Hirender 4U Pro /4U Pro plus Media Server

Product Description

Hirender S3 Multimedia Server supports various functions such as online frame synchronization, ultra-high-resolution point-to-point display, multi-screen splicing, irregular screen playback control, projection mapping, device control, and program arrangement. The server configuration can be upgraded and expanded according to actual needs, providing stable and efficient solutions for large-scale events, performances, conferences, and other applications.

Additionally, the Hirender multimedia server supports multiple protocols for input and output control, including MIDI, DMX, network, and serial port, enabling connection to various devices and consoles. It also supports remote control and various screen capture methods.

Peripheral Accessories

- Flight Case: Customized flight case by Hirender
- Encryption Lock: Hirender S3 encryption lock
- Adapter Cables: DP to HDMI adapters x4
- Power Cables: NEUTRIK power cables
- User Manuals: Certificate of Conformity, User Manual, Maintenance Manual

Technical Specifications

Video Output:	1×DisplayPort 1.2 integrated graphics	4×DisplayPort 1.4 discrete graphics

Video Input:	4×HDMI

Audio Interfaces	XLR stereo × 1 (Dual-channel)	3.5mm audio interfaces × 5

USB Ports	6×USB 3.0 (2 in the front, 4 in the back)

Network Interface	1×RJ45 Gigabit Ethernet port

Mounting:	4U rack mount

Unit Dimensions:	W	H	D
	482mm	178mm	600mm
	18.98"	7"	23.62"

Server Weight:	18kg

Environmental Tolerance:	Temperature	Humidity	Altitude
	5-35℃	5%-95%	0-8850 feet
	(40°-95°F)	(non-condensing)	(0-2700 meters)

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Software Features

- Ultra-High Resolution

Hirender S3 supports up to 6 channels of 4K point-to-point high-definition output, with the ability to infinitely cascade multiple servers.

- Online Frame Synchronization (requires installation of a synchronization card)

Supports NVIDIA Quadro SYNC synchronization card, enabling frame synchronization of server output, ensuring stable and tear-free splicing of images.

- LED Large Screen Splicing

Supports flexible screen slicing, enabling quick completion of operations such as image segmentation, scaling, rotation, and splicing, efficiently addressing issues related to multi-screen splicing and irregular screen playback control.

- Projection Fusion

Supports convenient projection grid adjustment and fusion with adjustment functions, enabling quick and accurate adjustment of grid and fusion for various projection surfaces.

- Universal Decoder

Supports nearly all common mainstream media encoding formats, allowing quick transcoding of media materials, with support for HVC encoding.

HVC Encoding Format: HVC (Hirender Video Coding) is a proprietary video encoding format independently developed by Lianjing Technology. It boasts advantages such as high resolution, high image quality, low system resource consumption, and high compression ratio. It utilizes NVIDIA GPU hardware decoding, with a maximum resolution limit of 16K*16K for single video hardware decoding. Hardware decoding does not consume CPU resources, resulting in smoother video playback.

- Window Mode

Supports simple and user-friendly window mode, with support for adding an unlimited number of windows. Control instructions and program effects can be added to programs, facilitating quick editing of program flows.

- Timeline Mode

Supports precise editing mode based on timelines, allowing insertion of various media, control instructions, and time-varying material effects at precise time points.

- Light Library Mode

The light library mode can be connected to various lighting control consoles, allowing real-time adjustment of window properties such as position, size, volume, and brightness through the console.

- Primary and Backup Online

The primary and backup servers are synchronized in real-time. When the signal is disconnected, automatic switching can be quickly performed to ensure the smooth progress of activities.

- Timecode Synchronization

Supports the reception and transmission of MTC and LTC timecode, enabling synchronization control of music, machinery, lighting, etc.
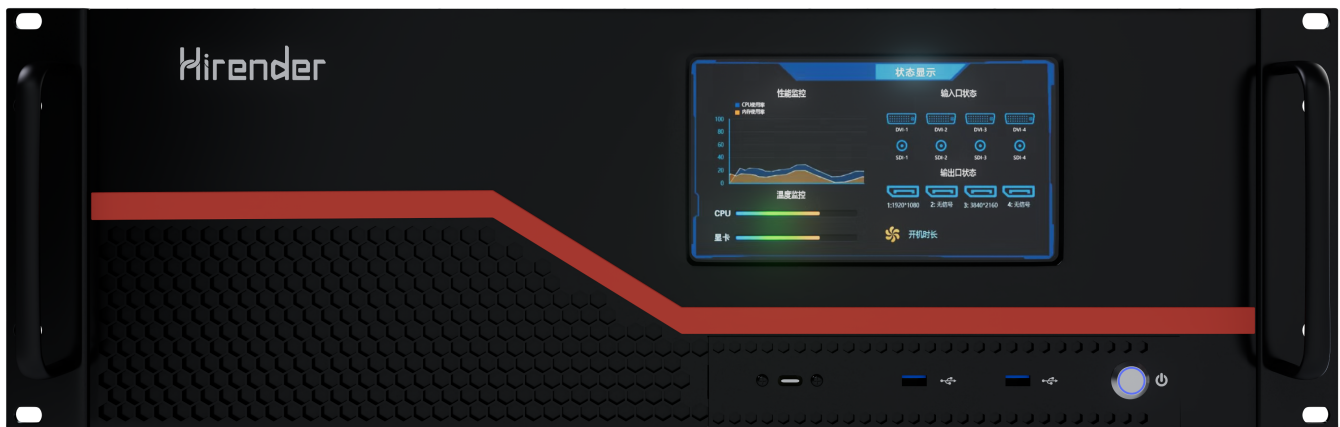
- Input/Output Control

Supports input and output control of various protocol signals such as MIDI, DMX, network, and serial ports.

- Remote Control

Supports the Hirender Touch mobile app, allowing remote control of servers and peripheral devices.

Hirender 4U Pro /4U Pro plus Media Server

- Power Button
Power on and off the server

- Touch Screen
Real-time monitoring of CPU and memory usage
Real-time monitoring of CPU and GPU temperature
Real-time monitoring of GPU output port status
Real-time monitoring of runtime information
Real-time monitoring of capture card input status
One-click activation of S3 display terminal
One-click clearing of server cache
One-click mode change for encryption lock
One-click screen lock
Scheduled server power off

- USB Ports
2×USB 3.0

Connect mice, keyboards, and various peripherals, import and export files.

Hardware Specifications

Processor: i7-13700k x 1 (standard configuration)

i9-13900k x 1 (high configuration)

Motherboard: High-performance, high-specification motherboard

Memory: 16GB DDR4/DDR5 high-frequency memory (standard configuration)

32GB DDR4/DDR5 high-frequency memory (high configuration)

Hard Drive: 1TB M.2 high-speed solid-state drive (standard configuration, expandable)

2TB M.2 high-speed solid-state drive (high configuration, expandable)

Power Supply: 650W high-quality power supply

Graphics Card: NVIDIA RTX 6GB professional graphics card (standard configuration)

NVIDIA RTX 16GB professional graphics card (high configuration)

Capture Card: Customized capture card by Hirender

Audio: 3.5mm interface 7.1-channel, XLR interface, built-in audio isolation

Chassis: Customized chassis by Hirender

Flight Case: Customized aviation box by Hirender

The configurations above are default settings for the server, which can be customized and upgraded according to actual requirements.

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1.Power Button
2.Power Interface
3.USB Interfaces
4.DP Interface
5.Network Interface
6.Audio Input Interface
7.Cannon Audio Interface
8.3.5mm Audio Interface
9.DP Interface
10.Video Input Interfaces
11.Reserved Interface

- 1	- 2	- 3
Used to power on and off the server.	Equipped with an anti-loose aviation plug, separating the illumination power from the working power.	4×USB 3.0 Used for connecting peripherals such as keyboard, mouse, and importing/exporting files.
- 4	- 5	- 6
1×DisplayPort 1.2 Used for integrated graphics video signal output. When using the integrated graphics interface, connect the monitor first and then power on.	1×RJ45 Standard equipped with a Gigabit network card.	1×XLR Cannon Interface LTC input.
- 7	- 8	- 9
2×XLR Built-in audio-isolated Cannon interface to isolate noise and eliminate current noise.	5×TRS HD high-quality audio, supporting 7.1 channels.	4×DisplayPort 1.4 Dedicated graphics video signal output interface, with a maximum output resolution of 3840×2160@60Hz or 7680×1080@60Hz for each channel.
- 10	- 11	
4xHDMI Video input interface for capture card, supporting simultaneous capture of 2 channels of 1920×1080 video.	Expandable reserved interface, supporting multiple signal inputs.	