- 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.

Specifications

Video Encoding Standard:

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

Profiles within the Standards:

- H.265 Main Profile
- H.264 High/Main/Baseline Profile

Input:

- HDMI-H2 UP to 4k@30;

- 3.5MM line-in Jack for Audio

IP:

- H2-UP to 4 IP in

Output:

- HDMI
- HDMI-Loop through

Decoding:

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

IP:

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

Encoded Resolution:

- Up to 4K@30 (1 input)
- Manually setup
- UndernderTranscoding and Mixing mode support
- up to 1080P@60

Transcoding:

- 4* IP to IP transcoding: Supports transcoding of up to 4 IP streams.
- Supported protocols: HTTP, RTSP, RTMP, HLS, UDP.
- Supported codec conversions: H.264 to H.265, and H.265 to H.264.

Bitrates:

- **Video:**
    - Bitrate range: 16KB/S to 12000KB/S
    - Supported modes: CBR (Constant Bit Rate) and VBR (Variable Bit Rate)
- **Audio:**
    - Supported bitrates: 48K, 64K, 96K, 128K, 160K, 192K, 256K, 320K

o Audio sample rate: 24000

o Supported sample rate range: 24000 to 256000

o Supported audio formats: MP3, G.711, AAC HE, AAC LC

Accessories:

- 1* H2/ HSC

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

- 1* power adapter, 1*

- audio cable

Management:

- HTTP WEB GUI (80/ 90);

- Haiwei video management platform;

- LiveX for Phone; Telnet, API, SDK

- Customized tools.

Others:

- Dimension: H2 -21.5* 14*2.5

- Working temperature: -20℃ to 60 ℃

- Working humidity: ＜90%

- Net weight: H2 -0.3kg

- Power: 12V 2A

- Consumption: 5W

2HDMI-Over 4 IP Streams Encoders PiPP-PH.265 H.264 SRT

- The 2HDMI-Over 4 IP streams 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 stream 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 , re streaming via a series of IP protocol like RTSP over UDP & TCP/ RTMP/ HTTP/UDP/Unicast/ Multicast/ ONVIF/ P P-P (Haiwei proprietary protocol).

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

Use cases:

E-learning

Interactive -communication

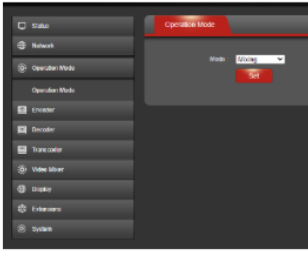Multi-camera-production

Video-conference

Remote production

Lecture capturing

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.
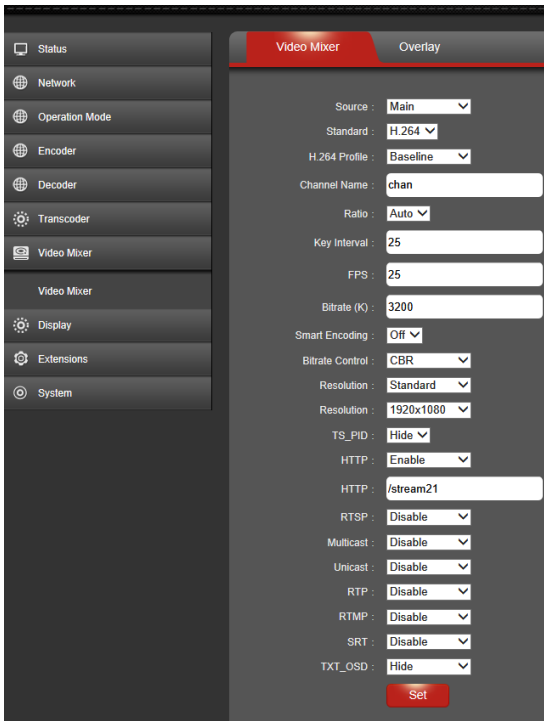
ITTelecom
Ittelecom Optical Technology Co., ltd

F 1.1   F 1.2   F 1.3

F 1.4
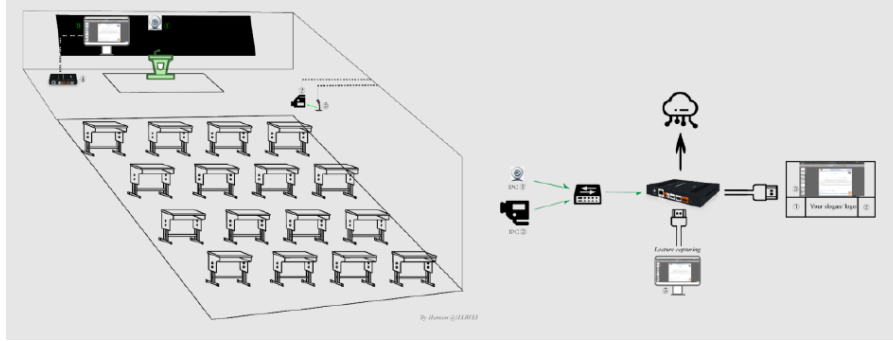

F1.1) Operation mode

F1.2) Set up IP feeds

F1.3) Set up layer and positions

F1.4) Live preview

F1.5) How to calculate the position

Web GUI:

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.