

PANIO KH7200

4K@60Hz AV-over-IP System with Video Wall & KVM Workstation

Product Overview

The KH7200 represents a state-of-the-art 4K60 HDMI AV-over-IP system, ingeniously integrating encoder and decoder capabilities within a single unit. This dual functionality allows each device to seamlessly switch between acting as an encoder or a decoder, thereby drastically simplifying deployment procedures.

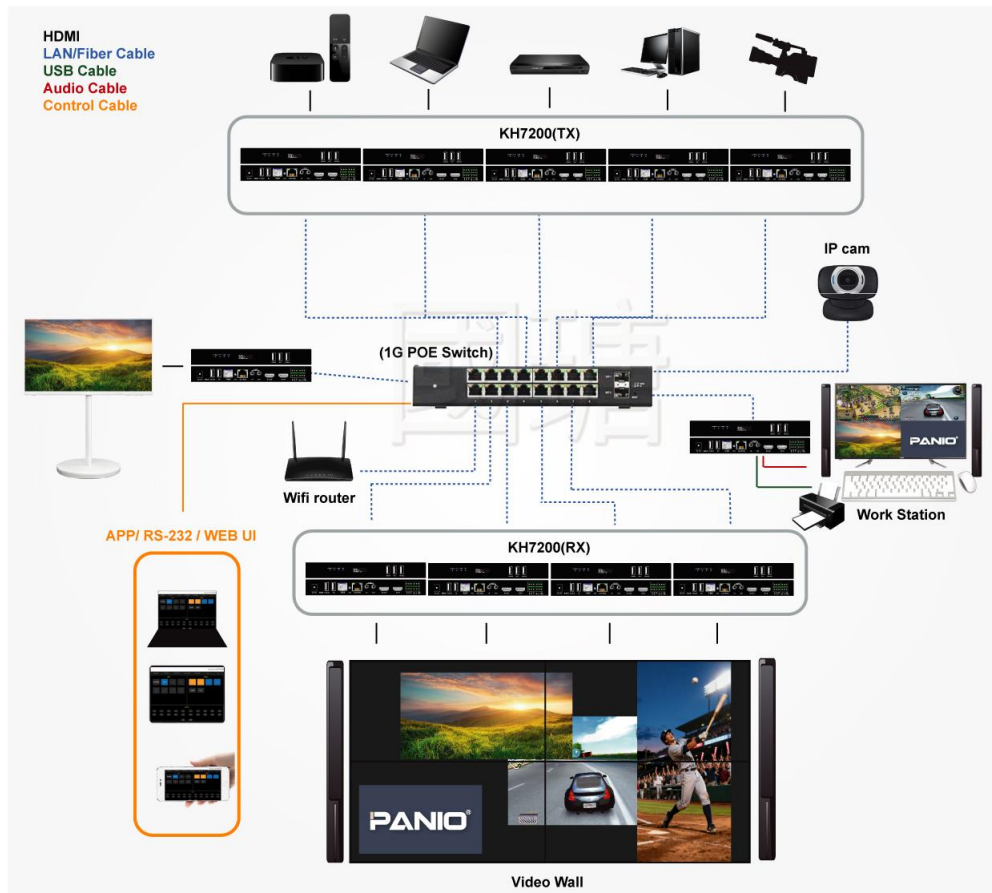
Boasting support for both CAT6 (with a transmission distance of up to 150 meters) and fiber optic (extending up to 2 kilometers) transmission, along with integrated PoE or DC power options, this system is perfectly suited for high-performance environments that demand advanced video wall processing and KVM functionality.

Its versatile applications span across command centers, conference rooms, smart campuses, smart parks, and various other similar settings.

Key Features

- A single device integrating both encoder and decoder
- 4K60 AV-over-IP with distributed input and output
- Server-free architecture for enhanced system reliability
- Seamless switching accompanied by ultra-low latency (80–120ms)
- Flexible video wall control: up to 16-window layout per screen
- Resolution up/down scaling to ensure display compatibility
- KVM functionality: enabling control of remote PCs via keyboard and mouse
- Customizable web UI for intuitive operation and control
- Source and output preview capabilities
- Screen rotation options: 90°, 180°, 270°
- Audio embedding and de-embedding through 3.5mm jacks
- Comprehensive I/O control: RS232, RS485, Relay, IR, GPIO
- On-Screen Display (OSD), scrolling text, and other signage functions

Diagram



Technical Specifications

Specification	Description
Video Input	1× HDMI (with 1× HDMI loop output)
Video Output	1× HDMI
Max Input Resolution	Up to 3840×2160 @60Hz
Max Output Resolution	Up to 3840×2160 @60Hz
Audio Input	1× 3.5mm LINE-IN
Audio Output	1× 3.5mm LINE-OUT

Latency	80ms – 120ms
Control Interfaces	RS232, RS485, IR, Relay, I/O
Network Ports	1× RJ45 (LAN), 1× Fiber
PoE Support	Yes (Standard PoE)
USB Ports	3× USB-A (2.0), 1× USB-A (3.0)
Power Consumption	< 10W
Dimensions	210mm × 113mm × 30mm
Weight	0.7 kg

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