

# 2 Channel Live Streaming Encoder

## HP9002



### Overview

HP9002 two channel live streaming encoder adopts H.264 H.265 video compression algorithm and AAC-LC AAC-HE audio compression algorithm. It has excellent video performance and audio reproduction even under severe conditions of low network bandwidth. 1080P25 encoding delay is less than 300ms by using low-latency encoding technology.

### Product Features

- Cost-effective, maximum support 2×HDMI, 2×HD/SD-SDI, 2×AES/EBU, 2×analog stereo input
- Each channel signal supports to push video streams to three different platform simultaneously, encode separately with the same signal source
- High stability, embedded design, low power consumption
- Ultra-low compression rate
- Ultra-low encoding delay, encoding delay is less than 300ms
- Support SRT, RTMP, HLS (M3U8), HTTP, UDP
- Support H.265 H.264/AVC high code stream, medium code stream, low code stream
- Audio encoding supports AAC-LC AAC-HE MPEG1
- Support power-off memory function. When there is no video signal, auto fill color bars
- Support various video format input:1080P 1080I 720P and PAL NTSC
- Support publishing real-time live stream to streaming media servers such as Adobe FMS, Wowza, RED5 etc.
- Strong usability, embedded Web configuration and front panel LCD + button + indicator
- Plug-in two power supplies, with buzzer alarm function

## Specification

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### Input

Video: 2×HD/SD-SDI(BNC), 2×HDMI(support HDCP)  
Support 720×480i/p, 720×576i/p, 1280×720p, 1920×1080i/p  
Audio: HD/SD-SDI (embedded audio), HDMI (embedded audio), analog audio left and right channels (XLR), AES/EBU (XLR)

### Output

Connector: 1×RJ45, 10/100/1000Mbps  
Output protocol: TS Over UDP, FLV Over HTTP, HLS(M3U8), RTMP, SRT

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### Video Encoding

Maximum processing capacity: 1920×1080P60, 1280×720P60  
Pretreatment: support deinterlacing  
Coding standard: H.264 H265 (HEVC)  
Encoding delay: below 300ms  
Resolution: 640×360~1920×1080 adjustable  
Frame rate: 15Hz~60Hz adjustable  
Coding grade: high, medium and low adjustable  
Coding level: adaptive according to parameters  
Bitrate: 500kbps~10Mbps adjustable, peaks of high, medium and low channels are different  
Rate control: CBR/VBR  
GOP length: adjustable

### Audio Encoding

Sampling accuracy: 24bit  
Sampling rate: 48KHz  
Sound channel: stereo  
Coding standard: AAC-LC, AAC-HE, MPEG1  
Bit rate: 32Kbps~128Kbps

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### Equipment Management

Front panel: LCD display  
Network: web browser directly access and manage

### Physical Specifications

Power: AC 110V~220V 50/60Hz  
Power consumption: 30W  
Weight: 5KG  
Dimension(L×W×H): 580×420×140 (mm)