

# 8K 2x2 HDMI Switching Splitter with EDID Management

40Gbps, HDCP 2.3, HDR/Dolby Vision, 4K@120Hz, VRR/ALLM, Dual Output

**Switch between two 8K HDMI 2.1 sources and distribute the selected input to two displays simultaneously.** The KanexPro SW-2X28K functions as both a switcher and a splitter in a single compact device, resolving the common challenge of mirroring a source across two displays while retaining multi-source switching. Its 8-position EDID DIP switch ensures reliable handshake across mixed-resolution environments.

Compliant with HDMI 2.1 and HDCP 2.3, the SW-2X28K delivers up to 8K@60Hz 4:2:0 and 4K@120Hz 4:4:4 at 40Gbps. Full HDR pass-through (HDR10, HDR10+, Dolby Vision, HLG). VRR, ALLM, and FVA optimize gaming. Built-in EQ, retiming, and driver. IR remote + front-panel switching. Compact metal enclosure, 6.15W max.

**Surge Protection Recommended** — This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, or lightning strikes.

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## 2. FEATURES

- ✓ HDMI 2.1 and HDCP 2.3 compliant
- ✓ Supports 40Gbps video bandwidth
- ✓ Video resolution up to 8K@60Hz 4:2:0 10-bit, 8K@30Hz 4:4:4 10-bit, 4K@120Hz 4:4:4 10-bit
- ✓ VRR, FVA, and ALLM supported
- ✓ HDR, HDR10, HDR10+, Dolby Vision, and HLG pass-through
- ✓ HDMI audio: LPCM, Dolby Digital/Plus/EX, Dolby TrueHD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
- ✓ 2x2 switch with dual simultaneous output
- ✓ Built-in equalizer, retiming, and driver
- ✓ Advanced EDID management with 8-position DIP switch
- ✓ IR remote and front-panel button switching
- ✓ Compact metal enclosure

## 3. PACKAGE CONTENTS

1x 8K 2x2 HDMI Switching Splitter • 1x IR Remote • 1x 5V/2A Multinational PSU • 1x User Manual



## 4. Specifications

TECHNICAL	
<b>HDMI</b>	HDMI 2.1
<b>HDCP</b>	HDCP 2.3
<b>Bandwidth</b>	40Gbps
<b>Resolution</b>	Up to 8K@60Hz 4:2:0, 8K@30Hz 4:4:4, 4K@120Hz 4:4:4
<b>Color Depth</b>	8/10/12-bit
<b>Color Space</b>	RGB, YCbCr 4:4:4/4:2:2, YUV 4:2:0
<b>Audio</b>	LPCM, Dolby Digital/Plus/EX, Dolby TrueHD, DTS, DTS-HD MA, DSD
<b>ESD</b>	±8kV (air-gap) & ±4kV (contact)

CONNECTION	
<b>Input</b>	2 × HDMI IN [Type A, 19-pin female]
<b>Output</b>	2 × HDMI OUT [Type A, 19-pin female]
<b>Control</b>	1 × SERVICE [Micro USB]

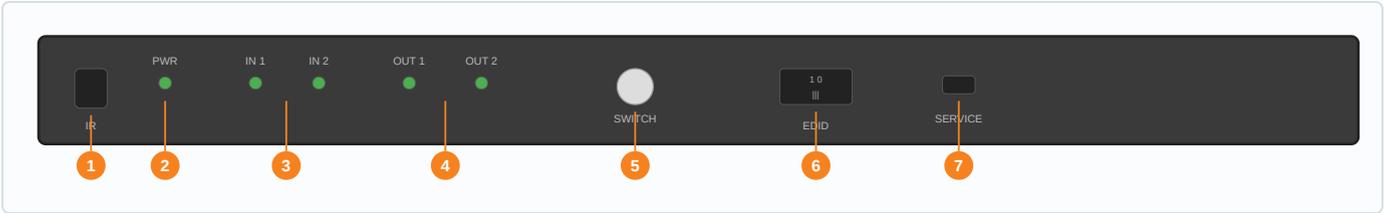
MECHANICAL	
<b>Housing</b>	Metal Enclosure • Black
<b>Dimensions</b>	145mm (W) × 68mm (D) × 17mm (H)
<b>Weight</b>	265g
<b>Power</b>	DC 5V/2A • 6.15W max
<b>Operating Temp</b>	0°C – 40°C
<b>Storage Temp</b>	-20°C – 60°C
<b>Humidity</b>	20–90%% RH (non-condensing)

RECOMMENDED HDMI CABLE	
<b>8K</b>	Ultra HDMI 2.1 — 3m/10ft
<b>4K@60Hz</b>	HDMI 2.0 — 8m/26ft
<b>4K@24Hz</b>	HDMI 1.4 — 12m/39ft
<b>1080p</b>	HDMI 1.4 — 15m/49ft



## 5. Operation Controls and Functions

### FRONT PANEL



No.	Name	Function
1	IR Window	Receives IR remote signals.
2	Power LED	Green = powered on.
3	IN LEDs	Green = active source on IN 1 or IN 2.
4	OUT LEDs	Green = output active on OUT 1 or OUT 2.
5	SWITCH	Press to switch between input sources. Selected input mirrors to both outputs.
6	EDID DIP	3-position DIP with 8 EDID presets (see table below).
7	SERVICE	Micro USB for firmware update.

### EDID DIP SWITCH SETTINGS

DIP	EDID Mode
111	Copy OUT1 display EDID (default)
110	1080p@60Hz, 2CH PCM
101	4K@60Hz 4:4:4, 2CH PCM, HDR
100	4K@60Hz 4:4:4, 5.1CH, HDR
011	4K@60Hz 4:4:4, 7.1CH, HDR
010	8K@60Hz 4:2:0 + 4K@120Hz, 2CH PCM, HDR
001	8K@60Hz 4:2:0 + 4K@120Hz, 5.1CH, HDR
000	8K@60Hz 4:2:0 + 4K@120Hz, 7.1CH, HDR

### REAR PANEL



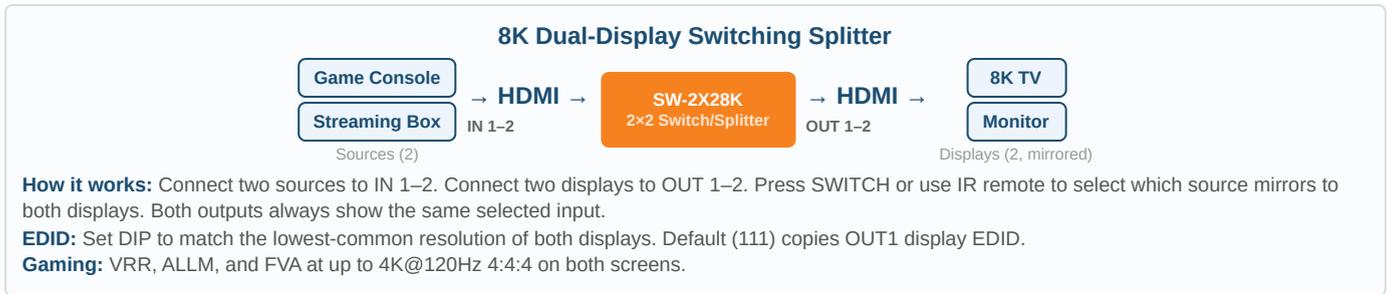
No.	Name	Function
8	IN (1-2)	HDMI input ports. Connect to sources.
9	OUT (1-2)	HDMI output ports. Both mirror selected input.
10	DC 5V	5V/2A power input.

## 6. IR REMOTE

**Power:** Power on or standby. **1/2:** Select HDMI source IN 1 or IN 2. **Cycle:** Cyclically switch between inputs.



## 7. Application Example



### TROUBLESHOOTING

**Q: No signal on one or both displays?**

**A:** 1) Verify Ultra High Speed HDMI cables. 2) Try a different EDID DIP setting. 3) Power-cycle the splitter. 4) Ensure both displays support the source resolution.

**Q: Only one output is working?**

**A:** 1) Check HDMI cable on inactive output. 2) Try swapping outputs. 3) Verify display is powered on and set to correct HDMI input.

**Q: Brief blank screen when switching sources?**

**A:** Normal HDCP renegotiation. Using a fixed EDID DIP setting (not Auto/111) reduces switching time.

