iSwitch 402KVM

4K60 4x2 Multiviewer with KVM

User Manual V1.0

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1. OVERVIEW

As a user-friendly 4K60Hz multiviewer processor with KVM switch, the **iSwitch 402KVM** is designed to display 4 channels 4K60Hz video sources on one 4K@60Hz display, the positions and sizes of each input window can be adjusted arbitrarily. With the built-in KVM feature, the user can control 4x PCs with a set of keyboard and mouse. The **iSwitch 402KVM** adopts cutting-edge pure-hardware structure design, which means there is no need for computer and control software. It can be controlled by front panel buttons, IR remote control, USB mouse & keyboard. The intuitive OSD interface ensures easy and fast setup for users of all technical levels.

2. FEATURES

- 4xHDMI 2.0 inputs, 2xHDMI 2.0 outputs,1xHDMI 2.0 loop out, all up to **4K@60Hz 4:4:4**.
- Display and control 4 input sources with only one set of mouse and keyboard.
- Play-and-Play, no need control software, just power up and operate it.
- Adjust inputs window size and switch signals by mouse and keyboard.
- The position and size of the 4 input windows can be adjusted **arbitrarily**.
- Multiple display layouts include quad-view, triple-view, dual-view and full view.
- Quad-view for 2 duplicate outputs or dual-view for 2 different outputs.
- External USB devices like printer, webcam, microphone, speakerphone can be shared by 4 PCs device at the same time via front USB ports.
- Each video window support freely overlay, resize, moving and overlap.

3. PACKAGE LIST

1 x iSwitch 402KVM

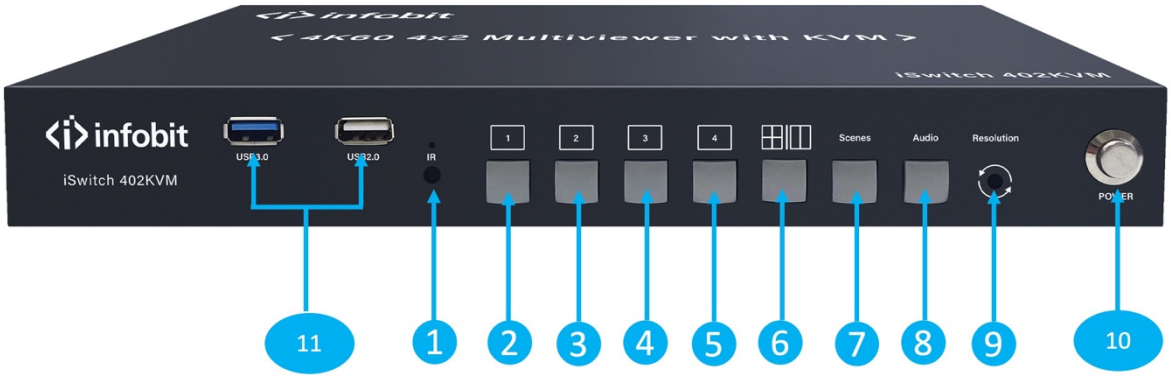
1 x AC Power Supply

1 x IR Remote control (without battery)

4x USB A to USB B cables, 1m

4x HDMI cables, 1m

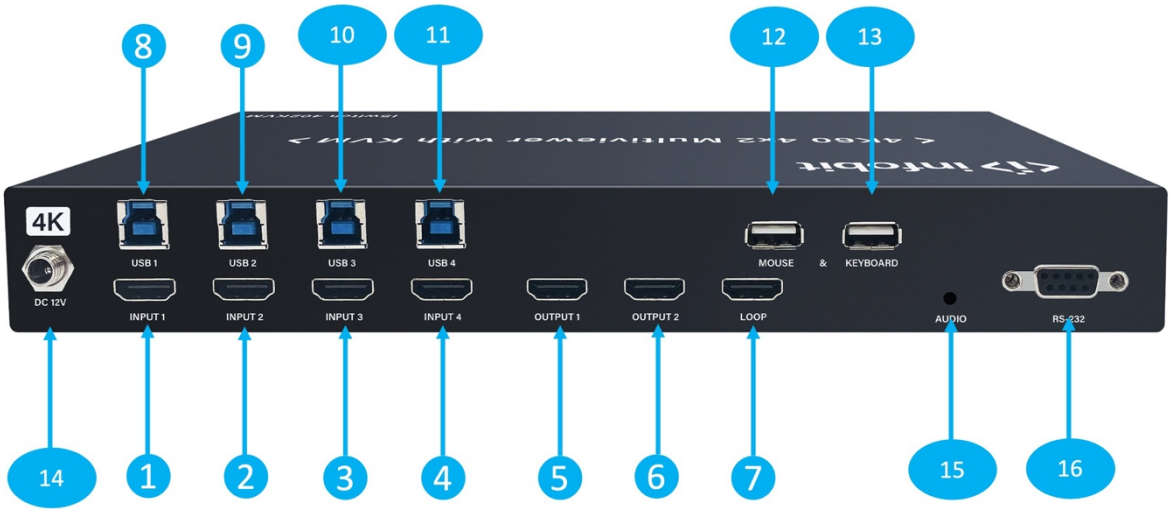
4. FRONT PANEL



No.	Name	Function
1	IR Receiver	Receive signals from the IR remote control.
2	1	Short press the button to select input 1 on full screen. Long press it for 3 seconds to select input 1 as loop out.
3	2	Short press the button to select input 2 on full screen. Long press it for 3 seconds to select input 2 as loop out.
4	3	Short press the button to select input 3 on full screen. Long press it for 3 seconds to select input 3 as loop out
5	4	Short press the button to select input 4 on full screen. Long press it for 3 seconds to select input 4 as loop out.
6		Switch between the Quad-view mode and Dual-view mode. **Quad-view** mode for 2 duplicate outputs **Dual-view** mode for 2 different outputs
7	Scenes	Select preset scenes from M1, M2 and M3.
8	Audio	Switching embedded audio among 4 HDMI inputs.
9	Resolution	Press the button to switch output resolution.
10	Power	Power ON/OFF switch.

11	USB	External USB device can be shared by 4 inputs at the same time via these 2 USB ports.

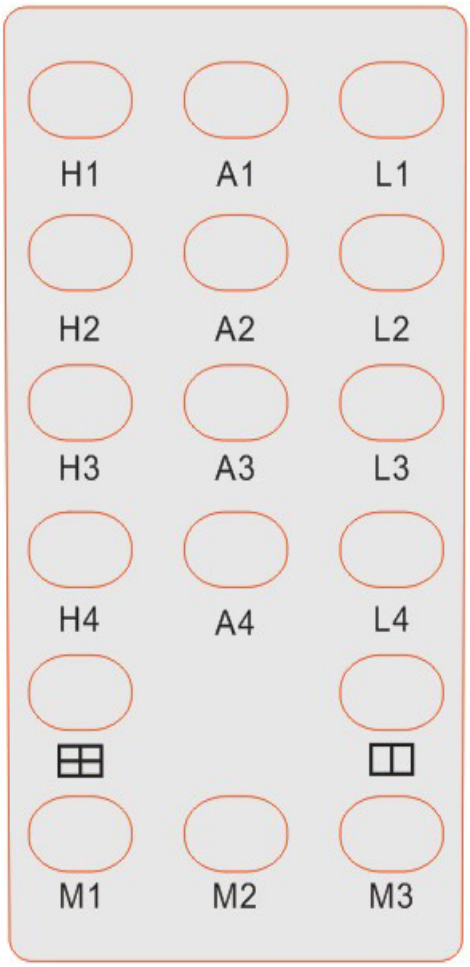
5. REAR PANEL



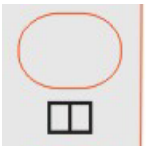
No.	Menu	Function
1	Input 1	HDMI input interface 1, resolution up to 4K60hz
2	Input 2	HDMI input interface 2, resolution up to 4K60hz
3	Input 3	HDMI input interface 3, resolution up to 4K60hz
4	Input 4	HDMI input interface 4, resolution up to 4K60hz
5	Output 1	HDMI output interface 1, resolution up to 4K60hz
6	Output 2	HDMI output interface 2, resolution up to 4K60hz
7	LOOP	HDMI loop out interface, resolution up to 4K60hz

8	USB 1	USB/BM input interface 1, connect it with PC input 1 for KVM control
9	USB 2	USB/BM input interface 2, connect it with PC input 2 for KVM control
10	USB 3	USB/BM input interface 3, connect it with PC input 3 for KVM control
11	USB 4	USB/BM input interface 4, connect it with PC input 4 for KVM control
12	MOUSE	Connect this USB interface with Keyboard/Mouse for KVM control.
13	KEYBOARD	Connect this USB interface with Keyboard/Mouse for KVM control.
14	DV12V	Power supply interface, DC 12V 2A
15	Audio	HDMI audio de-embedding output via this 3.5mm analog audio jack.
16	RS232	Third party central control via this RS232 interface.

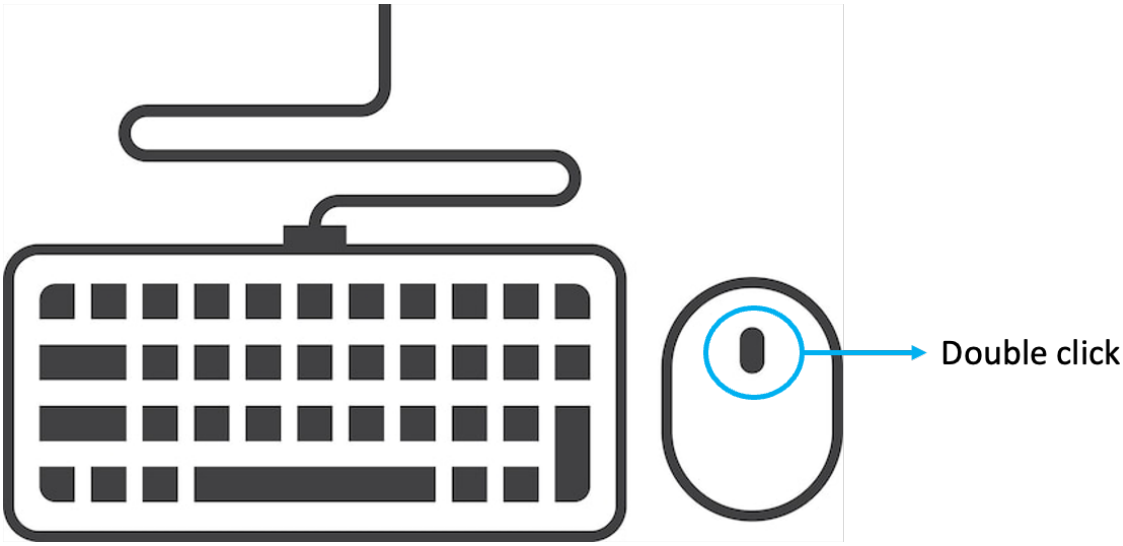
6. IR REMOTE



No.	Menu	Function
1	H1	Select input 1 on full screen display
2	H2	Select input 2 on full screen display
3	H3	Select input 3 on full screen display
4	H4	Select input 4 on full screen display
5	A1	Switch to audio of HDMI input 1
6	A2	Switch to audio of HDMI input 2
7	A3	Switch to audio of HDMI input 3

8	A4	Switch to audio of HDMI input 4
9	L1	Select input 1 as loop out
10	L2	Select input 2 as loop out
11	L3	Select input 3 as loop out
12	L4	Select input 4 as loop out
13		4-split screen for 2 duplicate output
14		2-split for 2 different outputs
15	M1	Recall scene 1
16	M2	Recall scene 2
17	M3	Recall scene 3

7. OSD

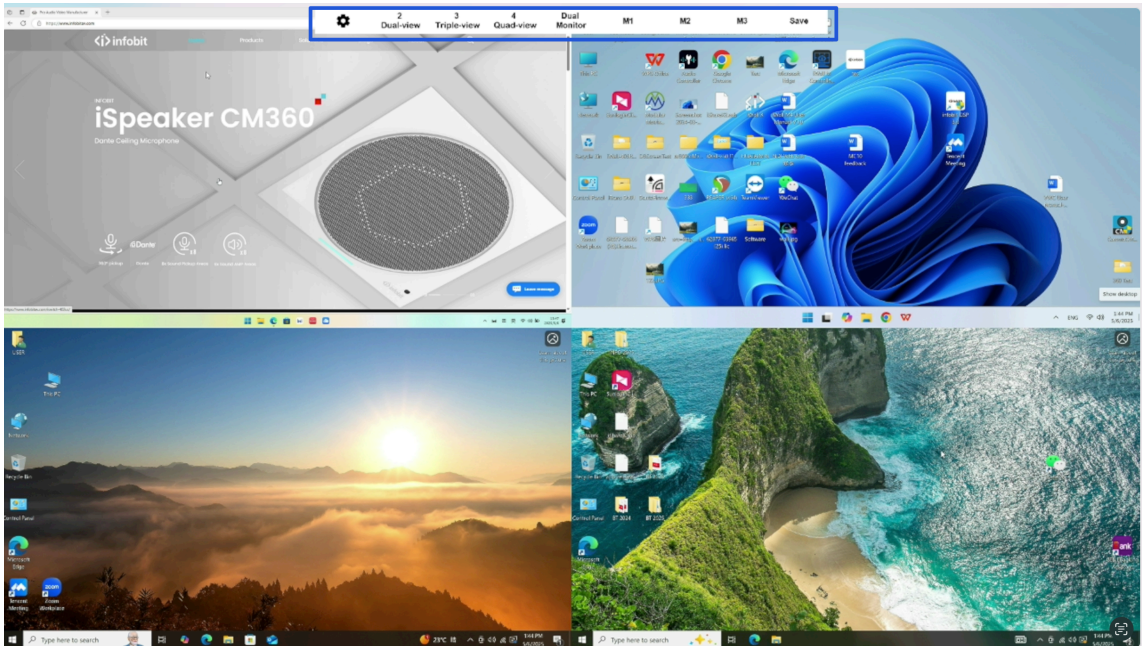


Double clicks the wheel button to enable the OSD menu.

By double-clicking the mouse wheel, you can switch between the functions of controlling the computers and controlling the input signal windows.

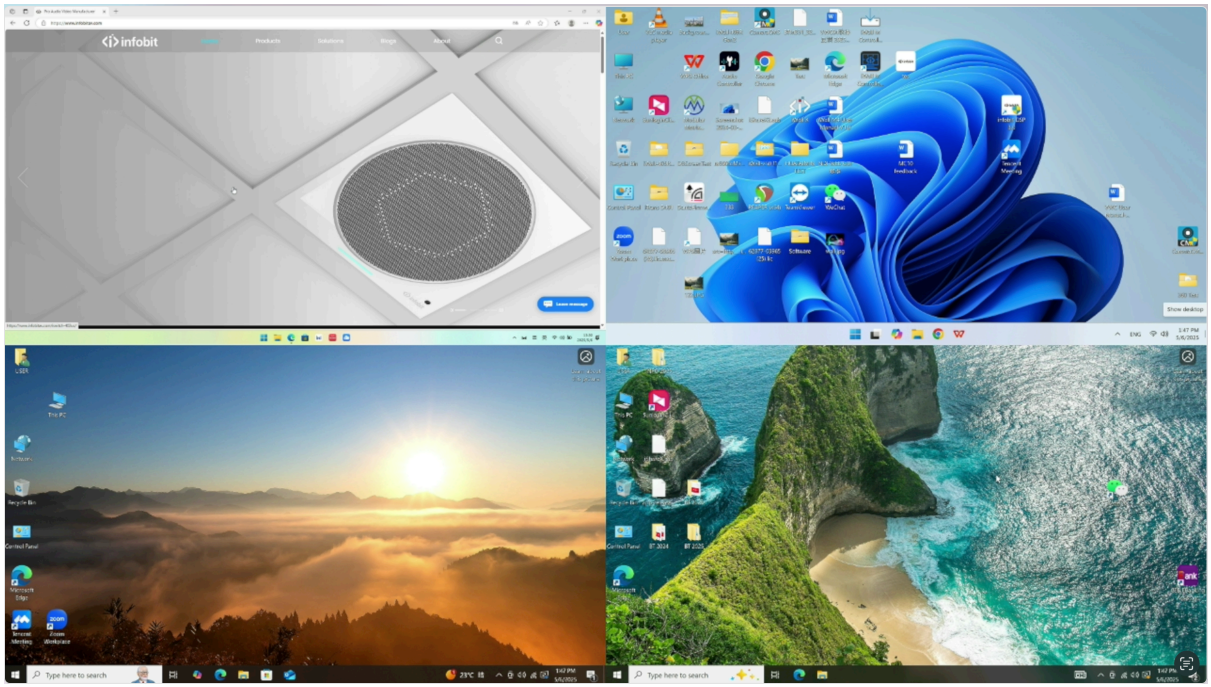
With Operation Menu-Control the input signal windows

When the OSD menu shows in the top layer, the mouse function is defined as the function of input signal window size, layout, signal switching, resolution adjustment, audio switching, etc., which is equivalent to the control software.

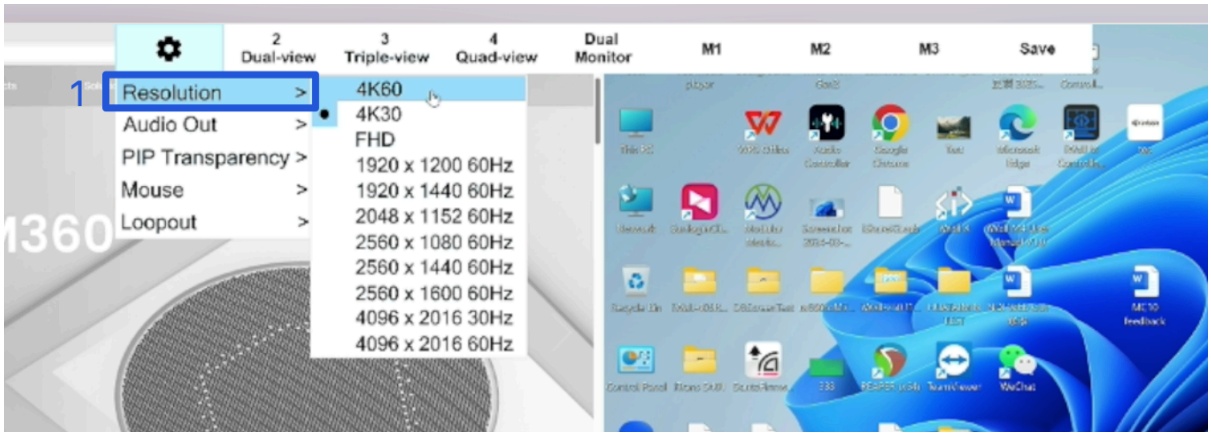


Without OSD Menu: Control the PCs (KVM Control)

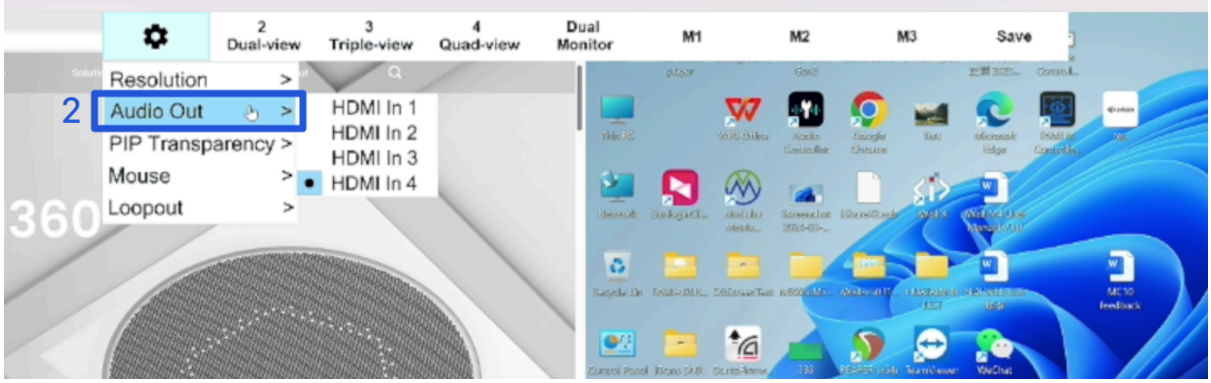
When the OSD menu does not show in the topmost layer, the mouse and keyboard functions are defined as KVM function, which can operate 4 PCs at the same time for multiple tasks.



The setting interface is as show below.

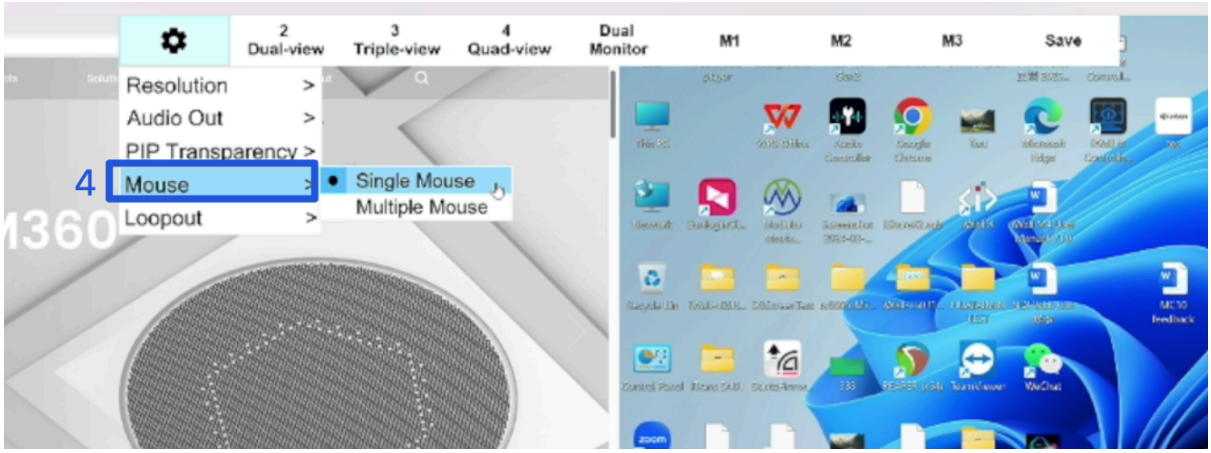


1	Resolution	Select output resolution, there are 11 options.

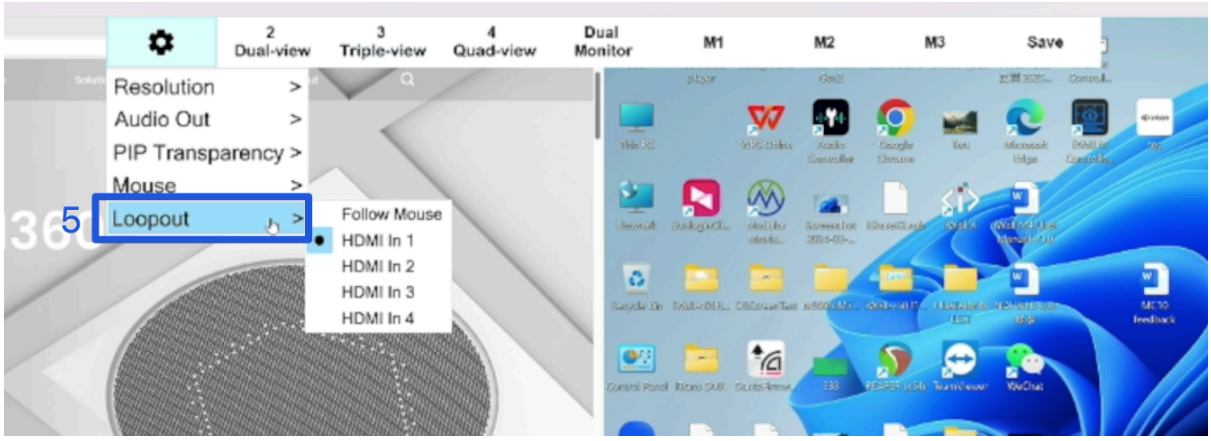


2	Audio Out	Select audio output from HDMI input 1 to 4.

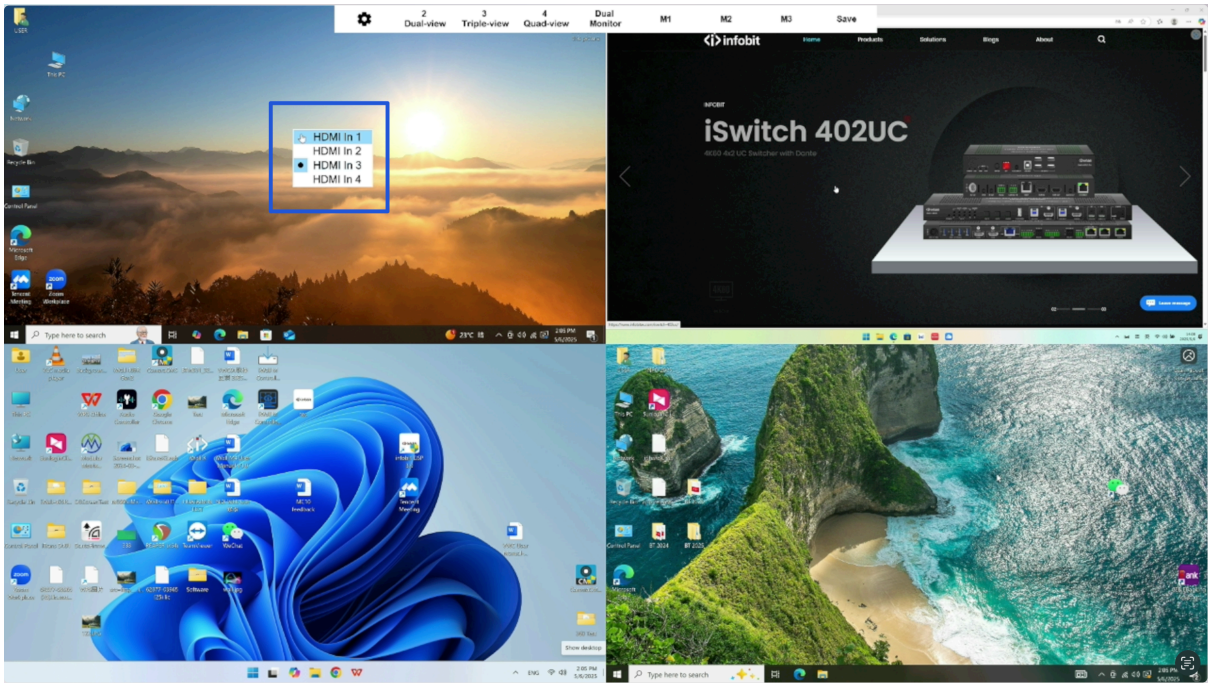
3	PIP Transparency	In PIP mode, using this menu to set the sub-window transparency. There are 6 options from level 0 to level 5.



4	Mouse	Switch between single mouse and multi-mouse mode. In **single mouse mode**, the user can control any one of the computers across the screen. In **multi-mouse mode**, the user can control 4 computers at the same time.

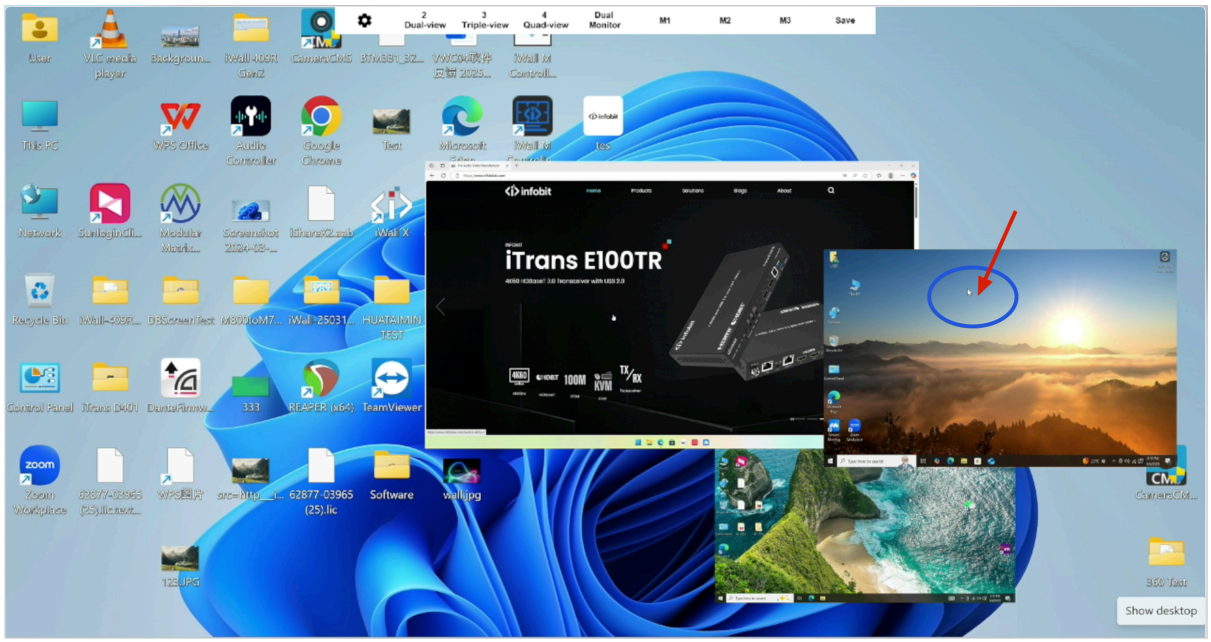


5	Loopout	Loop out setting. When **Follow Mouse** menu is ticked, it will automatically loop out the computer signal that the mouse is controlling. When the **Follow Mouse** is not ticked, the user needs to select the loop out from option HDMI input 1 to 4.

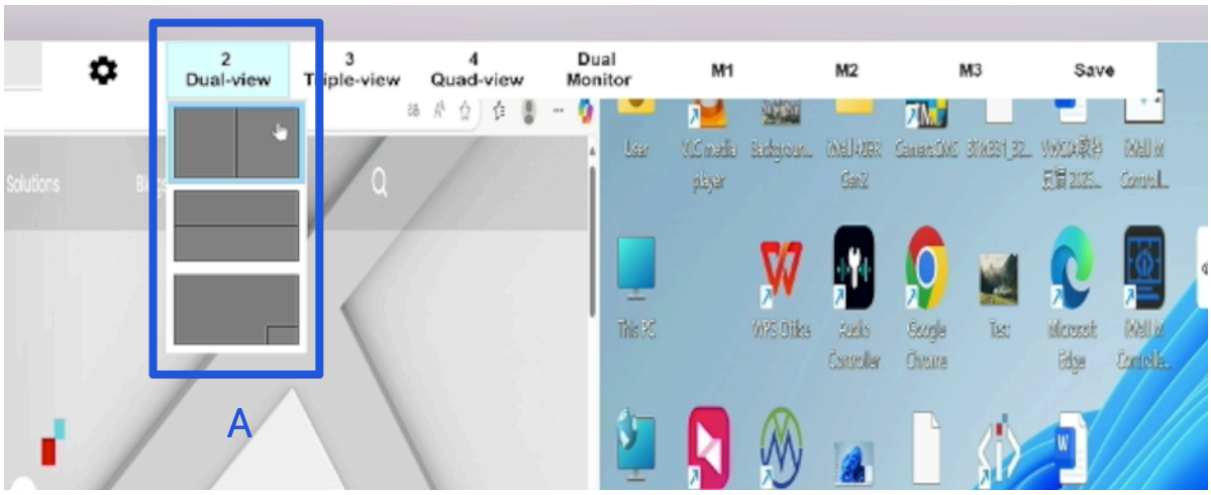


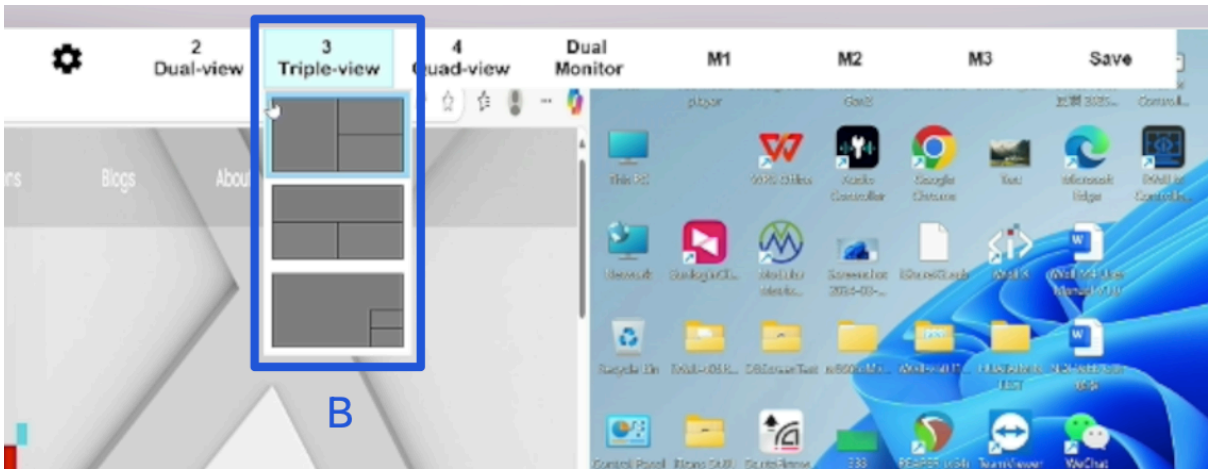
Signal switching: Click the right mouse button on any of the image window and select a different signal on the pop-up menu.

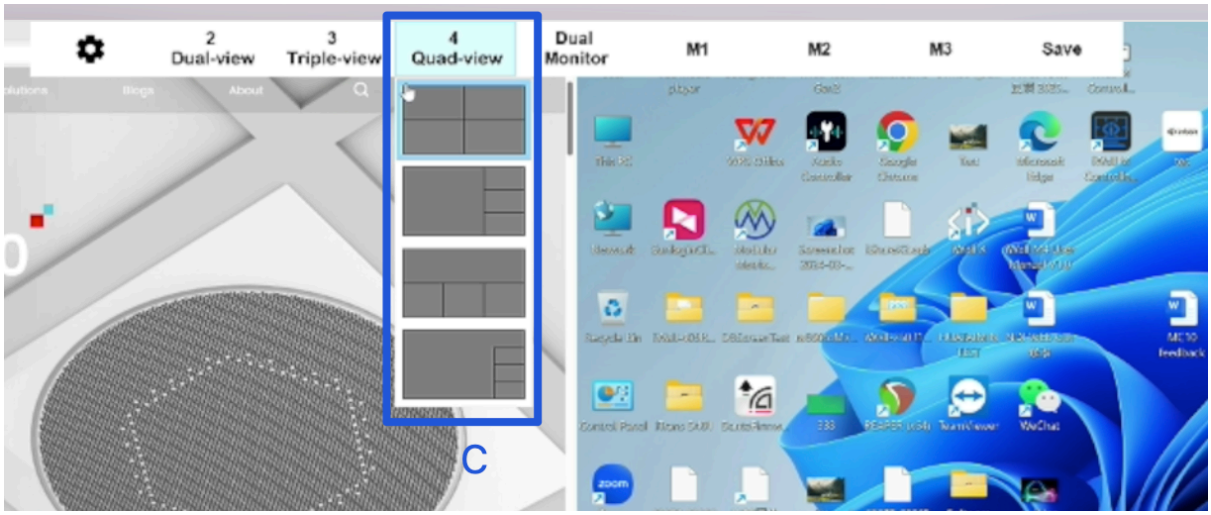
Signal in full display: Under non-PIP mode, double-click the left mouse button on any window to make current signal in full screen. Double-click again to return to original layout.



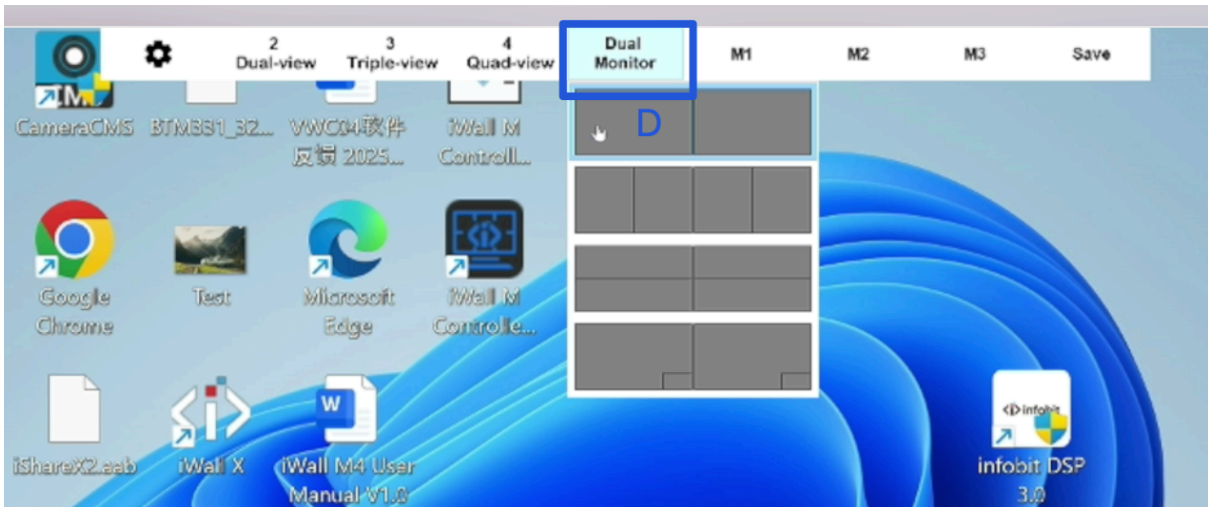
Signal's location swap: Under PIP mode, double clicking on the top layer window to swap location with the bottom layer window.



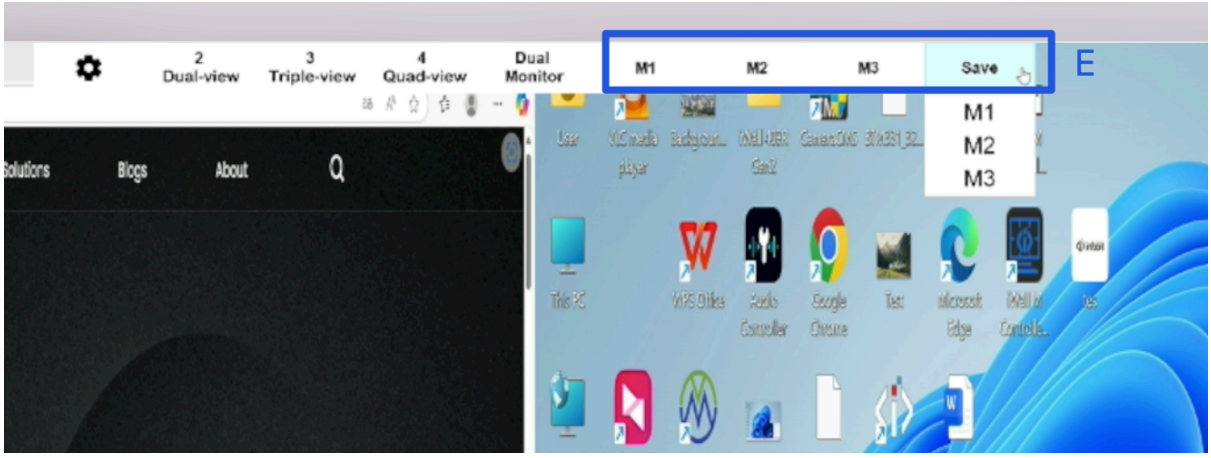




Duplicate Monitor (2 duplicate outputs)	**A:** Dual-view	2 images per display
	B: Triple-view	3 images per display
	C: Quad-view	4 images per display



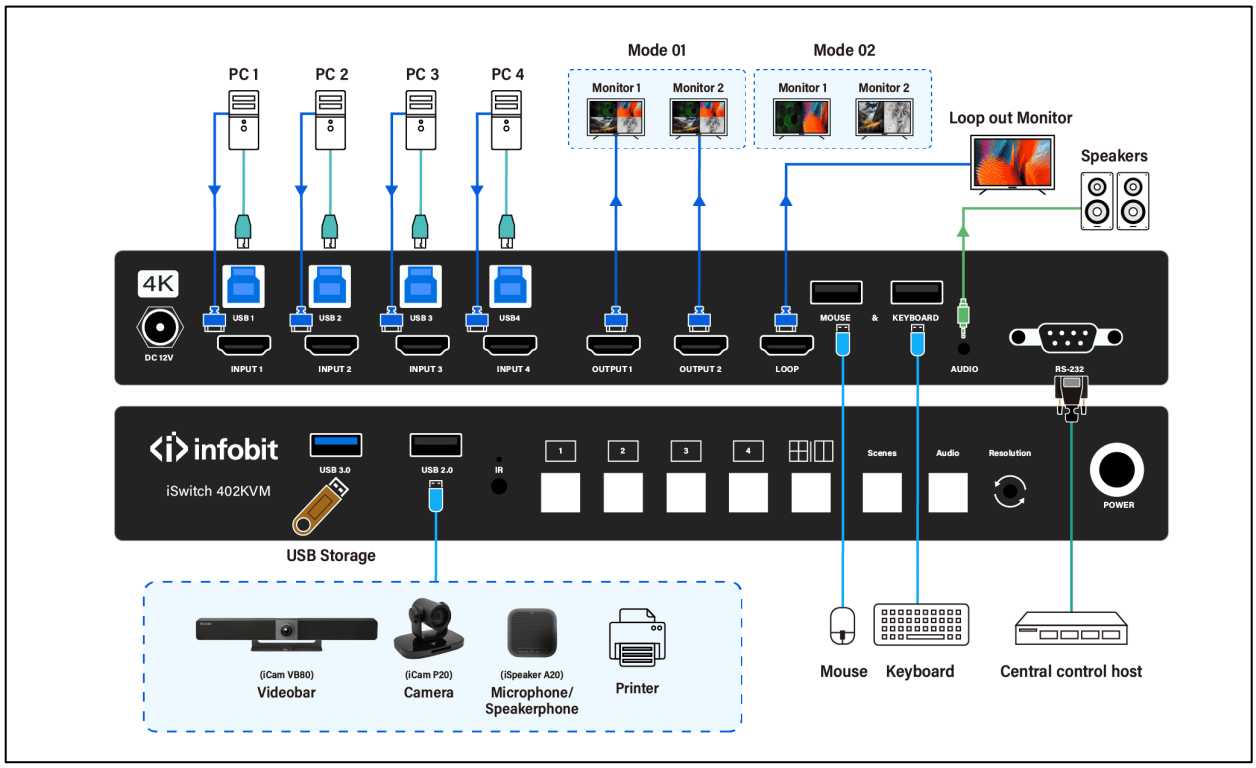
D: Dual Monitor (2 different outputs)	2-split screen or full screen



M1	Recall scene 1
M2	Recall scene 2
M3	Recall scene 3
Save	M1: Save scene 1
	M2: Save scene 2
	M3: Save scene 3

8. SPECIFICATION

Model	**iSwitch 402KVM**
Name	4K60 4x2 Multiviewer with KVM
Inputs	4 x HDMI, 4 x USB/BM, 1 USB2.0+1 USB3.0
Outputs	2 x HDMI, 1 x HDMI LOOP out
Audio Output	1 x 3.5mm
Input resolution	3840x2160@60Hz, 4:4:4
Output resolution	3840X2160@60Hz, 3840X2160@30Hz, 1920X1200@60Hz, 1920X1080@60Hz, 1920X1440@60Hz, 2048X1152@60Hz, 2560X1080@60Hz, 2560X1440@60Hz,2560X1600@60Hz, DCI 3840X2160@30Hz, DCI 3840X2160@60Hz.
Display mode	Quad/Triple/Dual/Full-view mode (for 2 duplicate outputs) Dual/Full view modes (for 2 different outputs)
Front Panel Buttons	**1/2/3/4: Short press** the number button 1/2/3/4 to select input 1/2/3/4 in full screen. **Long press** the number button 1/2/3/4 to select the input 1/2/3/4 to loop out. **:** Quad view mode for 2 duplicate outputs or Dual view mode for 2 different outputs **Scenes:** Select preset scenes from M1, M2 and M3. **Audio:** Select embedded audio from 4 HDMI inputs **Resolution:** Press the button to select output resolution. **ON/OFF:** Power on/off switch. **USB:** External USB device can be shared by 4 input PCs
IR	1 x IR remote control
USB	2 x USB/AM for mouse and keyboard
RS232	Command for third party control system
Power	DC 12V 2A

Power consumption	22W
Operating Temperature	-20°C ~ 60°C
Operating Humidity	10~90% RH
Dimensions	280x127x35 mm (L x W x H)
Weight	1Kg

9. DIAGRAM