

## 4K 60Hz 8-in 16-out signal matrix switch + extension all-in-one machine

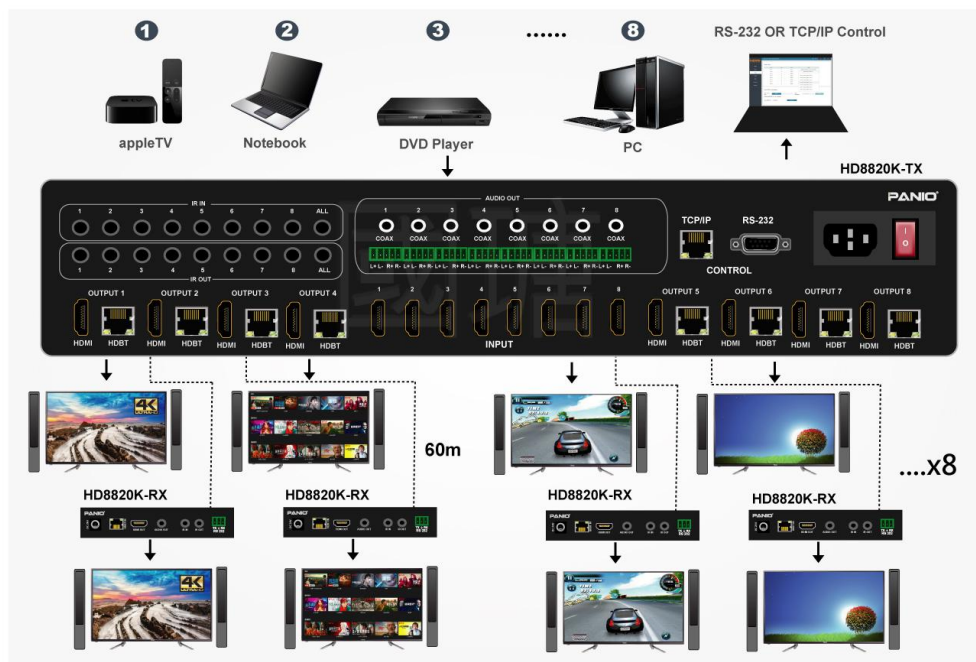
Model:HD8820K

### Features

- Supports 8 x HDMI inputs.
- Supports 8 x HDMI near-end outputs.
- Supports 8 x RJ-45 Ethernet ports for remote output.
- 4K video and audio signals are transmitted to the receiver through the network cable to output HDMI signals. (HD8820K-R)
- The receiver outputs HDMI/ bidirectional IR/ RS-232/ 3.5mm audio signal.
- Support 4K @60Hz resolution, and YUV4:4:4, 18G, HDR10+, HLG, Dolby vision.
- Support HDMI2.0b, HDCP 2.2 / 1.4.
- Signal transmission up to 150 meters at 1080P resolution.
- Signal transmission up to 120 meters in 4K resolution.
- Each output supports down-conversion from 4K to 1080P, which solves the problem that 1080P cannot be displayed when 4K and 1080P are displayed simultaneously.
- Built-in COAX coaxial + L/R interface audio independent output port.
- Built-in 21 EDID settings, 2 user-defined EDID modes and 8 copy EDID modes.
- Support two-way infrared remote control.
- Supports HDR, HDR10, HDR10+, Dolby Vision and HLG formats.
- Support HDMI CEC function (Consumer Electronics Control).
- Support POC unilateral power supply.
- 1U rack-mounted design, the front panel adopts a high-standard OLED display screen.
- Control methods: push button, remote control, RS-232, and Web GUI.

### Diagram

## Diagram



## Specification

Model Name	HD8820K
Input	8 x HDMI input, 8 x IR input, 1 x RS-232 input, 1 x RS-232 input, 1 x TCP/IP(RJ-45)
Output	8 x HDMI output, 8 x HDBT RJ-45(output to receiver: HD8820KR), 8 x COAX output, 8 x L/R(5-pin Phoenix connector) output, 8 x IR output
Receiver Interface	1 x HDMI output, 1 x HDBT RJ-45 input, 1 x 3.5mm audio output, 1 x IR output, 1 x IR input, 1 x RS-232 [3-pin Phoenix connector]
Protocol standard	HDMI 2.0b, HDCP 2.2/ 1.x
Control method	Button, remote control, RS-232, and Web GUI.
HDMI Audio Format	LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby TrueHD, Dolby Digital Plus(DD+), DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X
Coaxial audio format	PCM 2.0, Dolby Digital / Plus, DTS 2.0/5.1 L/R audio format PCM 2.0
HDR format	HDR10, HDR10+, Dolby Vision, HLG
L/R audio format	PCM 2.0
Support resolution	4K@ 60hz, YUV4:4:4
Transmission distance	150 meters at 1080P @60Hz, 120 meters at 4K
Audio format	DTS-HD / Dolby-trueHD / LPCM7.1 / DTS/Dolby-AC3 / DSD
Color Space	RGB 4:4:4, YCbCr 4:4:4/ 4:2:2/ 4:2:0
Color depth	8-bit, 10-bit, 12-bit (1080p 60Hz) 8-bit (4K2K@60Hz YUV4:4:4) 8-bit, 10-bit, 12-bit (4K2K@60Hz YCbCr 4:2:2/4:2:0)
Bandwidth	18Gbps
ESD Protection	Human body model—±8kV (Air-gap discharge) & ±4kV (Contact discharge)
The length of the connecting cable	can be connected to a 28AWG HDMI2.0 cable with a maximum length of 5 meters. If the length exceeds this length, it is recommended to use an extender to extend the distance.
Power supply	AC 100~240V 50/60Hz
Dimensions	Matrix switcher 440 × 374 × 88.6mm ( LxWxH ), receiver 140 × 65 × 18mm ( LxWxH )
Weight	Matrix switcher 6.54Kg, receiver 155g

## Package contents

- 1 X HD8820K Matrix Switcher
- 8 X HD8820K-R receivers
- 1 X Power Cord
- 1 X remote control (battery not provided)
- 1 X User manual