

HD4430K

4K30 4×8 HDMI / HDBaseT Matrix Switcher

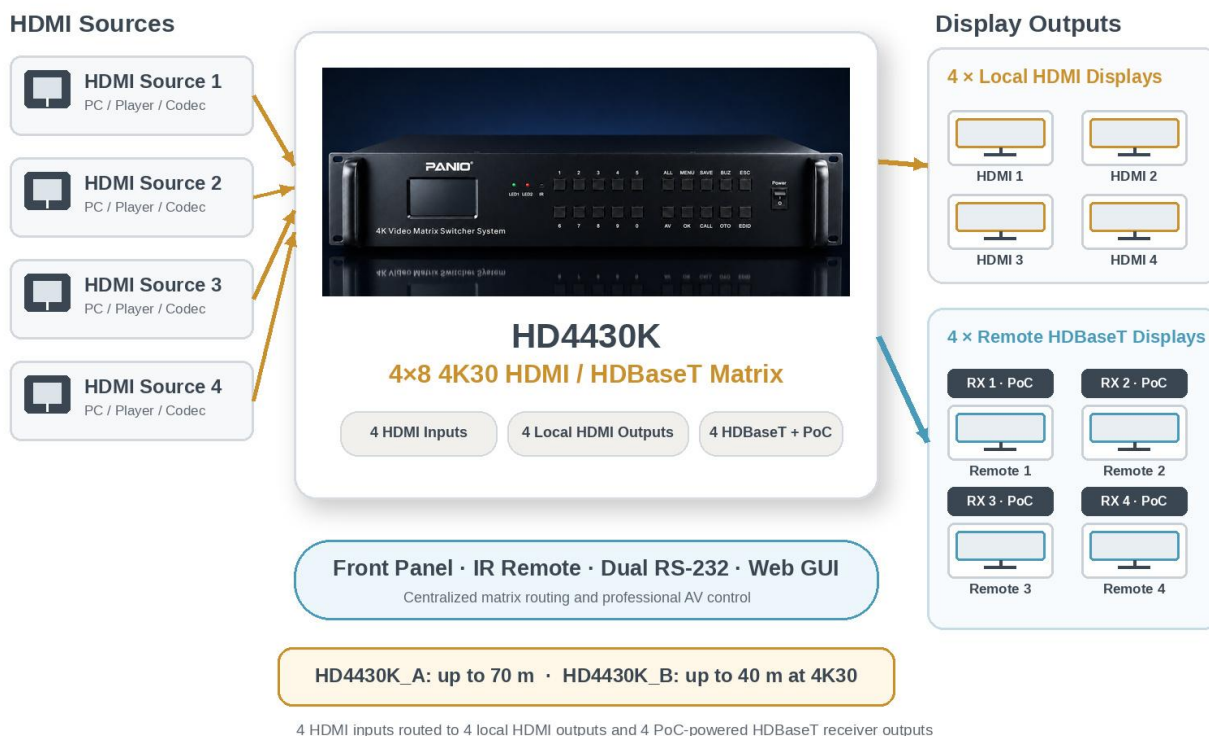
4K30, 4 HDMI + 4 HDBaseT Outputs, 40 / 70 m, PoC, EDID, RS-232 + Web GUI

Product Overview

PANIO HD4430K is a professional 4-input, 8-output HDMI matrix switcher for centralized multi-display AV systems. Four HDMI inputs can be routed to four local HDMI outputs and four long-distance HDBaseT outputs, supporting mixed near-end and remote display deployment.

The system supports video up to 4K@30Hz with HDMI 1.4b and HDCP 1.4. HD4430K_A extends 4K30 up to 70 meters, while HD4430K_B supports up to 40 meters. PoC powers compatible receivers through the transmission cable, with EDID, dual RS-232, IR, and Web GUI control.

Diagram



Product Features

- **4×8 Matrix Architecture:** Four HDMI inputs route to four local HDMI outputs and four remote HDBaseT outputs.
- **4K30 Ultra HD Video:** Supports resolutions up to 3840×2160@30Hz for professional display systems.
- **Four Local HDMI Outputs:** Connect nearby displays directly without additional receiver hardware.
- **Four HDBaseT Output Channels:** Extend four independently routed outputs to compatible remote receivers.
- **40 m / 70 m Versions:** HD4430K_B supports up to 40 m, while HD4430K_A supports up to 70 m at 4K30.
- **PoC Receiver Power:** Compatible receivers are powered through the HDBaseT cable with no local adapter.
- **Uncompressed Zero-Latency Transmission:** Preserves HDMI video and audio quality across the remote links.
- **EDID Management:** Improves compatibility among sources, local displays, and remote displays.
- **Flexible System Control:** Operates from the front panel, IR remote, dual RS-232, or browser-based Web GUI.
- **Universal AC Power:** AC 100-240V, 50/60Hz input supports professional installations in multiple regions.

Specification

Parameter	Specification
Model	HD4430K_A / HD4430K_B (matrix + 4 receivers)
Product Type	4K30 4-input, 8-output HDMI / HDBaseT matrix switcher
Input / Output	4 × HDMI inputs; 4 × local HDMI outputs; 4 × HDBaseT RJ45 outputs
Video / Standards	Up to 4K@30Hz; HDMI 1.4b; HDCP 1.4
Transmission Distance	HD4430K_A: up to 70 m; HD4430K_B: up to 40 m at 4K30
Transmission Method	Uncompressed, zero-latency HDMI audio/video over HDBaseT
Receiver Power	PoC from matrix; separate receiver power adapters are not required
Control / EDID	Front panel, IR remote, dual RS-232, Web GUI, and EDID management
HDMI Cable Limit	Combined HDMI input and output cable length should be within 10 m
Power	AC 100-240V, 50/60Hz

Interface & System Architecture

Interface	Description
HDMI Inputs	4 × HDMI source inputs
Local HDMI Outputs	4 × HDMI outputs for nearby displays
HDBaseT Outputs	4 × RJ45 outputs for four compatible receivers
Receiver Output / Power	HDMI output at each receiver; receiver powered by PoC
Control Interfaces	Front-panel buttons, IR remote, 2 × RS-232, and Web GUI
System Capacity	Four sources routed to four local and four remote output paths

Distribution & Extension Functions

- **Flexible 4×8 Routing:** Any of four HDMI sources can be assigned to local HDMI and remote HDBaseT output paths.
- **Integrated Long-Distance Extension:** Select the 70 m A version or 40 m B version and connect each HDBaseT port to a compatible receiver.

Mechanical & Environmental

Parameter	Specification
Matrix Dimensions	482 × 405 × 138 mm (L × W × H)
Receiver Dimensions	152 × 100 × 27 mm
Power Input	AC 100-240V, 50/60Hz
HDMI Cable Limit	Combined HDMI input and output cable length within 10 m
HDBaseT Cabling	Qualified CAT6 or better cable with professional termination
Brand / Manufacturing	PANIO Taiwan brand; manufactured in Taiwan

Package Contents

- **HD4430K Matrix Switcher:** 1 unit
- **HDBaseT Receivers:** 4 units
- **AC Power Cord:** 1 unit
- **IR Remote Controller:** 1 unit
- **User Manual QR Code:** 1 card
- **Receiver Power:** Supplied through PoC; separate receiver adapters are not required
- **Remote Battery:** Not included

Applicable Scenarios

- **Control & Command Rooms:** Route computers and monitoring sources to local operator displays and remote status screens.
- **Conference & Meeting Spaces:** Switch presentation and conferencing sources between nearby and remote displays.
- **Education & Training:** Distribute instructor PCs and media players across classrooms or overflow areas.
- **Commercial Displays & Showrooms:** Manage multiple sources across local screens and remote signage displays.
- **Security Monitoring & AV Integration:** Combine matrix routing, long-distance extension, and centralized control.

Installation Recommendations

- Use certified HDMI cables and keep the combined input and output HDMI cable length within 10 meters.
- Use qualified CAT6 or better cable with professional termination for HDBaseT transmission.
- Actual 40 m or 70 m performance depends on cable quality, routing, termination, and electromagnetic conditions.
- Use the compatible receivers supplied for the selected HD4430K version.
- Verify EDID and source resolution when local and remote displays use different specifications.

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