

2×1 Dual-Display HDMI KVM Switch — 4K60, HDCP 2.3

Share Two Monitors, Keyboard & Mouse Between Two PCs with USB 3.0, Hotkey Switching & IR Remote

MPN: KVM-2X1DUAL8K

Table of Contents

1. Introduction	1
2. Features	1
3. Package Contents	1
4. Specifications	2
4. Operation Controls & Functions	2–3
6. Dual-Mode Function	4
7. Hotkey & RS-232 Commands	4
8. Application Example	4
9. Troubleshooting	4

1. Introduction

Switches two monitors, a keyboard, mouse, and USB peripherals between two PCs with a single button press, hotkey, or IR remote — no cable swapping, no desk clutter. The KVM-2X1DUAL8K handles dual HDMI displays simultaneously, so both screens follow your active computer in Mode 1, or each monitor stays locked to a different PC in Mode 2.

Built for dual-monitor power users, traders, developers, and control room operators. Supports 4K60 4:4:4 and 2K@144Hz for gaming and design work, with HDCP 2.3 for protected content. USB 3.0 sharing at 4Gbps connects webcams, printers, and external drives to whichever PC is active. Keyboard and mouse hotkey switching (Scroll Lock or Ctrl sequences), front-panel buttons, IR remote, and RS-232 commands provide four ways to switch. Built-in EDID emulators prevent resolution negotiation delays. Ships with 4× HDMI cables + 2× USB cables — ready to connect out of the box.

2. Features

- HDMI 2.0, HDCP 2.3 compliant — 4K60 4:4:4 8-bit, 2K@60/144Hz for gaming and high-refresh workflows
- Dual-display switching — both monitors + USB switch together (Mode 1) or each monitor locked to a different PC (Mode 2)
- USB 3.0 sharing at 4Gbps — webcams, printers, scanners, and external drives follow the active PC
- HDR, HDR10, HDR10+, Dolby Vision, HLG pass-through on both outputs
- Zero video and audio latency — hardware-level switching with no frame buffering
- Four switching methods: front-panel SELECT, keyboard/mouse hotkeys, IR remote, RS-232 commands
- Auto-switch mode detects source connect/disconnect and switches automatically
- Built-in EDID emulators on all inputs — instant resolution lock, no handshake delays
- 3.4mm analog audio extraction • Ships with 4× HDMI + 2× USB cables, IR remote, and mounting ears

3. Package Contents

- 1× 4K60 2×1 Dual Monitor KVM Switcher
- 1× IR Remote
- 1× 38KHz IR Receiver Cable (1.4m)
- 1× 3-pin Phoenix Connector
- 2× USB 3.0 A-to-B Cable (1.8m)
- 4× HDMI Cable (1.4m)
- 2× Mounting Ears + 4× Screws
- 1× 12V/1A Multinational Locking PSU
- 1× User Manual



Scan for product page
kanexpro.com/item/KVM-2X1DUAL8K

888.974.1368 | support@kanexpro.com | kanexpro.com

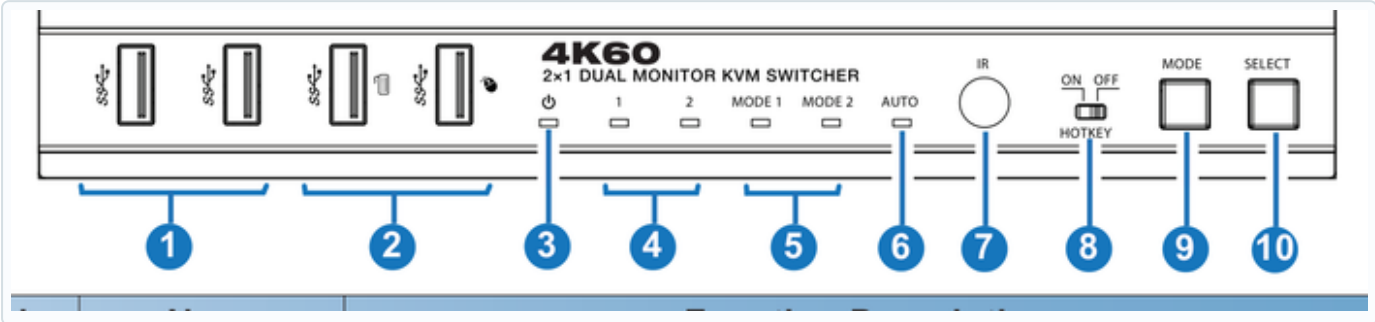
1 / 4

4. Specifications

Technical	
HDMI / HDCP	HDMI 2.0, HDCP 2.3
Video	4K60 4:4:4 8-bit • 2K@144Hz • 18 Gbps
Color Depth	8/10/12-bit
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio	LPCM, DD/DD+, TrueHD, Atmos, DTS-HD MA, DTS:X, DSD
Analog Audio	3.4mm L/R out — PCM 2.0
Latency	Zero (video and audio)
Connection	
Inputs (per PC)	2× HDMI Type A + 1× USB-B Host
Display Outputs	2× HDMI Type A
USB Device	4× USB-A 3.0 (4Gbps) + 2× USB-A hotkey ports
Control	RS-232 (3-pin phoenix) • IR EXT (3.4mm)
Mechanical	
Dimensions	220mm (W) × 100mm (D) × 30mm (H) — 626g
Power	DC 12V/1A • 4.18W typical • CE/FCC/UL
ESD	±8kV air / ±4kV contact

4. Operation Controls & Functions

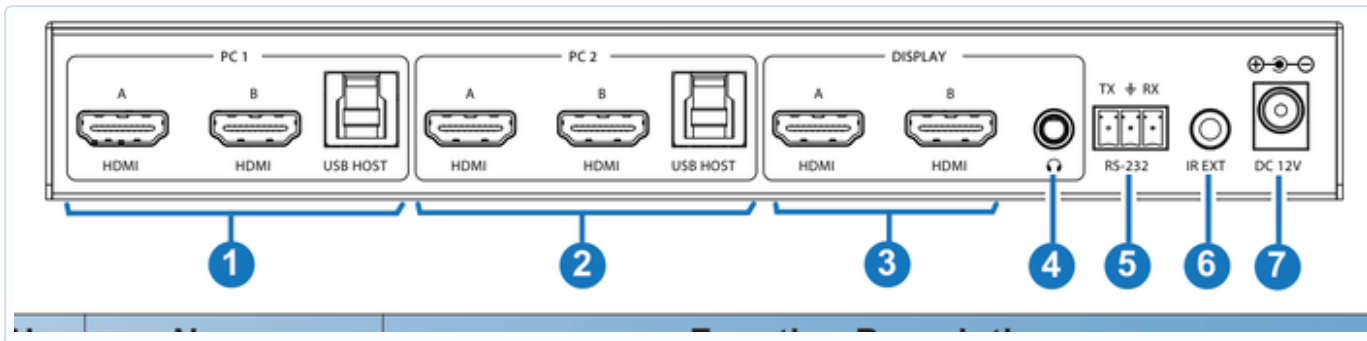
4.1 Front Panel



NO.	NAME	FUNCTION
1	USB 3.0 Ports	USB 3.2 Gen 1 device ports (flash disk, camera, printer).
2	USB 3.0 (Hotkey)	Hotkey OFF: USB 3.2 Gen 1. Hotkey ON: USB 1.1 keyboard/mouse only.
3	Power LED	Green = active. Red = standby.
4	Input LED 1/2	Green = selected input channel.
4	MODE 1/2 LED	Indicates active dual-mode (see Section 6).
6	AUTO LED	Green = auto-switch enabled.
7	IR Window	IR signal receiver (38KHz).
8	HOTKEY Switch	ON/OFF toggle for keyboard/mouse hotkey switching.
9	MODE Button	Switch between Mode 1 and Mode 2.
10	SELECT Button	Cycle between input PC 1 and PC 2.



4.2 Rear Panel



NO.	NAME	FUNCTION
1	PC 1 Ports	USB-B Host + HDMI A + HDMI B — connect to PC 1.
2	PC 2 Ports	USB-B Host + HDMI A + HDMI B — connect to PC 2.
3	DISPLAY HDMI A/B	HDMI output to Monitor A and Monitor B.
4	L/R Audio	3.4mm analog audio output.
4	RS-232	3-pin phoenix connector for serial command control (114200 baud).
6	IR EXT	38KHz IR receiver cable port for concealed installations.
7	DC 12V	12V/1A locking power adapter.

6. Dual-Mode Function

Mode 1 — Single PC Mode

Both Display A and Display B switch to the selected PC. USB devices follow the same PC. Press SELECT or use hotkeys to switch all outputs between PC 1 and PC 2.

Mode 2 — Dual PC Mode

Display A is permanently assigned to PC 1. Display B is permanently assigned to PC 2. Only USB devices (keyboard, mouse, peripherals) switch between PCs. Each monitor always shows its assigned computer.

7. Hotkey & RS-232 Commands

Keyboard Hotkeys (Hotkey switch must be ON)

HOTKEY	FUNCTION
Scroll Lock ×2 → 1	Switch to PC 1
Scroll Lock ×2 → 2	Switch to PC 2
Scroll Lock ×2 → PgUp	Switch to previous input
Scroll Lock ×2 → PgDn	Switch to next input
Scroll Lock ×2 → F12	Enable/disable buzzer

Alternative: use Ctrl×2 instead of Scroll Lock×2.

Mouse Hotkeys

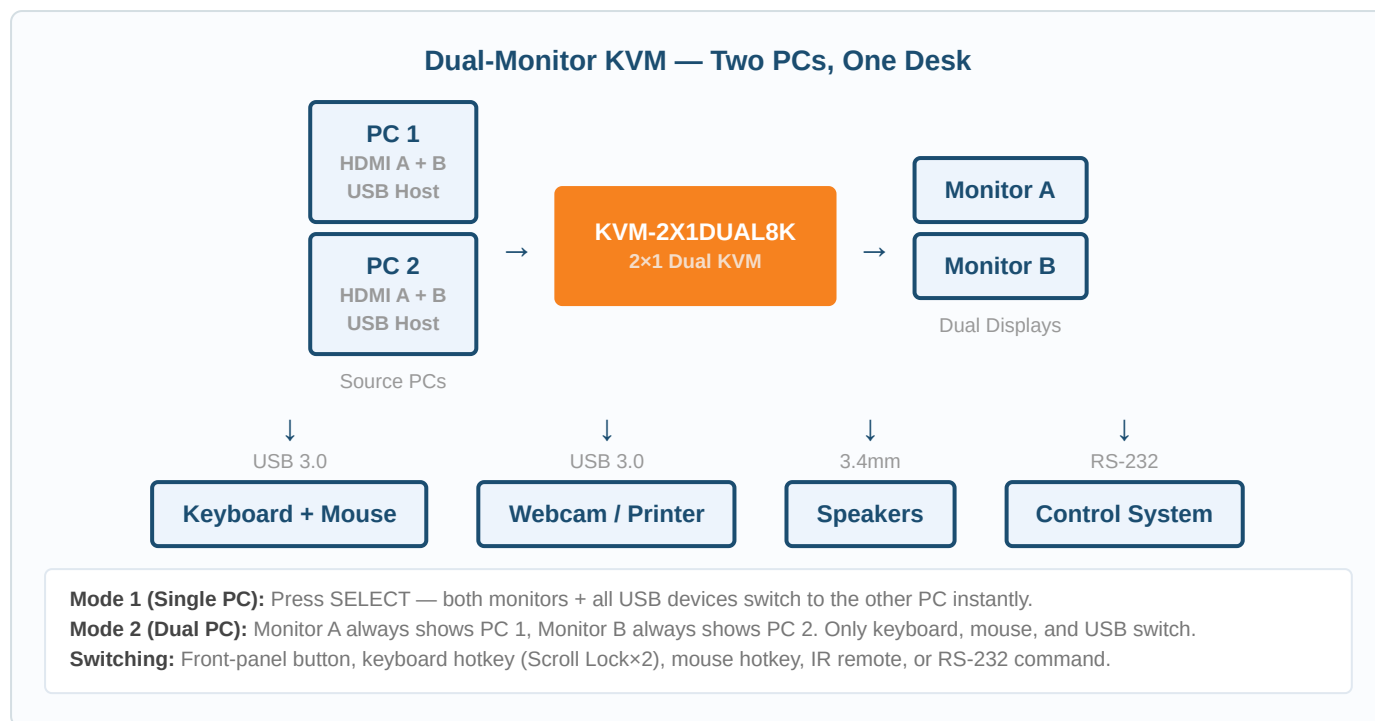
Double-click scroll wheel + Right = next input. Double-click scroll wheel + Left = previous input.

RS-232 ASCII Commands (114200 / 8N1)

COMMAND	FUNCTION
power z!	Power on/off (z=0/1)
s input/usb z!	Switch to PC z (z=1/2)
s auto switch x!	Auto-switch on/off (x=0/1)
s output mode z!	Set Mode 1 or 2 (z=1/2)
s beep z!	Buzzer on/off (z=0/1)
s output x stream z!	Enable/disable output x stream
r status!	Get full device status
reset!	Factory reset



8. Application Example



9. Troubleshooting

Q: Black screen after switching?

A: EDID emulators should prevent this. If it persists: power-cycle the KVM, check HDMI cable connections, and verify the source PC is outputting to both HDMI A and B.

Q: Keyboard/mouse hotkeys not working?

A: Verify the HOTKEY switch on the front panel is set to ON. Connect keyboard and mouse to the two USB 3.0 ports marked “with hotkey mode” (positions 1–2 on the front panel).

Q: USB peripherals slow or not detected?

A: When Hotkey is ON, front USB ports drop to USB 1.1. Move storage devices and webcams to the rear USB 3.0 device ports for full 4Gbps speed.

Q: IR remote not responding?

A: Check line of sight to the IR window. If the unit is concealed, connect the included 38KHz IR receiver cable to the IR EXT port.

Q: Auto-switch keeps changing inputs?

A: Auto-switch triggers on HDMI hotplug events. If a source PC sleeps and wakes frequently, disable auto-switch: `s auto switch 0!`

