

4×1 HDMI KVM Switch with MultiView Tiling — 4K60

Control Four PCs from One Desk with Seamless Switching, Quad-View Display & USB 3.0

MPN: KVM-4X1MV4K

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1. Introduction

Combines up to four HDMI sources on a single 4K display with eight layout modes — Single, PIP, PBP, Triple, and Quad — while sharing one keyboard, mouse, and USB peripherals across all four PCs. The KVM-4X1MV4K is a seamless switcher and multiviewer in one box, eliminating the need for separate monitors per computer.

Designed for NOC/SOC monitoring, broadcast production, AV control rooms, and multi-system developers who need eyes on four machines simultaneously. Supports 4K60 4:4:4 input and output, HDCP 2.2, seamless switching in single-screen mode, and fast switching in multiview mode. Audio de-embedding via RCA analog and optical S/PDIF with independent volume control. OSD menu, controller software, RS-232, IR remote, front-panel buttons, and keyboard/mouse hotkeys provide six ways to control. Ships with 4× USB cables, IR remote, and mounting ears.

2. Features

- HDMI 2.0b, HDCP 2.2/1.x compliant — 18Gbps, 4K2K@60Hz 4:4:4 input and output
- 8 display modes: Single, PIP, PBP (2 layouts), Triple (2 layouts), Quad (2 layouts) — adjustable aspect ratio
- Seamless switching in single-screen mode; fast switching in multiview mode — zero blackout
- USB 3.0 KVM sharing at 5Gbps — keyboard, mouse, webcam, storage follow the active window
- Audio de-embedding via RCA analog + optical S/PDIF; independent volume control and audio source selection
- Six control methods: front panel, IR remote, keyboard/mouse hotkeys, OSD menu, controller software, RS-232
- OSD navigation for advanced multiview layout, resolution, audio, and EDID configuration
- Output resolution switching via RES button — auto or manual, supports custom timing
- Ships with 4× USB 3.0 cables, IR remote, mounting ears — compact 220×100×44mm metal enclosure

3. Package Contents

- 1× 4K60 4×1 Seamless UHD Video & USB 3.0 KVM Switcher
- 1× IR Remote
- 1× 38KHz IR Receiver Cable (1.5m)
- 1× 3-pin Phoenix Connector
- 4× USB 3.0 A-to-B Cable (1.8m)
- 2× Mounting Ears + 4× Screws
- 1× 12V/2.5A Locking PSU
- 1× User Manual

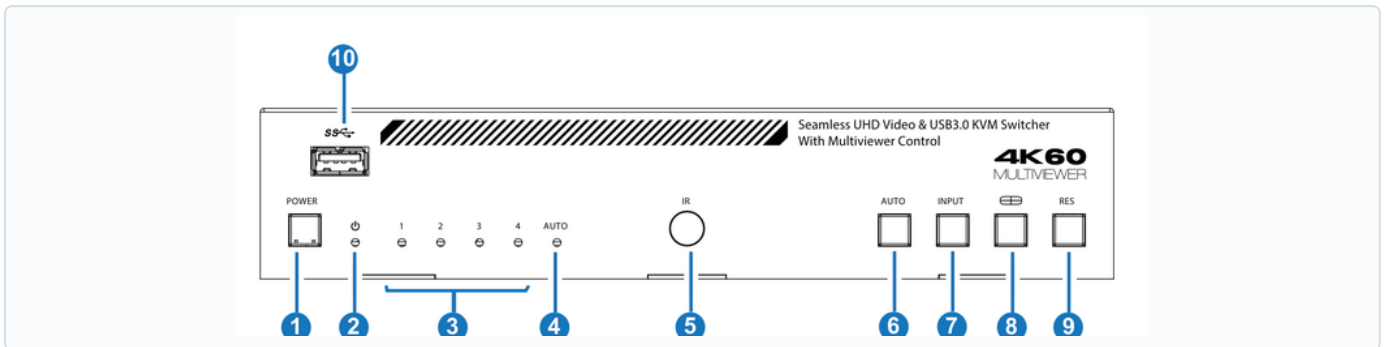


4. Specifications

Technical	
HDMI / HDCP	HDMI 2.0b, HDCP 2.2/1.x
Video	4K60 4:4:4 • 18 Gbps • 8/10/12-bit
Audio	PCM 2.0/5.1/7.1, DD+, DTS (no HBR)
Audio Output	RCA L/R (PCM 2.0) • Optical S/PDIF (DD/DTS 5.1, PCM 2.0)
Connection	
Inputs	4× HDMI • 4× USB-B Host
Output	1× HDMI • 1× RCA L/R • 1× Optical S/PDIF
USB Device	3× USB 3.0 + 2× USB 2.0 (KB/Mouse)
Control	RS-232 • IR EXT • OSD • Software
Mechanical	
Dimensions	220 × 100 × 44mm — 443g
Power	DC 12V/2.5A • 18.48W max • CE/FCC/UL

5. Operation Controls & Functions

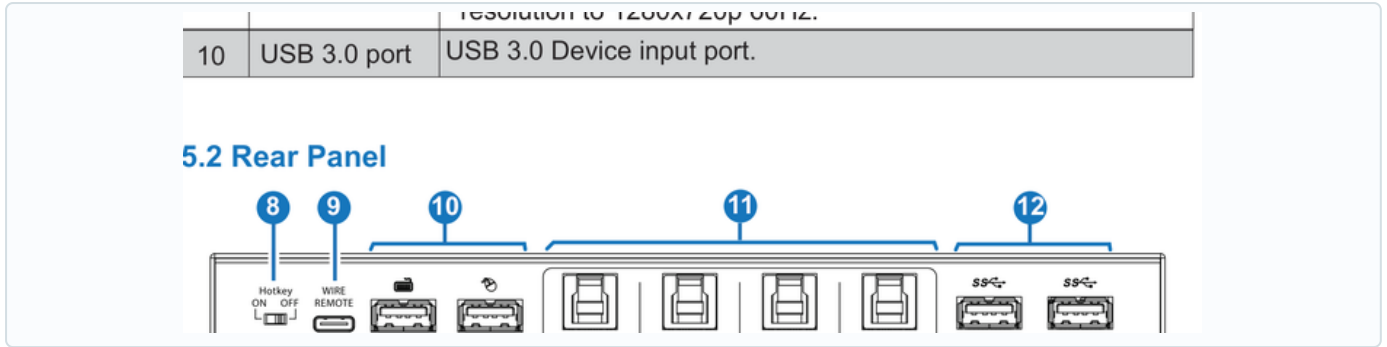
5.1 Front Panel



NO.	NAME	FUNCTION
1	POWER Button	Short press: power on. Long press (1s): standby.
2	Power LED	Green = on. Red = standby.
3	Input 1–4 LEDs	Green = active input. All green in multiview.
4	AUTO LED	Green = auto-switch enabled (single mode only).
5	AUTO Button	Toggle auto-switch in single-screen mode.
6	IR Window	38KHz IR receiver.
7	INPUT Button	Single: cycle inputs. MultiView: select window (yellow border).
8	MultiView Button	Cycle: Single → PIP → PBP → Triple → Quad. Long press: aspect ratio.
9	RES Button	Cycle output resolution. Long press: reset to 720p60.
10	USB 3.0 Port	USB 3.0 device input (flash drive, camera).



5.2 Rear Panel



NO.	NAME	FUNCTION
1	L/R Port	RCA analog audio output (PCM 2.0).
2	OPTICAL Port	S/PDIF optical digital audio output.
3	HDMI OUTPUT	Connect to 4K display.
4	HD 1-4 INPUT	HDMI inputs from 4 PCs.
5	RS-232	3-pin phoenix (115200 baud).
6	IR EXT	38KHz IR receiver cable port.
7	DC 12V	12V/2.5A locking PSU.
8	Hotkey Switch	ON/OFF for keyboard/mouse hotkeys.
9	WIRE REMOTE	Reserved for custom keyboard.
10	KB/Mouse Ports	2× USB 2.0 for keyboard and mouse.
11	HOST 1-4	USB-B to each PC (matches HD 1-4).
12	USB 3.0 Ports	2× USB 3.1 Gen 1 device ports.

6. MultiView Modes

Single: Full-screen, seamless switching between inputs. **PIP:** Main source full-screen with small overlay window. **PBP:** Two sources side-by-side (2 layouts). **Triple:** Three sources (2 layouts). **Quad:** All four sources visible (2 layouts). Long-press MultiView button to toggle 16:9/Full aspect ratio.

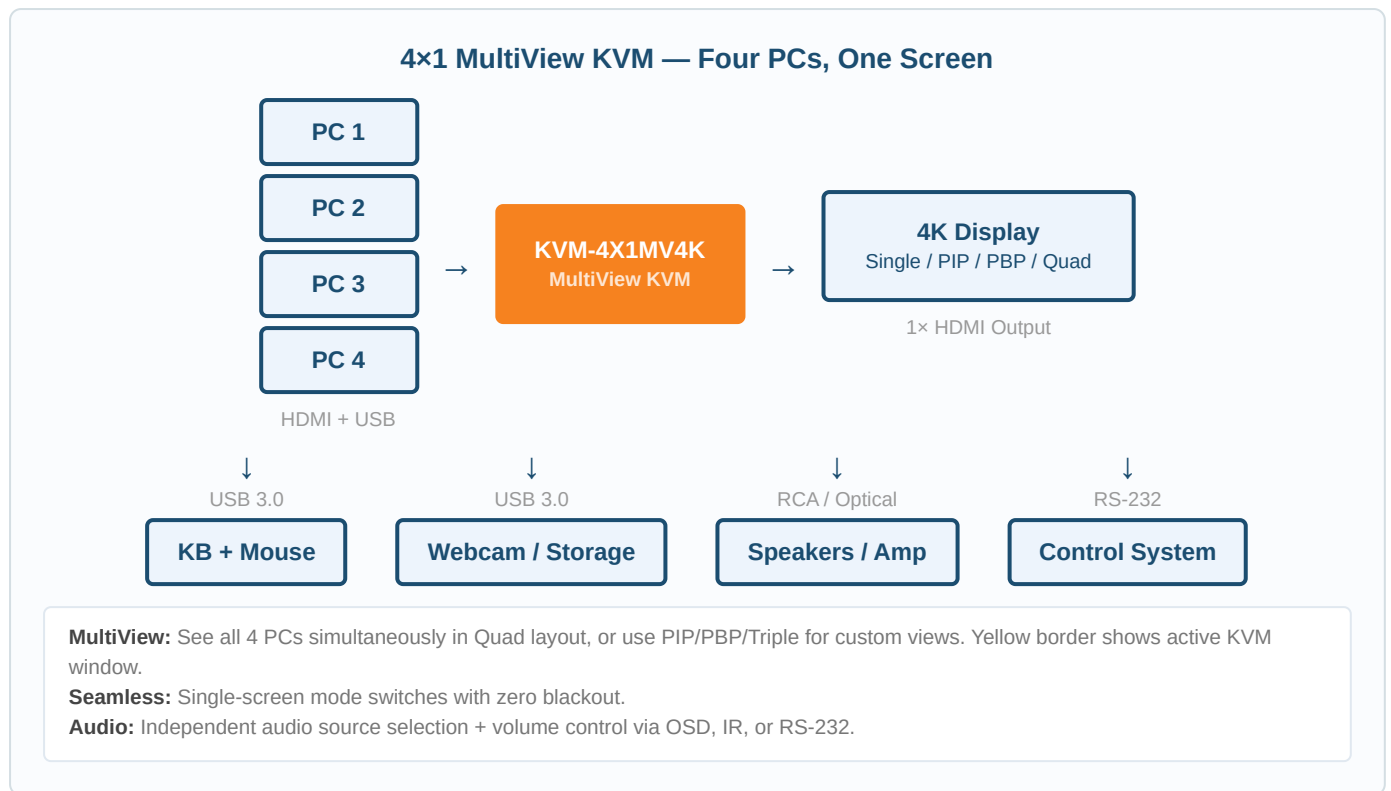
7. Hotkey & RS-232

HOTKEY (SCROLL LOCK×2)	FUNCTION
→ 1/2/3/4	Switch to input 1-4
→ PgUp / PgDn	Previous / next input
→ F12	Enable/disable buzzer

RS-232 COMMAND	FUNCTION
s input x!	Switch to input x (1-4)
s mv mode z!	Set multiview mode (0=single, 1-7)
s output res z!	Set output resolution
s audio source z!	Select audio source
r status!	Get device status
reset!	Factory reset



8. Application Example



9. Troubleshooting

Q: No video output?

A: Long-press RES button for 3s to reset to 720p60. Verify HDMI cable and display support 4K60.

Q: Multiview shows black in one window?

A: Check the corresponding HD input port and USB HOST connection. Verify the source PC is powered and outputting HDMI.

Q: No audio from optical/RCA?

A: Use IR remote A-IN button to select audio source. Check that source is outputting supported format (PCM, DD, or DTS).

Q: USB peripherals not switching?

A: In multiview, press INPUT to move yellow border to desired window. USB follows the yellow border.

