

VIDEO & AUDIO



- -AVC& HEVC Streaming; Standard H.264 and H.265 supported for different scenarios
- -Mixing 2* HDMI and 4* IP streams and creating ultimate possibilities in a Box (H2)
- -Sufficient IP protocols; RTSP Over TCP & UDP/ RTMP(s)/ HTTP/ UDP Unicast/ Multicast/ ONVIF/ SRT
- -4K UHD. High quality 4K video delivers immersive watching experience









Streaming

Transcoding

Encoding

Production

Mixing

H2 Video Encoder Decoder



Specifications



HEVC/ H.265, H.264 MPEG-4

Profile

H.265 main profile, H.264 high/ main/ baseline profile



HDMI- H2- Up to 4K@30;

3.5MM line-in Jack for audio

H2- Up to 4 IP in



HDMI- Loop through

Decoding- RTSP/ RTMP/ UDP/ HTTP/ SDK/ HLS/ P-P

HTTP/ HLS/ RTSP over UDP TCP/ RTMP/ UDP Unicast Multicast/ ONVIF/ RTP/P-P/ SRT

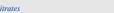
Encoded Resolution:

- 1- Up to 4K@30
- 2- Manually set up
- 3- Under Transcoding and Mixing mode support up to 1080P@60



Transcoding

4* IP to IP (HTTP/RTSP/RTMP/HLS/UDP) H.264/ H.265 to H.265/ H.264



Video: 16KB/S to 12000KB/S, CBR/ VBR

Audio: 48K, 64K, 96K, 128K, 160K, 192K, 256K., 320K Audio sample rate: 24000- 256000

Audio format: MP3/ G.711/ AAC HE/ LC

Accessibilities

Video package: VLC/ FFMPEG

Stream information rename (PMT/ transport ID/ Stream ID)

Image adaptation (Noise/ sharpe/ filter/ contrast/ Bri/Hue)

RS485 (A/B), GND, 12V (serial)



Accessories

Management

··· Others

1* power adapter, 1* audio cable

Haiwei video management platform;

LiveX for Phone; Telnet, API, SDK

Dimension: H2- 21.5* 14* 2.5

Working humidity: <90%

Net weight: H2- 0.3kg

Power: 12V 2A Consumption: 5W

Working temperature: -20°C to 60 °C

HTTP WEB GUI (80/90);

Customized tools.

1* H2/ HSC-S1, 1/2* HDMI cable, 1* warranty card,



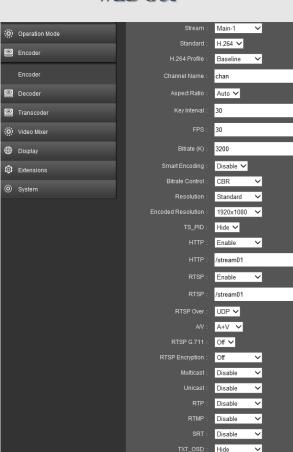


The H2 encoder is the embedded hardware for point to point interactive transmission solution, emergency communication, video mixing, streaming and recording solutions for education, defense, military, marine, city hall etc.

The encoders enabled receiving 8 streams (RTSP, HTTP, HLS, RTMP. RTP, UDP, RTP) and mixing 4ch along with 2 channels 4K HDMI sources, then alternatively output via HDMI/ 3.5mm composite Jack, meanwhile, restreaming via a series of IP protocol like RTSP over UDP & TCP/RTMP/HTTP/ UDP/Unicast/ Multicast/ ONVIF/ P-P (Haiwei proprietary protocol).

By virtue of HaiweiTech powered proprietary protocol, the H2 supports directly receive the stream from another HaiweiTech P-P devices in another network, even another country on the planet without any third-party server.

WEB GUI



Use cases

Like the most of encoder for two way communication, HSC-S1/H2 are designed for simplifying the complex streaming system, here are some use cases for reference



E-learning



Interactive communication



Multi camera production



Video conference

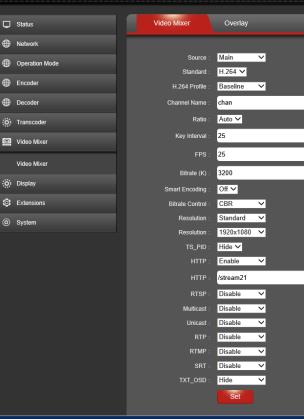


Remote Production



Lecture capturing

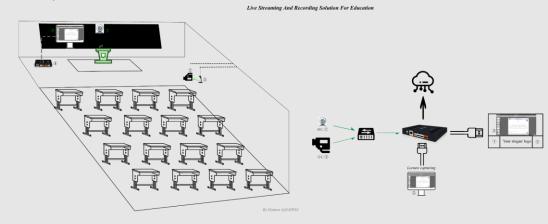
WEB GUI



Use cases

Video mixing and streaming

We know the special requirements and the challenge of the education industry, the C2/ H2 are designed for simplifying the complex production system for Education, Broadcasting, Video communication and Remote production



- 1 IPC1- Capturing the Students
- 2 IPC2- Capturing the teacher/ blackboard
- (3) Microphone for teacher (Bluetooth or omni-directional microphone)
- 4 The encoder (H2- Up to 8 IP+ 2 HDMI in, HSC-S1- Up to 1* HDMI+ 2* IP in)
- 5 Video input from HDMI device

Tips for Video mixing

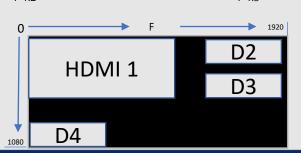
We had used another logic for the C2/ H2, specific functions may be disabled under different operation mode, here are some examples







- F1.1- Operation mode
- F1.2- Set up IP feeds
- F1.3- Set up layer and positions
- F1.4- Live preview
- F1.5- How to calculate the position



F 1.4

Skype: hansen2570
Phone: +8615602202570
E: hansen@hw-iptv.com
Book a Do

