



www.hirender.com



Crafting Next-Gen "Omni-Media Control System" Leadership



Hirender

Unlock the Ultimate Expression of Complex of Lighting and Visual Applications with One System

The Hirender Control System Seamlessly integrates sound, lighting, display, and mechanics via timeline and program management, excelling in ultra-high-resolution video control, LED screens, and projection blending for exhibitions and performances.

As the backbone of the 2022 Beijing Winter Olympics and 2023 Hangzhou Asian Games ceremonies, Hirender ensured precise synchronization of every program element, captivating global audiences with unparalleled audiovisual experience.

Visit for More Details : www.hirender.com

Hirender Omni-Media Control System

01

Software Series

Rental Products | Engineering Solutions | More Products

02

Software Core Features

Dual-Mode Operation | Professional Playback Management
Unlimited Networking & Ultra-High Resolution | Primary-Backup Mode
Multi-Protocol Interface | HVC | Audio Management | Timecode | Copyright Protection

03

Media Servers

4U | 2U | D4D16

04

Application Scenarios

Stage Performances | Exhibition Halls | Conferences & Events

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Rental Products

■ S3 ■ S2
■ S1 ■ P1

S3 Hirender S3

Next-Generation Broadcast Control Flagship Product

The S3 excels in ultra-HD displays, LED splicing, projection blending, and device control. A top choice for global exhibitions, conferences, and performances, it's powerful yet user-friendly, perfect for beginners and experts alike. Take charge of every audiovisual experience! Visit our website to download Hirender and start your omni-media journey.



Hirender S2

Designed for complex LED setups, S2 offers intuitive window control, unlimited program windows, and ultra-high-resolution displays. Its seamless performance and ease of use make it ideal for large-scale projects.



Hirender S1

Tailored for small to medium LED scenes, S1 supports 4K resolution and flexible window modes. Lightweight and laptop-friendly, it's perfect for meetings and performances.



Hirender P1

A professional multimedia player for the performance industry. Compatible with Windows, it delivers instant playback without transcoding, ideal for small to medium events like conferences and exhibitions.

Engineering Solutions

■ C Series

C Series



Developed by enlightV Technology, the C Series is tailored for high-end scenarios like complex exhibitions, live performances, and cultural tourism night tours. It combines powerful broadcast control with unattended features such as scheduled power on/off, automatic playback, and peripheral device management, ensuring smooth operations. The ccMAX software allows remote control via mobile devices, boosting convenience and efficiency.





More Products

- **EnlightV Assistant**
- **EnlightV License Reader**
- **NDI Transmitter**
- **Hirender Touch**
- **HVC Plugin/Player**
- **Stream Deck Plugin**

EnlightV Assistant

A professional toolkit tailored for the audio-visual broadcast control industry, offering essential functions like batch transcoding, test pattern creation, LED and projection calculations, network testing, command debugging, and console macro editing. One software to streamline complex broadcast control tasks.

NDI Transmitter

A free application that seamlessly integrates additional devices and applications into your workflow via the network, enabling expanded content and video distribution across your productions.

Hirender Touch

A mobile control app designed by enlightV Technology for S3. With a user-friendly interface, it connects via IP in the same network, offering real-time program list access and remote control for S3 management.

EnlightV License Reader

A quick tool for extracting encrypted authorization files. It automatically detects server authorizations, exports files with one click, and generates file names based on dates and custom identifiers.

HVC Plugin/Player

Developed by enlightV Technology, this plugin allows direct export of HVC-encoded videos in Adobe Premiere, After Effects, and Media Encoder, eliminating the need for re-encoding and simplifying workflows.

Stream Deck Plugin

Enhance your control over Hirender S3 Pro with this plugin. Manage program playback, timeline operations, screen display, volume, brightness, and more—all from your Stream Deck.

Software Core Features

Dual-Mode Control | Professional Playback Management
Unlimited Networking & Ultra-High-Resolution
Primary/Backup Mode Multi-Protocol Interface | HVC
Audio Management | Timecode | Copyright Protection

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Dual-Mode Control

Building a Flexible Technical Capability Hierarchy to Optimize Engineer Resource Allocation and Maximize Team.

World's first media server with dual Timeline + Window control. Window Mode for instant playback, Timeline Mode for precision editing. Flexible integration for efficient large-scale event management.



80% Universal Needs

Window mode with presets for instant playback
quick onboarding for technical newcomers.

20% Professional-Level Control

Timeline mode retains precise control
Focusing on creative execution.



■ Tree of Life

Professional Playback Management

Hirender's professional playback system excels in complex displays, featuring LED splicing, multi-channel projection blending, and real-time correction. It empowers creative teams to transcend physical and display limits, crafting unforgettable visuals.



Beyond Perfecting LEDs or Projections, Integrating Multi-Terminal displays into a Cohesive Whole



Geometric Calibration



Operational Integration



Color Synchronization



Unified Playback Control



**Ultra-Large-Scale Displays
Where Creativity Begins
Not Ends**

■ 2023 Hangzhou Asian Games Opening Ceremony

Unlimited Connectivity & Ultra-High-Resolution

Hirender breaks device limits with scalable server clusters, frame-synced multi-channel output, and unified display control—freeing creativity from technical constraints.

■ Billion-Pixel Mastery

Our distributed architecture effortlessly manages billion-pixel resolution, flawlessly delivering 24 channels of 4K60Hz at the 2023 Hangzhou Asian Games.

■ Industrial-Grade Stability

Enduring 720-hour stress tests with 99.999% sync reliability, we met the fault-tolerant demands of the 2022 Beijing Winter Olympics.

■ Frame Sync Precision



Millisecond-level synchronization eradicates screen tearing at 60Hz, delivering seamless, dynamic visuals.

Primary-Backup Mode

Built for live events, Hirender ensures real-time frame sync between primary and backup servers. All assets and settings auto-sync, eliminating redundant setups. If the primary fails, the system instantly switches to the backup, maintaining seamless audio and video. With dual-link redundancy and smart monitoring, it handles hardware or network risks, delivering "one setup, double assurance" for concerts and large events.



True Safety
Means Making Security Mechanisms Invisible.

-  Real-time frame sync
-  Seamless switching
-  Dual-link redundancy
-  Intelligent monitoring



Multi-Protocol Interface

Master control transcends basic centralized operations by transforming lighting, machinery, audio, and more into deeply integrated "digital organs" through multi-protocol interfaces—the "neural pathways" of the system. Hirender natively supports over 20 protocols, including DMX512, Art-Net, MIDI, TCP, and UDP, creating a "digital spinal cord" for seamless cross-device communication. By tightly coupling protocols with timelines, it turns scattered device clusters into a unified, intelligent system for stages, exhibitions, and beyond.



One system, zero technical hurdles
for performances and exhibitions.





Beyond encoding evolution,
it redefines hardware performance.

HVC

Traditional formats can't keep up with today's large-scale visuals.

EnlightV's HVC (Hirender Video Coding) sets a new standard with 16K*16K resolution, Alpha transparency, millisecond encoding, and compact file sizes—empowering creators with unmatched precision and performance.



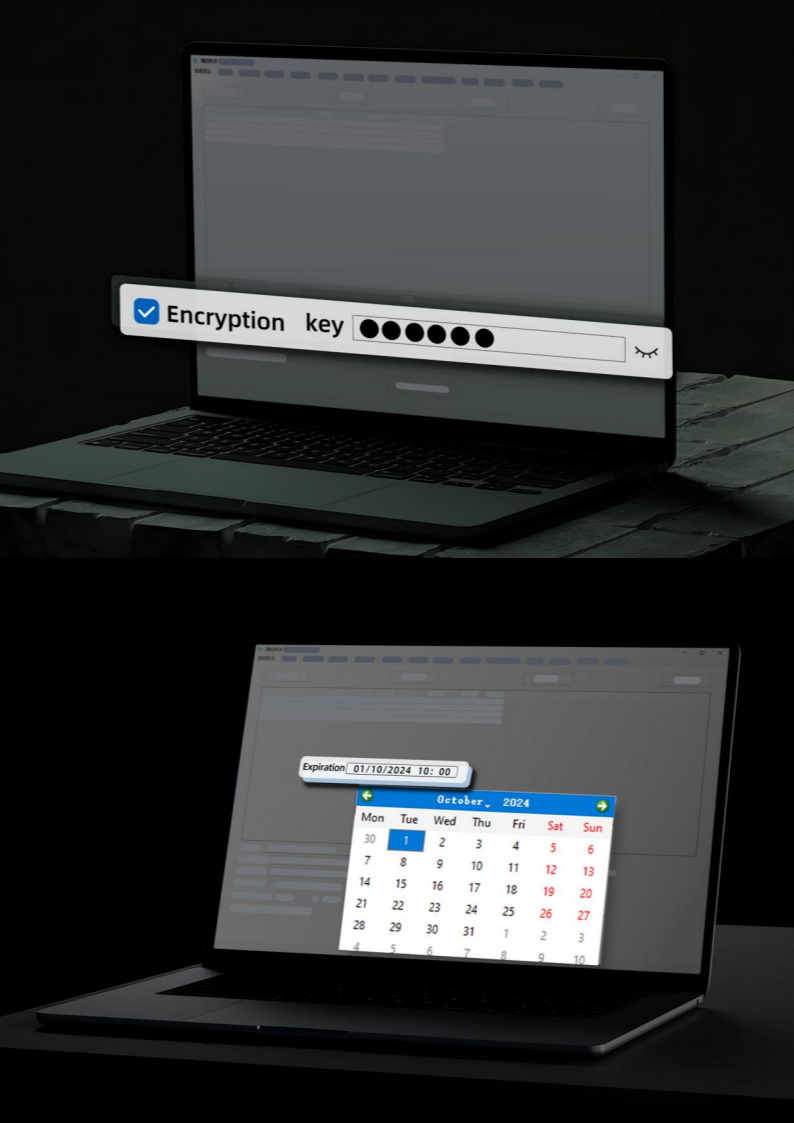
2022 Beijing Winter Olympics Opening Ceremony

Copyright Protection

Hirender safeguards content with AES-256 encryption and device binding, ensuring secure playback for performances and exhibitions. It enables remote updates, playback limits, and validity periods, while preventing unauthorized copying, tampering, or distribution. A lightweight solution for high-value content.



Every frame, protected.

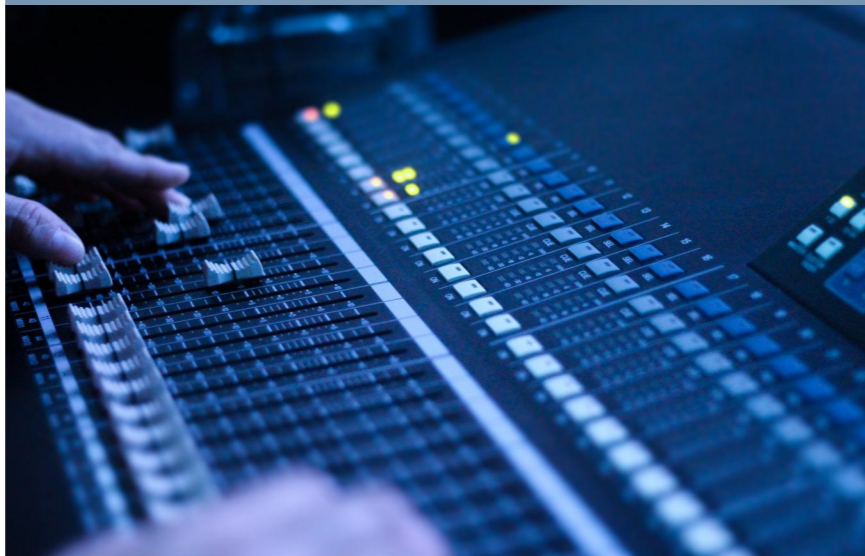


Audio Management

Achieve Precise Control Over Every Sound Wave.

Hirender's audio module integrates professional workflows with lossless pass-through for pristine quality. Virtual sound cards unify signals from GPUs and external devices, while multi-channel mapping boosts efficiency for performances and exhibitions. With Dante protocol, it ensures precise synchronization, delivering professional-grade audio control.

**One System,
Industrial-Grade Synchronization
for Video and Audio.**



“ Trigger at Any Node

Timecode

Every Program on the Timeline: A Hub for Seamless Device Coordination.

Hirender's timecode module supports LTC and MTC, enabling seamless device control without external converters. Any timeline program can trigger or sync lighting, machinery, audio, and video. Its visual interface simplifies multi-device coordination, offering reliable solutions for concerts, theaters, and events.

Media Servers

4U | 2U | D4D16

03

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4U

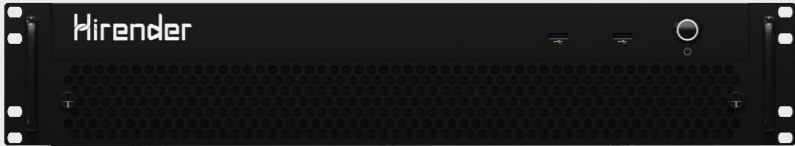
The 4U Series is a high-performance, custom media server optimized for Hirender S and C Series software. Available in Standard, Pro, and Pro Plus versions, it features four 4K outputs and multiple video capture channels for ultimate flexibility. Designed by Hirender for large-scale performances and events.



	4U Pro	4U Pro Plus
Intel Core high-frequency processor	16 cores	24 cores
High-frequency memory	16G	32G
High-speed SSD	500G M.2	1T M.2
NVIDIA professional graphics card	12GB	16GB

2U

Designed for small to medium projects, the 2U Multimedia Server combines performance and flexibility in a compact, portable design. Its user-friendly interface ensures quick setup, making it perfect for events, education, and community use. Affordable and reliable, it delivers efficient audiovisual solutions.



Capture

2x2K HDMI or
HDMI/SDI

Video signals

NVIDIA
dedicated graphics card

Processing power

Output

2x4K

Video signals

Unlimited

Channel

D4D16

The D4D16 supports frame sync, ultra-high-res display, multi-screen stitching, projection mapping, device control, and program arranging. Its customizable hardware ensures reliable performance for large events, performances, and conferences.



Capture

4x2K
HDMI/SDI

Video signals

NVIDIA
High-Performance GPU

Processing power

Output

4x4K

Video signals

Unlimited

Channel

Custom-Crafted for Every Demand

More wonders await your discovery !
Contact us now for detailed solutions !
Email: info@enlightv.com

	4U	2U	D4D16
Video Output	4xDisplayPort 1.4 1xDisplayPort 1.2	2xDisplayPort1.4 1xDisplayPort1.4 (Monitor preview)	1xDisplayPort 1.2 Integrated GPU 4xDisplayPort 1.4 Dedicated GPU 16XDVI (Cannot be used simultaneously with DP dedicated graphics.)
Video Input	①4*HDMI ②1*SDI+1*DVI/2*SDI/2*DVI(option)	①1*HDMI+1*SDI (standard) ②2*HDMI (option)	2xHDMI+2xDVI
Applicable Scenarios	Large-scale performances and events	Small to medium events, educational and community	Large-scale events, performances,and complex scenarios
Core Positioning	High-performance custom media server, specifically for large-scale events	Customized for small to medium projects, balancing flexibility and cost-effectiveness	Multifunctional media server, for large-scale events and professional teams
Core Advantages	High-performance customization, flexible combinations	Flexible configurations, outstanding usability	Features include frame sync, irregular screen control, projection mapping, etc.
Expandability	Supports flexible configurations with strong scalability	Fixed configurations, limited expandability	Supports hardware upgrades and expansions

Application Scenarios

Stage Performances | Exhibition Halls | Conferences & Events

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2022 Beijing Winter Olympics Opening Ceremony

The opening ceremony showcased innovation, sustainability, and health. Hirender powered the ground screen, ice waterfall, ice cube, and Bird's Nest screens, delivering flawless visuals.

■ 16K total resolution | 27 channels of 4K*50Hz video | Real-time Intel 3DAT interaction



2023 Hangzhou Asian Games Opening Ceremony

A celebration of Chinese and Asian culture, inspired by traditional elements and Zhejiang imagery. Hirender conveyed the spirit of sports and natural aesthetics, presenting the timeless beauty of the East.

■ 22784*17664 LED screen | 24 channels of 4K60Hz video | Frame sync | Seamless backup



2024 CCTV Spring Festival Gala - Xi'an Sub-Venue

Hirender media servers powered projections, showcasing 2024 CCTV Spring Festival Gala in Kashgar and Xi'an, ensuring stunning stage designs and performances.

■ Precision on the global stage | Building Mapping



Western (Chongqing) Science City

A pioneering sand table show with dynamic dome, surface, and ground displays, immersing audiences in a futuristic scientific experience.

■ 8K ultra-HD output | Dome screen control



Life Art - Mawangdui Han Dynasty Immersive Digital Exhibition

Highlighting one of China's most significant archaeological discoveries, the exhibition takes audiences on a journey through time, space, and life.

■ Multi-projector control



Only the Red Dream - Drama Fantasy City

An 8-year masterpiece, this project integrates cultural and regional development, testing the limits of broadcast control with its rich program content.

■ Omni control | Multi-projector support

Scan the QR code immediately
to explore more cases!






Guofeng Meitang Complex, Building 3, 5th Floor, Changping District, Beijing

info@enlightv.com

www.hecoos.com

Enlight  EnlightV Brand