

## 4x2 HDMI 2.0 Matrix Switcher with Optical & Analog Audio Extraction

The KanexPro HDMX42A-18G routes any of four 18Gbps HDMI sources to two independent displays while simultaneously extracting audio via optical Toslink (S/PDIF) and analog L/R (3.5mm) — no external extractors required. Per-output 4K → 1080p downscaling supports mixed display environments. ARC extracts return audio from ARC-enabled TVs. Supports Dolby Vision, HDR10+, and HLG.

**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

- ✓ HDMI 2.0, HDCP 2.2/1.4, and DVI 1.0 compliant — 18Gbps bandwidth
- ✓ 4 HDMI inputs, 2 HDMI outputs — independently routed
- ✓ 4K@60Hz YCbCr 4:4:4 — Dolby Vision, HDR10+, HLG pass-through
- ✓ Audio extraction via optical Toslink (S/PDIF) and analog L/R (3.5mm)
- ✓ HDMI audio: PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, DSD
- ✓ ARC — extracts TV return audio to optical output; mutes analog L/R when active
- ✓ Per-output 4K → 1080p downscaling on both HDMI outputs
- ✓ EDID management: AUTO / COPY / STD (3-position DIP switch)
- ✓ Control via front panel buttons and IR remote

### PACKAGE CONTENTS

1x 4x2 HDMI 2.0 Matrix Switcher • 1x 12V/1A Locking Power Adapter • 2x Mounting Ears • 1x IR Remote • 1x User Manual



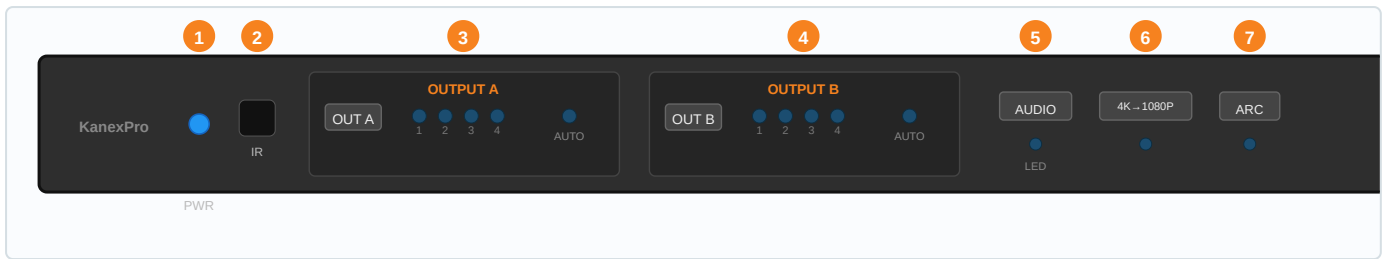
## Specifications

| TECHNICAL         |   |
|-------------------|---|
| HDMI Compliance   | HDMI 2.0  |
| HDCP Compliance   | HDCP 2.2 / HDCP 1.4   |
| Video Bandwidth   | 18 Gbps   |
| Video Resolution  | Up to 4K@60Hz YCbCr 4:4:4; all HDMI 3D formats  |
| Color Space       | RGB • YCbCr 4:4:4 • 4:2:2 • 4:2:0   |
| Color Depth       | 8-bit • 10-bit • 12-bit   |
| HDR Formats       | Dolby Vision • HDR10+ • HLG   |
| HDMI Audio        | PCM 2.0/5.1/7.1, Dolby Digital/Plus/EX, Dolby TrueHD, DTS, DTS-EX, DTS-HD Master Audio, DSD |
| Optical Audio     | PCM 2.0 • Dolby Digital/Plus • DTS  |
| L/R Audio         | PCM 2.0 (mutes when ARC active)   |
| ESD Protection    | ±8kV (Air) • ±4kV (Contact)   |
| CONNECTION        |   |
| Input             | 4× HDMI Type A [19-pin female]  |
| Output            | 2× HDMI Type A • 1× Optical Toslink • 1× L/R Audio [3.5mm]                                  |
| MECHANICAL        |   |
| Housing           | Metal Enclosure, Black  |
| Dimensions        | 9.88" × 0.79" × 4.13" (251 × 20 × 105mm)  |
| Net Weight        | 1.37 lbs (620g)   |
| Power Supply      | AC 100–240V 50/60Hz → DC 12V/1A   |
| Power Consumption | 3.8W max  |
| Operating Temp    | 32°F–104°F (0°C–40°C)   |
| Storage Temp      | –4°F–140°F (–20°C–60°C)   |
| Relative Humidity | 20–90% RH (non-condensing)  |
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| 1×                | 4×2 HDMI 2.0 Matrix Switcher  |
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| 2×                | Mounting Ears   |
| 1×                | IR Remote   |
| 1×                | User Manual   |



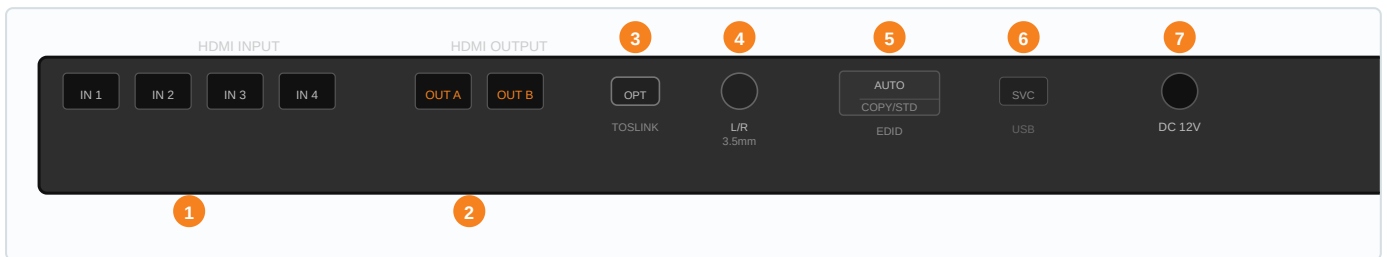
## Operation Controls

### FRONT PANEL



| No. | Name                           | Function Description  |
|-----|--------------------------------|---|
| 1   | <b>Power LED</b>               | Blue LED when connected to power.                             |
| 2   | <b>IR Window</b>               | Accepts IR signals from included remote.                      |
| 3   | <b>OUT A Button &amp; LEDs</b> | Cycle through inputs 1–4 for Output A. Hold 3s for AUTO mode. |
| 4   | <b>OUT B Button &amp; LEDs</b> | Cycle through inputs 1–4 for Output B. Hold 3s for AUTO mode. |
| 5   | <b>AUDIO Button</b>            | Selects audio extraction source for optical/L/R outputs.      |
| 6   | <b>4K – 1080P Button</b>       | Enables per-output downscaling. LED illuminates when active.  |
| 7   | <b>ARC Button</b>              | Toggles ARC on/off. Analog L/R mutes when ARC active.         |

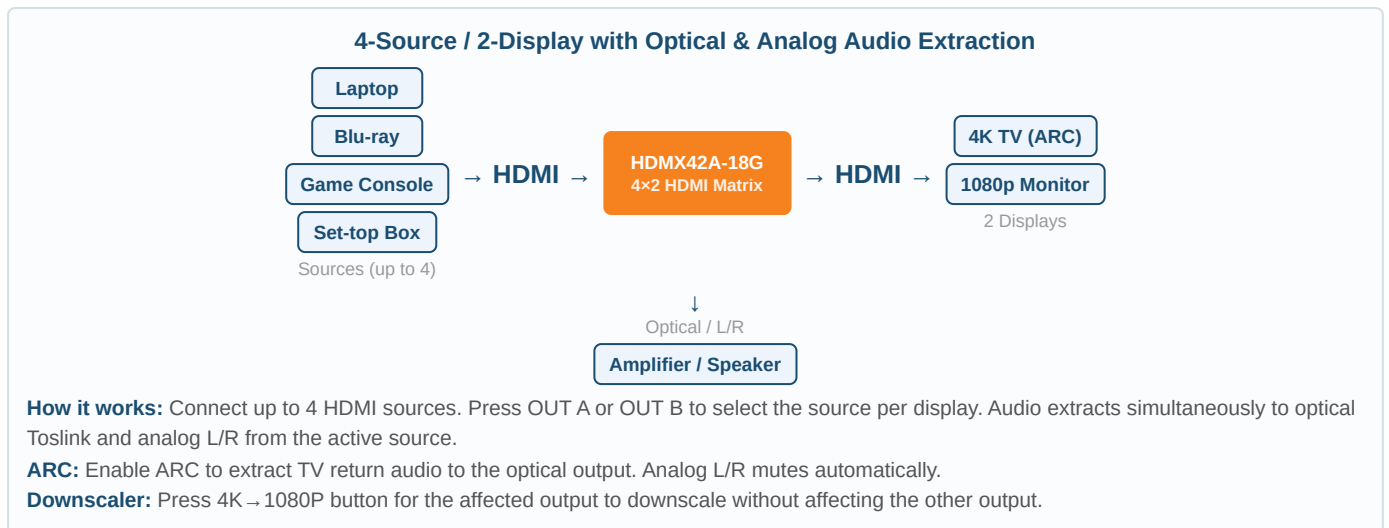
### REAR PANEL



| No. | Name                | Function Description                               |
|-----|---------------------|--|
| 1   | <b>HDMI IN 1–4</b>  | Connect to HDMI source devices.                    |
| 2   | <b>HDMI OUT A–B</b> | Connect to HDMI display devices.                   |
| 3   | <b>OPTICAL</b>      | S/PDIF Toslink. Extracted or ARC audio output.     |
| 4   | <b>L/R (3.5mm)</b>  | Analog stereo (PCM 2.0). Mutes when ARC is active. |
| 5   | <b>EDID Switch</b>  | AUTO / COPY / STD — 3-position DIP switch.         |
| 6   | <b>SERVICE</b>      | Firmware update port (USB).                        |
| 7   | <b>DC 12V</b>       | Connect included 12V/1A locking adapter.           |



## Application Example



## TROUBLESHOOTING

**Q: No audio from optical/analog output?**

A: Press the AUDIO button to select which output (A or B) feeds the extraction ports.

**Q: ARC not working?**

A: Enable ARC button on front panel. Connect HDMI Out to the ARC port on the TV. Enable ARC/CEC in TV settings.

**Q: 4K source not displaying on 1080p TV?**

A: Press the 4K → 1080P button for the affected output. LED illuminates to confirm downscaler is active.

