

## 4x4 HDMI Matrix Switcher with Independent 4K Downscaling & HDR Support

The KanexPro SW-HDMX44DS is an HDMI 2.0 compliant 4x4 matrix switcher that routes any of four 18Gbps HDMI sources to any of four displays at up to 4K@60Hz 4:4:4. A per-output independent 4K → 1080p downscaler allows simultaneous mixed-resolution operation. HDR10 and Dolby Vision pass-through preserved on all outputs. Control via front panel buttons, IR remote, or RS-232.

**Surge Protection Recommended** — Use of surge protection is strongly recommended. This product contains sensitive electronic components that may be damaged by electrical surges or lightning strikes.

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### FEATURES

- ✓ Supports resolutions up to 4K@60Hz 4:4:4, HDR10, Dolby Vision, including 1080p 3D
- ✓ Fully compliant with HDMI 2.0 and HDCP 2.2
- ✓ Independent 4K → 1080p downscaler per output — mixed 4K and 1080p displays simultaneously
- ✓ Smart EDID management: 13 factory presets, user-defined EDID, copy-from-output modes
- ✓ Control via front panel buttons, IR remote, and RS-232 (9600 baud, 3-pin terminal block)
- ✓ 10 preset memories (Save/Recall/Clear) for one-touch routing recall
- ✓ Per-output HDMI digital audio enable/disable via RS-232
- ✓ HDCP management per output — bypass or force HDCP 1.4

### PACKAGE CONTENTS

1x SW-HDMX44DS • 4x Round Plastic Feet • 1x RS-232 Cable (3-pin to DB9) • 1x IR Receiver • 1x IR Remote • 1x Power Adapter (12VDC/2A) • 1x User Manual



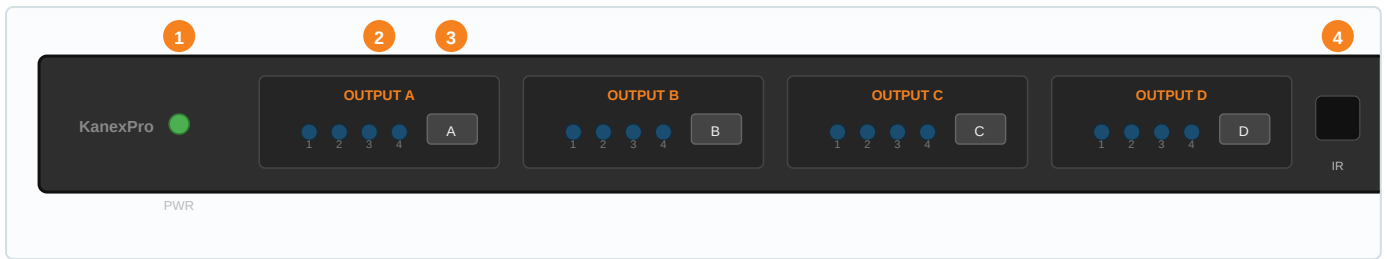
## Specifications

TECHNICAL	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2
Video Bandwidth	18 Gbps
Video Resolution	Up to 4K@60Hz 4:4:4, HDR10, Dolby Vision, 1080p 3D
HDMI Audio	PCM, Dolby Digital, DTS
CONNECTION	
Input	4× HDMI Type A [19-pin female]
Output	4× HDMI Type A [19-pin female]
Control	1× RS-232 [3-pin terminal block] • 1× IR EYE [3.5mm]
MECHANICAL	
Housing	Metal Enclosure, Black
Dimensions	9.61" × 1.00" × 3.94" (244 × 25.5 × 100mm)
Net Weight	1.41 lbs (640g)
Power Supply	DC 12V/2A (AC 100–240V 50/60Hz)
Power Consumption	12W max
Operating Temp	23°F–131°F (–5°C–+55°C)
Storage Temp	–13°F–+158°F (–25°C–+70°C)
Relative Humidity	10–90% RH (non-condensing)
PACKAGE CONTENTS	
1×	SW-HDMX44DS Matrix Switcher
4×	Round Plastic Feet
1×	RS-232 Cable (3-pin to DB9)
1×	IR Receiver
1×	IR Remote
1×	Power Adapter (12VDC/2A)
1×	User Manual



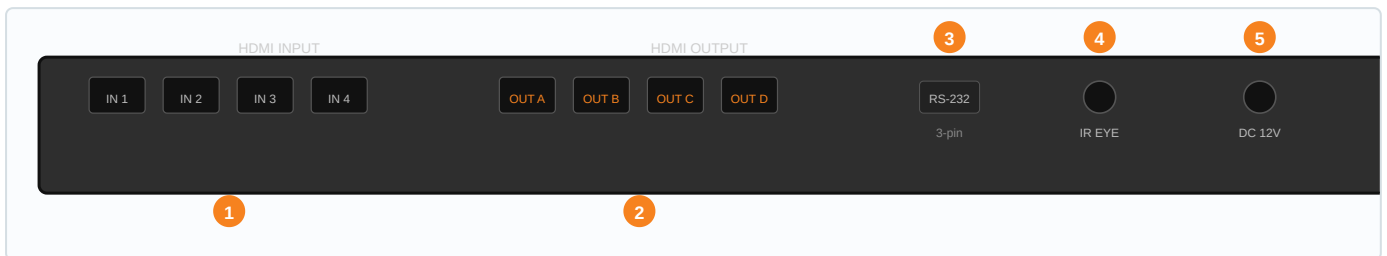
## Operation Controls

### FRONT PANEL



No.	Name	Function Description
1	Power LED	Green when powered on.
2	Source LEDs (1–4)	Shows which input source is selected for each output zone.
3	Zone Select (A–D)	Press to cycle through input sources 1–4 per output zone.
4	IR Window	Accepts IR signals from the included remote.

### REAR PANEL



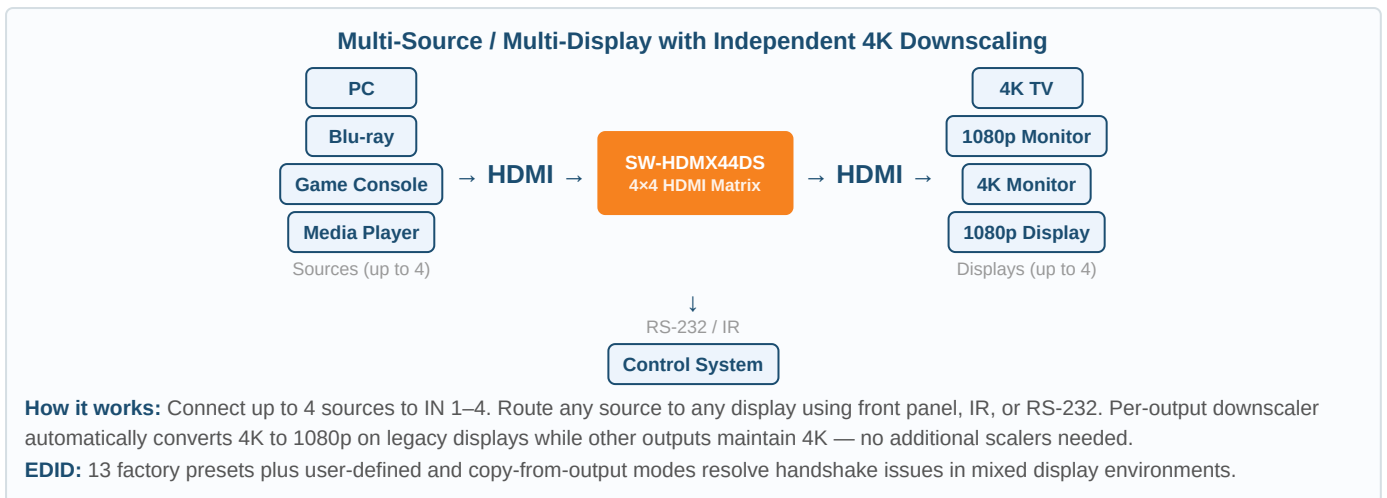
No.	Name	Function Description
1	HDMI IN 1–4	Four HDMI Type A input ports. Connect to source devices such as Blu-ray players, game consoles, or PCs.
2	HDMI OUT A–D	Four HDMI Type A output ports. Connect to display devices such as TVs, monitors, or projectors.
3	RS-232	3-pin terminal block serial control port. Connect to a PC or control system to send RS-232 commands (9600 baud).
4	IR EYE	3.5mm jack. Connect the included IR receiver cable to extend IR control range.
5	DC 12V	DC barrel connector. Connect the included 12V/2A power adapter.

[kanexpro.com/item/SW-HDMX44DS](http://kanexpro.com/item/SW-HDMX44DS)

No.	Name	Function Description
1	HDMI IN 1–4	Connect to HDMI source devices.
2	HDMI OUT A–D	Connect to HDMI display devices.
3	RS-232	3-pin terminal block. 9600 baud serial control.
4	IR EYE	3.5mm. Connect included IR receiver.
5	DC 12V	Connect included 12V/2A power adapter.



## Application Example



## TROUBLESHOOTING

### Q: No video on an output?

A: Enable the 4K → 1080p downscaler for outputs connected to 1080p displays. Verify EDID preset matches the display. Use Premium High Speed HDMI cables.

### Q: RS-232 not responding?

A: Baud: 9600, 8 data bits, 1 stop bit, no parity. Commands must end with carriage return. Verify 3-pin cable wiring.

### Q: How do I save a routing preset?

A: Send RS-232 command **Save[y]** (y=0–9) to store current routing. **Recall[y]** to restore.

