then select your audio device as default.

AMD HDMI Output Setting on Computer



Right click on the desktop task bar to pop up task box click ‘Playback devices’, then a dialog jumps out as Figure A. Then right click the ‘AMD HDMI Output’ shown as Figure B. And then select the ‘Set as Default Device’. It displayed tick status as Figure C, which indicates successful setup.

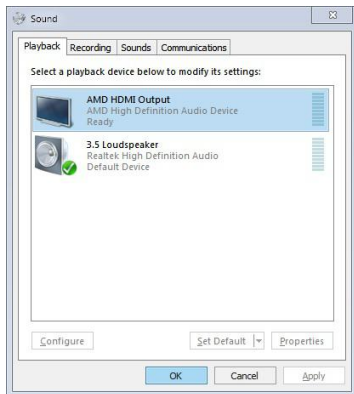


Figure A

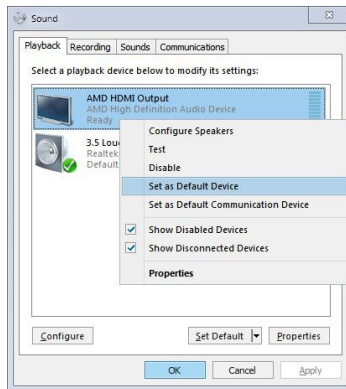


Figure B

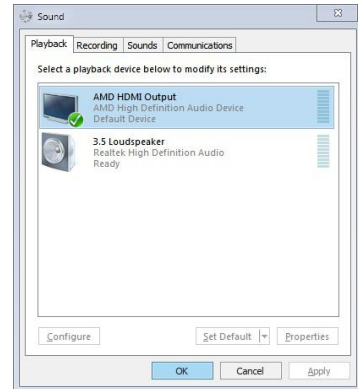


Figure C

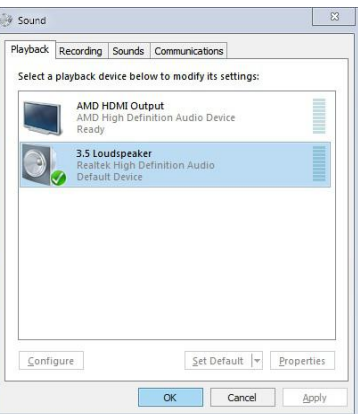
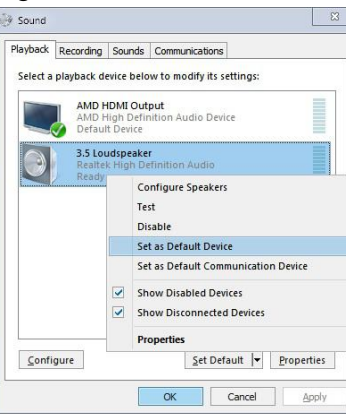
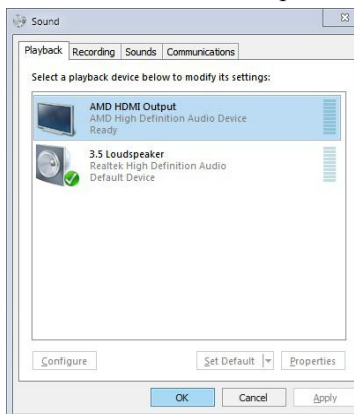
3.5 mm Analog Sound Settings on Computer



Right click on the desktop task bar to pop up task box , click ‘3.5 Loudspeaker’, then a dialog jumps out as Figure A. Then right click the ‘3.5 Loudspeaker’ as Figure B. And then select the 'Set as Default Device'.



It displayed tick status , which indicates successful setup as the Figure C.



FAQ & Trouble Shooting:

Q1: How to get the monitors work?

1. **Use right adapters needed:** refer to page 2-3 “Important Reminder before Set-up”.
2. **Watch video demo:** Please scan the QR code “Video demo” on the cover page for correct setup.
3. **Setup is correct but still no display:** power cycle the KVM switch, and reboot computers.
4. **Stops working after some time:** press the right Ctrl twice, then Esc 3 times, then Enter, make sure the hotkey is on and the keyboard is plugged in the USB keyboard port when you do so. If no change, unplug and replug cables then power cycle the KVM switch and reboot your computers.
5. **Cable issue:** Swap cables to see if the issue stays with a specific cable.

Q2. How to get the keyboard and mouse work?

1. **Watch Video Demo:** Please scan the QR code on the cover page to watch the video demo and check if you set it up correctly. **Especially cable A (USB+HDMI+Audio) must be connected correctly.**
2. **Stops working after some time:** , try press the right Ctrl twice, then Esc 3 times, then Enter, If no change, power cycle the KVM switch and reboot your computers to see if it helps.
3. **Special keyboards and mice:** they may not work well on the USB keyboard and mouse ports which are dedicated for hotkey, the workaround is to turn off the hotkey, and use the wired remote instead or front push button.
4. **Cable issue:** Swap cables to see if the issue stays with a specific cable.

Q3. How can I turn off the switching beep?

Press the right Ctrl twice, then B, then Enter. If in case your keyboard does not work with the hotkey, please use a generic keyboard to do so. Make sure hotkey is on and the keyboard is plugged in the USB keyboard port when you do so.

Q4. Why my keyboard hotkey does not work?

1. **Hotkey sequence:** Make sure the hotkey is done in right sequence within 1 or 2 seconds (not holding them together) ;
2. **Special keyboards and mice:** they may not work with the hotkey. That’s why we added hotkey on/off button and wired remote as workarounds.
3. **Default Hotkey maybe changed:** Press Num. Lock or Scroll Lock or Left Ctrl twice instead of right Ctrl twice, just in case the default hotkey was changed to one of those keys.

Q5: My laptop or computer only have 1 HDMI out, how can I connect it to the KVM switch?

Please refer to page 2-3 “**Important Reminder before Set-up**” to make sure you have right adapters or docking station.

Q6: Does it work with USB C laptops?

Yes, but make sure you have at least 2 USB C data ports besides a charging port, and you will need a USB C HUB with HDMI and USB 2.0 port, and another USB C to HDMI adapter.

Q7. How can I disable the mouse switching function?

Press the right Ctrl twice, then K, then Enter to turn off the mouse hotkey, or simply plug the mouse into the front USB 2.0 HUB port.

Q8. There is buzzing sound using the 3.5mm audio outputs, how can I fix it?

Refer to Sound settings (page 9) to change from 3.5mm analog audio to HDMI digital audio.

Technical Support:

If the above does not help and you have other issues which are not listed above, please scan below QR code to get support needed, we will reply within 24 hours during business days. Kindly note there might be some delay in response due to different time zones.



CKL Support