

SC-ENC01E-H265-4K

AV OVER IP / Encoder

Model Number:#3107251105



Features

- HDMI 1.4 and HDCP 1.4 compliant
- Video resolution up to 3840x2160@30Hz
- Support 10.2Gbps video bandwidth
- Signal transmission distance can be extended up to 328ft / 100m via CAT5E/6/6A/7 cable
- Support point-to-point signal extension
- Support signal distribution, multicast mode, distributed matrix and video wall (up to 9x9) functions over a 1G Network Switch
- Intelligent video wall management makes it achievable of novel layout of wall configurations
- Support LPCM 2.0CH (32/44.1/48KHz) audio format
- Support audio embedding and extracting
- Support RS-232 control (pass-through & Guest mode)
- Support main stream and sub stream encoding modes
- Stream parameters can be configured via Web GUI or Controller Box
- Controlled via RS-232, TCP/IP, Web GUI and Controller Box
- Support POE function (802.3af Class 3, PD mode)
- Smart networking design for easy and flexible installation

Product Overview

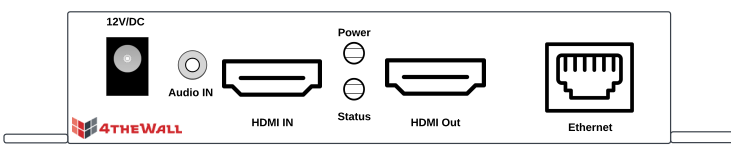
The 4TheWall HDMI Video Encoder with Loopback is a high-definition audio and video encoding device designed to deliver powerful and versatile streaming capabilities. Supporting a maximum input resolution of 1920x1080@60fps, this encoder ensures high-quality video capture and streaming, making it ideal for live broadcasting, video conferencing, and digital signage applications. With broad compatibility across multiple streaming protocols and platforms, it provides seamless integration for professional and personal streaming needs.

- **Max Input Resolution of 3840x2160@30fps:** Captures high-definition video with a maximum resolution of 1080p at 60 frames per second, ensuring smooth and detailed video quality for various applications.
- **Output Stream Resolution up to 2160P@30fps:** Provides high-quality output streaming, delivering clear and crisp video to your desired platform or device.
- **Multiple Streaming Protocols Supported:** Compatible with a wide range of streaming protocols including HTTP, HLS, FLV, RTSP, RTMP(S), UDP/RTP (UNICAST/MULTICAST), and ONVIF, offering flexibility for different streaming requirements and network environments.
- **HDMI Loop-Out for Monitoring:** Equipped with an HDMI loop-out port, allowing for real-time monitoring of the source content on an external display while streaming, making it ideal for live production and quality assurance.
- **Works with Popular Live Streaming Platforms:** Easily integrates with popular online live broadcast platforms such as YouTube, Facebook, Ustream, Twitter, and more. This makes it a versatile tool for content creators, educators, and broadcasters looking to reach a wide audience.
- **24/7 Operation and Low Latency:** Designed for reliable, around-the-clock operation with minimal latency, ensuring stable and high-quality streaming performance for professional use cases.

Applications

- **Live Streaming and Broadcasting:** Ideal for live streaming events, lectures, and performances directly to platforms like YouTube and Facebook.
- **Video Conferencing:** Provides high-quality video encoding for virtual meetings and conferences, ensuring clear communication and visual fidelity.
- **Digital Signage:** Suitable for real-time content distribution in retail, hospitality, and corporate environments.
- **Education and Training:** Enhances remote learning and training by enabling high-quality video streaming of lectures, tutorials, and training sessions.

The 4TheWall HDMI Video Encoder with Loopback is a versatile and reliable solution for high-definition video encoding and streaming. With its robust functionality, wide protocol support, and seamless integration with popular streaming platforms, it is an ideal choice for professionals and enthusiasts looking to deliver high-quality live broadcasts and on-demand content.



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Technical Specifications

Input and Output	
Inputs & Outputs	1 x HDMI input, 1 x HDMI loopback Max support 3840x2160@30Hz, 1 x Stereo audio In (3.5 mm)
Inputs Resolution	Up to 3840x2160@30Hz
Network	1x LAN (RJ45 connector), Gigabit
General Features	
Video Bandwidth	10.2Gbps
Color Space	RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2
Video Compression Standart	H.265/H.264 - 0.1 to 32 Mbps bitrate and 5 to 60 Fps support - VBR or CBR HTTP / HLS / FLV / RTSP / RTMP(S) / UDP/RTP (Unicast/Multicast) ONVIF
Color	8/10/12bit
Audio Formats	AAC/AAC+/AAC++/MP3/MP2/AC3 G711
Transmission Distance	100m (CAT5E/6/6A/7)
Management Features	
Management and Control	TCP/IP, Web GUI, and API
Others	
Power Connection	AC100 - 240V 50/60Hz, DC 12V/1A
Working Temperature	14 - 113°F / -10 - 45°C
Humidity Range	5 - 90% RH (no condensation)
Storage Temperature	-4 - 140°F / -20 - 60°C
Dimensions	170mm × 130mm × 30mm - Width/Depth/Height, Metal Enclosure
Weight	300 gr
Power Value/Consumption	2.6W
Mounting	Desktop
ESD Protection	±8kV (Air-Gap Discharge) & ±4kV (Contact Discharge)
Certifications	
EU/USA	CE/FCC/UL
Package Details	
Package Contents	1 x 2160P over IP 100M/1GbE Encoder 1 x 12V/1A Locking Power Adapter 1 x User Manual