

PD8404

4×4 Audiovisual Matrix Switcher



Description

The PD8404 4×4 Audiovisual Matrix Switcher is a high-performance professional audio and video signal switching device designed for long-distance and multi-channel AV signal transmission requirements. Featuring a pure hardware architecture, it ensures reliable 24/7 operation and is widely used in broadcast and television systems, multimedia conference rooms, educational facilities, command and control centers, and other management environments. Equipped with RS232 and Ethernet communication interfaces, it enables convenient integration with control systems and upper-level management software.

Features

- 4 × HDMI signal inputs, 4 × stereo audio inputs, 4 × HDMI outputs, and 4 × stereo audio outputs with cross-point switching capability.
- Handles up to 1080P HD video, 3D content, and 4K@30Hz ultra-high-definition input signals.
- Features automatic input equalization to compensate for signal loss caused by long-distance transmission or low-quality cables.
- Delivers transmission distances of up to 25 m for input and 20 m for output under ideal conditions.
- Compatible with Blu-ray DVD 24/50/60fs, HD-DVD, and xvYCC video formats.
- Compatible with various audio formats, including DTS-HD, Dolby TrueHD, LPCM 7.1, DTS, Dolby AC-3, and DSD.
- Complies with HDMI 1.4a and DVI 1.0 standards, featuring deep color support and data rates up to 13.5 Gbps.
- Adopts full SMD manufacturing technology with built-in ESD protection for improved reliability.
- Retains the latest switching status after power interruption with scene memory protection.
- Equipped with IR remote control and dual RS-232 communication interfaces, with optional TCP/IP network connectivity and mobile/tablet APP control.
- Enables online firmware upgrades for convenient maintenance and system updates.
- Adopts a pure hardware FPGA architecture with modular design and proprietary Video-SerDes technology, delivering fully digital switching with seamless transitions, no black screen, and no freezing.

- Enables flexible M×N video wall configurations with simplified mapping management, supporting simultaneous control of 5 or more video walls, with windowing, roaming, and drag-and-drop switching.
- Offers an optional 4.0-inch wired touchscreen module for intuitive matrix channel switching.
- Provides an optional voice interaction module for quick scene recall through voice commands.
- Stores and recalls up to 1,000 preset scenes through client software.
- Allows drag-and-drop assignment of video sources to display terminals via client software.
- Features matrix polling, pre-switching, and global zone management for efficient operation and flexible control.
- Provides secure multi-user access with password authentication.
- Features a programmable integrated control interface with customizable GUI design for centralized management of AV switching, video walls, lighting, curtains, power supplies, multimedia playback, and other connected devices.

Specifications

Model	PD8404
Number of Input Ports	4
Numver of Output Ports	4
Interface Bandwidth	6.5 Gbps
Serial Control Interface	RS-232, 9-pin Female D-sub Connector (Pin 2: TX, Pin 3: RX, Pin 5: GND)
Baud Rate & Protocol	Baud Rate: 9600; Data Bits: 8; Stop Bits: 1; Parity: None
Power Supply	100VAC–240VAC, 50/60Hz, International Auto-Ranging Power Supply
Storage & Operating Temperature	0°C to +50°C
Storage & Operating Humidity	20% to 70%
Product Dimensions (L×W×H)	440×240×44 mm
Product Weight	2kg