D6147

8×8 4K HD Seamless Hybrid Matrix System

D6151-R60   4-Channel 4K 60 HDMI Input Card   D6152-C60   4-Channel 4K 60 HDMI Output Card
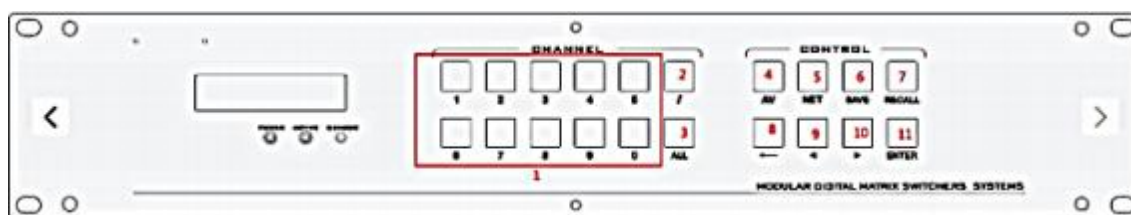

Description

The Hybrid Matrix System is a highly flexible solution for video wall splicing and seamless matrix switching. Featuring a high-performance hardware design, it perfectly supports seamless switching and processing of various high-definition digital and analog signals. It also supports bidirectional RS-232 and IR signal routing and switching. The system can divide a complete image signal into multiple outputs and distribute them to multiple display units, forming a large screen to present dynamic visuals. It provides an all-in-one solution for the switching and distribution of multiple video and control signals across different industries. This system is widely applicable in broadcast and television engineering, multimedia conference rooms, large-screen display projects, distance learning, intelligent transportation control centers, command and control centers, and more.

Features

- Modular matrix host with configurable input/output signal cards.
- Supports a wide range of input/output cards, including HDMI, DVI, VGA, SDI, HDBaseT, and fiber optic interfaces, enhancing system flexibility. The DVI input card is compatible with CVBS, YUV, and S-Video signals, while the VGA input/output cards are also compatible with CVBS, YUV, and S-Video.
- By customizing and combining identical or different input/output cards, the system can be configured into various matrix types such as HDMI matrix, DVI matrix, VGA matrix, YUV matrix, and Video matrix.

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- Supports maximum resolution up to 4K×2K.
- Supports seamless switching with no black screen during signal transitions.
- Front panel supports button control and LCD status display, allowing direct viewing and modification of IP information.
- Offers flexible control methods with one RS-232 port, one RS-485 port, and one LAN port; supports external control panel interface.
- Supports synchronous switching of audio and video signals with fast response.
- Supports selectable input of analog audio or HDMI-embedded audio.
- Supports simultaneous output of analog audio and HDMI-embedded audio.
- HDBaseT input/output signals support bidirectional RS-232 and IR signal transmission, with options for signal-following or independent switching modes; also supports PoC (Power over Cable) for external power supply.
- Features power-off memory to avoid reconfiguration after power outages.
- Equipped with intelligent temperature control to manage internal fan operation.
- Allows storage of multiple preset switching commands in the system, enabling one-touch recall.
- Supports optional KVM functionality, enabling remote control of server room computers with a single keyboard and mouse.

Front / Rear Panel

The front panel buttons are shown in the diagram below. Their functions are described as follows:

1. Number Keys (0–9): Press to display the corresponding number on the screen.
2. "/" Key: Press to display "/".
3. "ALL" Key: Press to display "ALL", indicating that all output ports are selected.
4. "AV" Key: Press once to display "V"; press again to display "M".
5. "NET" Key: Communication key. Press to display information such as IP address and port.
6. "SAVE" Key: Save key. Used for storing presets. Press to display "SAVE".
7. "RECALL" Key: Recall key. Used for loading presets. Press to display "RECALL".
8. "←" Key: Backspace key.
9. "◄ " Key: Left shift key. Moves the cursor one position to the left.
10. "▶ " Key: Right shift key.   Moves the cursor one position to the right.
11. "ENTER" Key: Confirm key. Press to display ".".