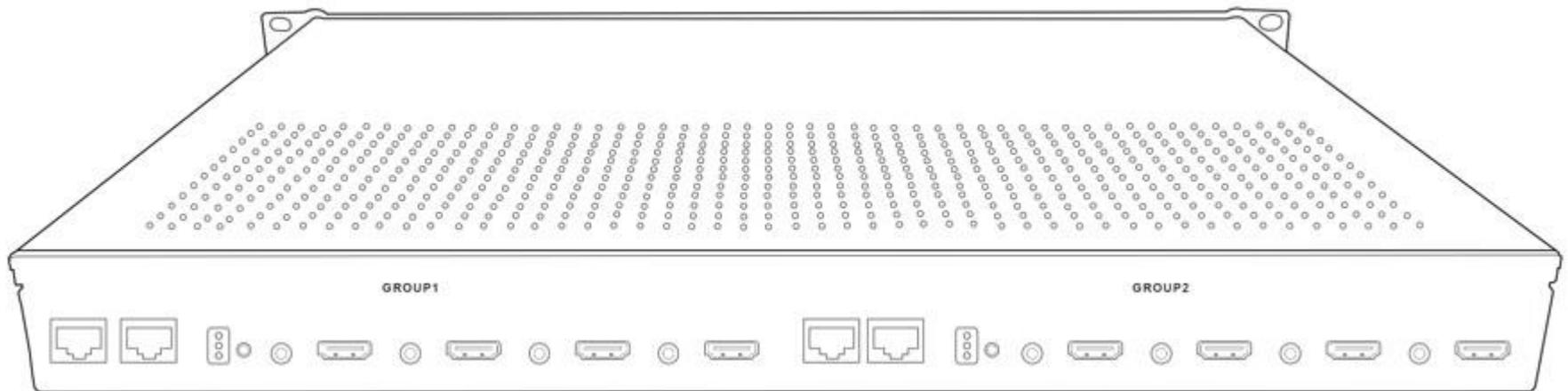




Catalogue



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深圳海威视讯技术有限公司/HaiweiTech

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Certifications & Patents & Honors



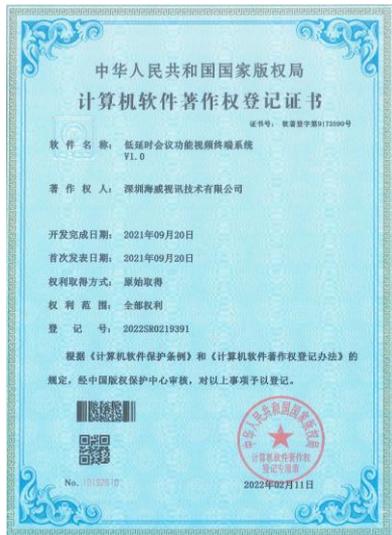
CE



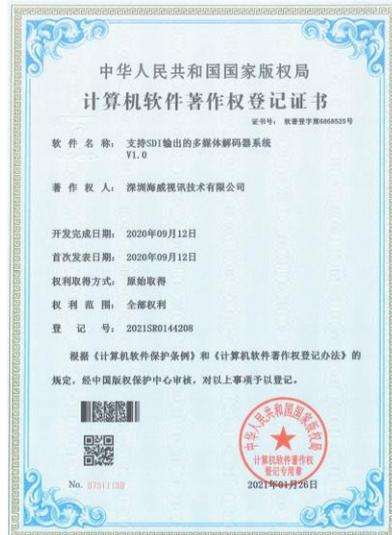
RoHS



FCC



Software Patents



High-tech Enterprise



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K1



K1085-1RU/19 inch



K1S-P POE version



K2165-2RU

The K1/ K1085/ K2165 are high embedded hardware for UHD HDMI over IP required scenario like IPTV, Big screen, Video streaming, live broadcasting, online education, distance medicare etc.

The 4K series encoder are based on the K1 deep embedded PCB board, it allows to receive the UHD video from HDMI sources (up to 2160P 30), and line in audio from 3.5mm composite Jack (active sources required), then send the streams over IP protocol like RTSP over UDP & TCP/ RTMP/ HTTP/ UDP Unicast Multicast/ ONVIF/ RTP/ HLS, Haiwei proprietary protocol (P-P) available as optional, if special network protocol customization please consult Haiwei.

With high performance processor and years of experience in video processing industry, the encoders are available to receive the signal from HDMI sources (up to 2160P, blue ray supported, optional HDCP); then stably stream (push/ pull, support 3840*2160 30fps, 1080P 60FPS out) to video platforms like YouTube, Facebook, twitch, wowza, vmix, OBS....

Smart encoding- four mode supported, 1- Normal; 2, B frame mode (compression rate- 50 than HEVC); 3. Smooth bitrate . 4. Low latency.

Key features

Abundant Internet protocol

RTMP/ HTTP/ HLS/ RTSP over TCP or UDP/ RTP/ UDP Unicast Multicast/ ONVIF (optimal SRT/ P-P/ RTMPS), we support OEM proprietary protocol to the system, email us to get quotes

Powerful upward compatible converting

The HAIWEI 4K series Encoder are highly advanced product with video processing technology, it allows convert any video resolution (below or equal to 4K 30) to 4K 30 out over gigabit Ethernet, email us to get online demo.

Advanced smooth bitrate encoding

The function for smooth stream/ bitrate, with this arithmetic, the encoder will automatically detect the video fluctuation, then automatically modify the video bit to make sure the video quality and completeness.

AVC & HEVC compression

For all of the HEVC encoder from HAIWEI, it will support both H.265 (MAIN profile) And H.264 (HIGH/ MAIN/ BASELINE profile), based on the years of experience in video processing industry, haiwei enabled good video quality under low bit such as 800 kb/s for 720, 1500 for HEVC.

Point to point transmission

For all the product that assembled P-P module (to enable LiveX over Internet, also HAIWEI proprietary protocol), we have exclusive decoder for to get the stream from the P-P encoder that enabling at anywhere without any third-party server!

Indoor/ outdoor live streaming

The design is for indoor live streaming/ broadcasting solution, for outdoor scenario, we made WIFI+ battery version. It is mini sized product that can be easily installed to any camera via hot shoe slot. meanwhile, you can easily control everything about the encoder via phone app- LiveX, don't need any computer to manage the stream/ parameters!

Enhanced IPTV design

For to meet the 24/7/365 workflow, we made 1RU/ 2RU/ 3RU design for this scenario, stable power supply, easy maintenance hot plug design, cooling system based on ventilation hole and silent fans



IP MEDIA LIVE

VIDEO & AUDIO



- AVC& HEVC Streaming; Standard H.264 and H.265 supported for different scenarios
- Mixing 2* 4K HDMI and 8* 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

Model: H2

Input

HDMI- Up to 2* 4K@30, 3.5MM line-in Jack for audio

IP- Up to 8 IP in

Output

HDMI- Loop through

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

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

Encoded Resolution:

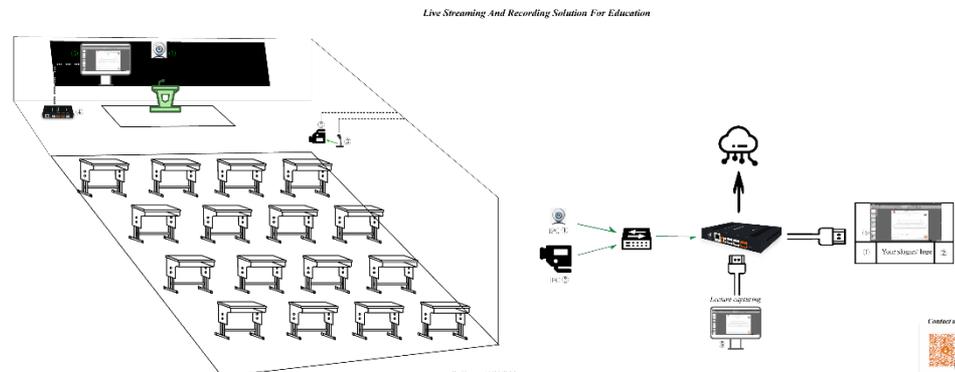
1- H2 4K@30

2 Manually set up

3 Under Transcoding and Mixing mode support up to 1080P@60

The HSC-S1/ H2 encoders are 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 2 or 8 streams (RTSP, HTTP, HLS, RTMP, RTP, UDP, RTP) and mixing along with 1/ 2 channel 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).



Contact us





B PRO-4G (Bonding Encoder Pro-4th Generation), an embedded hardware encoder for outdoor live streaming, video transmission over bonded network.

In order to get smooth bitrate and reliable video transmission in some hostile environments as in the forest or some places where poor signal covered, HAIWEI developed new generation 4G bonding encoder based on video mixing based hardware architecture, it allows remote video production solution inside a box anywhere. By virtue of high performance 4K UHD processor, 12* RTMP/s can be distributed based on a single gear.

Considering long-time live streaming process one would be required, a dismountable 6400mAh lithium battery made 4 hours outdoor transmission possible.

Production can be easily switched and distributed based on the physical keyboards from 1 to 4 by presetting relevant patterns for each button.

Key features

Bonding router

The B PRO 4G cellular bonding encoder supports bonding router function, it means the encoder can be used as a router to supply Internet access for Phone/ other Ethernet hardware.1

Powerful upward compatible converting

The HAIWEI 4K series Encoder are highly advanced product with video processing technology, it allows convert any video resolution (below or equal to 4K 30) to 4K 30 out over gigabit Ethernet, email us to get online demo.

12* RTMP(S) Streaming

New generation brings new possibilities for multiple platforms streaming, the B PRO-4G embedded a high performance chipset that make 12* rtmp/s streams can be output simultaneously.

Easy switching

4 different modes can be presets and related to 1 2 3 4 on the right side of the screen, the production can be easily switched while streaming with single press.

Abundant Internet protocol

RTMP/ HTTP/ HLS/ RTSP over TCP or UDP/ RTP/ UDP Unicast Multicast/ ONVIF (optimal SRT/ P-P/ RTMPS), we support OEM proprietary protocol to the system, email us to get quotes



Bonding router



12* RTMP/S output simultaneously



Audio mixing



Ready to play



Scoreboarding



4x video Mixing & Switching



Loop through



5.0 inch Touchable CTS ①

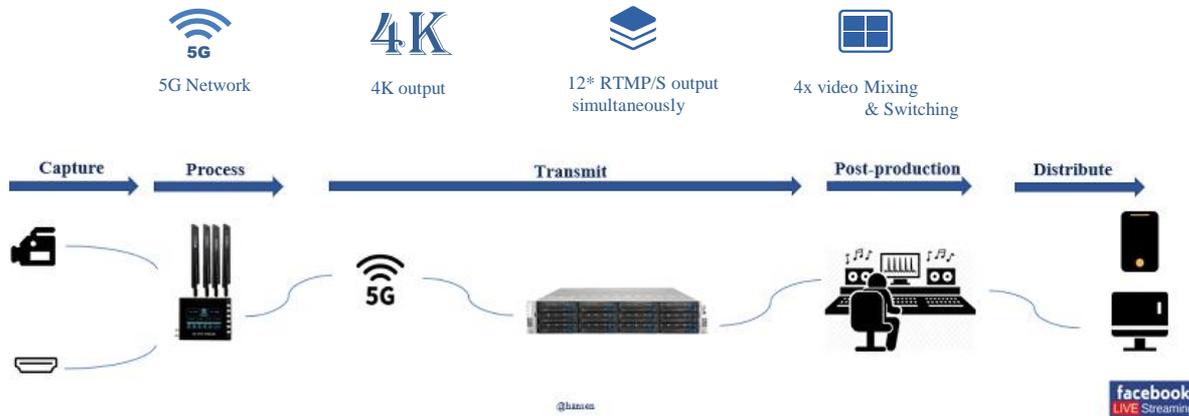




G PRO-5G 5G Encoder is an embedded hardware encoder for outdoor live video streaming, video transmission over advanced 5G network.

High performance 4K UHD processor empowered multi-task processing along with multi channels video mixing, production can be easily produced on the touchable screen, feeds can be switched based on the physical keyboards from 1 to 4 by presetting relevant patterns for each button, and 12* RTMP/s can be distributed based on single gear.

Considering long-time live streaming process one would be required, a dismountable 6700mAh lithium battery made 3 hours outdoor transmission possible.



Key features

Cutting-edge 5G technology

The encoder embedded the Qualcomm SDX55 5G module, the encoder can be used in EU or USA without change a thing.

Video mixing and switching

The encoder embedded video mixing function on it, by virtue of this technology, mixing HDMI/ SDI/ IP feeds get its possibility to be achieved within a box.

12* RTMP(S) Streaming

New generation brings new possibilities for multiple platforms streaming, the B PRO-4G embedded a high performance chipset that make 12* rtmp/s streams can be output simultaneously.

Easy switching

4 different modes can be presets and related to 1 2 3 4 on the right side of the screen, the production can be easily switched while streaming with single press.

Abundant Internet protocol

RTMP/ HTTP/ HLS/ RTSP over TCP or UDP/ RTP/ UDP Unicast Multicast/ ONVIF (optimal SRT/ P-P/ RTMPS), we support OEM proprietary protocol to the system, email us to get quotes



The H8 4G HDMI/ H9 4G SDI encoder are highly embedded hardware. It Allowed to transmit to 1080P 60/ 30, 720P 60 video over IP- HTTP/ RTSP over UDP-TCP/ RTMP(Push/ pull)/ UDP/ RTP/ HLS/ ONVIF/ P-P, and alternative SRT. 4G band supports almost frequency band in global market

- ① Encoding: AVC H.264/ HEVC H.265
- ② Video packaging: FFMPEG/ VLC.
- ③ Transmission layer: TCP, UDP, gigabit port, Wi-Fi, 4G.
- ④ Storage: video management platform, LiveX .
- ⑤ Audio gain, supports AAC (HE/ LC) / MP3/ G.711 encoding.
- ⑥ Video Bit: Rate control: CBR/VBR 16KBIT/S~12MBIT/S
Audio sampling rate: 32000、44100, 48000 etc. encoded audio bit rate: 48K, 64K, 96K, 128K, 160K, 192K, 256K.
- ⑦ Dual stream out, main up to 1080P 60/ 30, sub up to 720P 60, available to customize.
- ⑧ OSD: Text, image.
- ⑨ Line-in audio (active audio source required).
- ⑩ Shell: 100mm * 70mm * 25mm, front panel: acrylic, aviation aluminum shell.
- ⑪ Image settings: contrast ratio, brightness, tones, saturation, noise detection, sharpness, filtering
- ⑫ Encoding level: 1, 2, 3, 4 and 5 (the higher the level, the larger of the code flow fluctuation ratio)

Key features

Abundant Internet protocol

RTMP/ HTTP/ HLS/ RTSP over TCP or UDP/ RTP/ UDP Unicast Multicast/ ONVIF (optimal SRT/ P-P/ RTMPS), we support OEM proprietary protocol to the system, email us to get quotes

Advanced smooth bitrate encoding

The function for smooth stream/ bitrate, with this arithmetic, the encoder will automatically detect the video fluctuation, then automatically modify the video bit to make sure the video quality and completeness.

AVC & HEVC compression

For all of the HEVC encoder from HAIWEI, it will support both H.265 (MAIN profile) And H.264 (HIGH/ MAIN/ BASELINE profile), based on the years of experience in video processing industry, haiwei enabled good video quality under low bit such as 800 kb/s for 720, 1500 for HEVC.

Outdoor live streaming

The design is for outdoor live streaming/ broadcasting solution, high speed 4G module enables the transmission when you streaming on the country path or city avenue, meanwhile, you can easily control everything about the encoder via phone app- LiveX

Point to point transmission

For all the product that assembled P-P module (to enable LiveX over Internet, also HAIWEI proprietary protocol), we have exclusive decoder for to get the stream from the P-P encoder that enabling at anywhere without any third party server!



**U520S (AVC)
U525L (HEVC)**

**Y520S (AVC)
Y525L (HEVC)**

**Y530S (AVC)
Y535L (HEVC)**

About the U/Y 520 series encoder

The U520 series encoders are high embedded hardware for HDMI over IP required scenario like IPTV, Video streaming, live broadcasting, online education, distance medicare etc

The U/Y series are based on the U520S/ 520L high embedded PCB board, it allowed to receive the video from HDMI, and Audio from 3.5mm composite Jack, then send the streams over IP protocol like RTSP over UDP & TCP/ RTMP/ HTTP/ UDP Unicast/ Multicast/ ONVIF/ RTP/ HLS.

With high performance Hisilicon processor and our years of experience in video processing industry, the encoders are available to receive the signal from HDMI sources (up to 108060FPS, blue ray supported, HDCP supported), and then stably stream (push/ pull, support 1080P 60FPS out) to video platforms like YouTube, facebook, twitch, vmix, OBS....

U520S (AVC)- H.264 4* 1080@60 OUT
U525L (HEVC)- H.265 2*4K+ 2*1080P@60 OUT

Key features

Abundant Internet protocol

RTMP/ HTTP/ HLS/ RTSP over TCP or UDP/ RTP/ UDP Unicast Multicast/ ONVIF (optimal SRT/ P-P/ RTMPS), we support OEM proprietary protocol to the system, email us to get quotes

Advanced smooth bitrate encoding

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AVC & HEVC compression

For all of the HEVC encoder from HAIWEI, it will support both H.265 (MAIN profile) And H.264 (HIGH/ MAIN/ BASELINE profile), based on the years of experience in video processing industry, haiwei enabled good video quality under low bit such as 800 kb/s for 720, 1500 for HEVC.

Point to point transmission

For all the product that assembled P-P module (to enable LiveX over Internet, also HAIWEI proprietary protocol), we have exclusive decoder for to get the stream from the P-P encoder that enabling at anywhere without any third-party server!

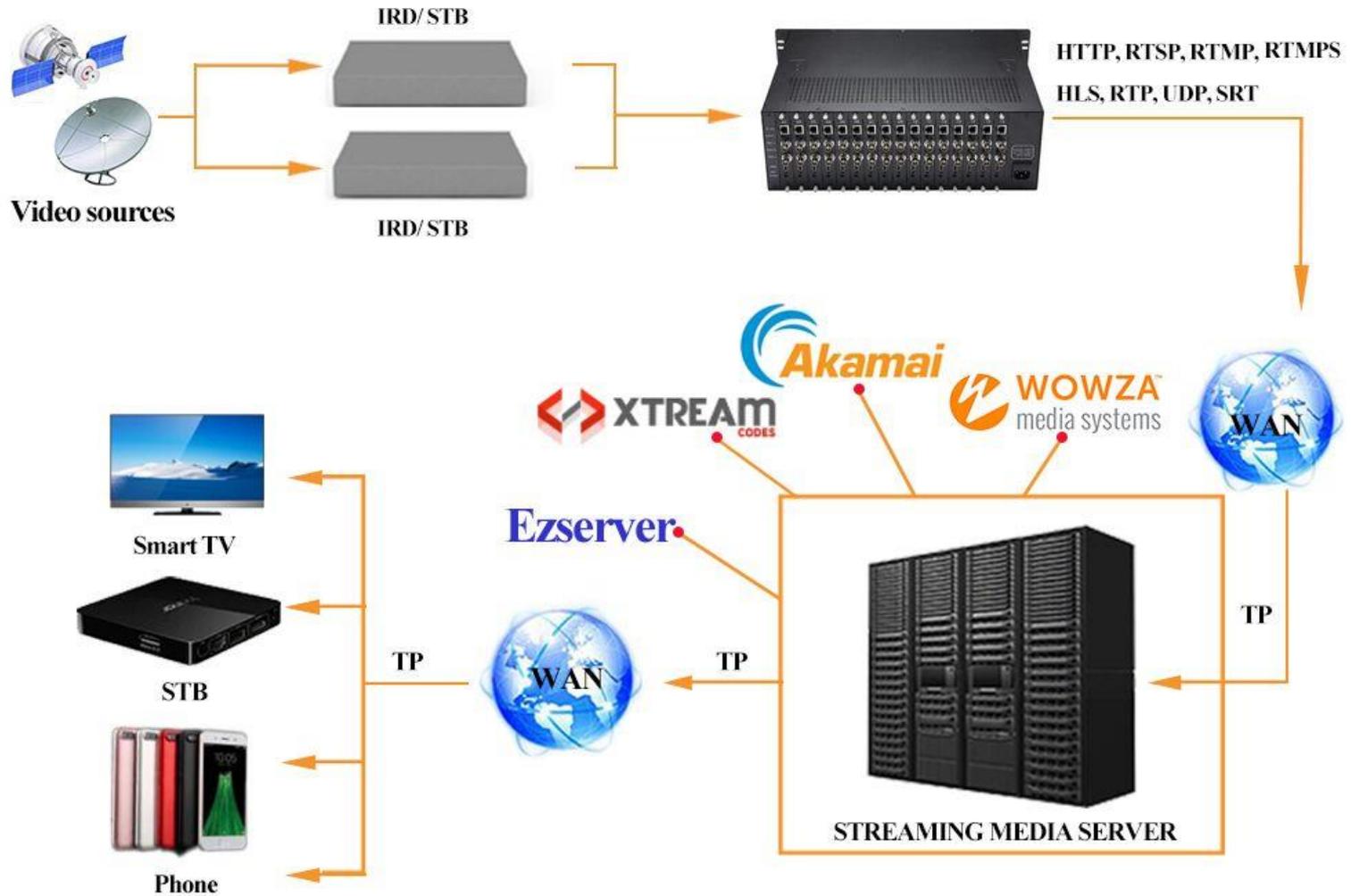
Indoor live streaming

The design is for indoor live streaming/ broadcasting solution, it enables 1 gigabit Ethernet (LAN port) to transmit 4 different sources to platform, meanwhile, a 100M Ethernet port to manage the encoder (WAN port)

Enhanced IPTV design

For to meet the 24/7/365 workflow, we made 1RU/ 2RU/ 3RU design for this scenario, stable power supply, easy maintenance hot plug design, cooling system based on ventilation hole and silent fans

IPTV illustrated



H8110 series (Mini)



H3110C series (Portable)



About the H8110/H3110C based encoders

The H8110/H3110C series are high embedded hardware for video over IP required scenario like IPTV, video wall, Video streaming, live broadcasting, online education, distance medicare etc

The H8110 series encoder are based on the H8110 high embedded PCB board, it allowed to receive the video from HDMI (alternative HDMI/ CVBS/ VGA/ ypbpr based on each different design) sources, and line in audio from 3.5mm composite Jack(active sources required), then send the streams over IP protocol like RTSP over UDP & TCP/ RTMP/ HTTP/ UDP Unicast Multicast/ ONVIF/ RTP/ HLS, Haiwei proprietary protocol (P-P) available as optional, if special network protocol customization please consult Haiwei.

With high performance processor and years of experience in video processing industry, the encoders are available to receive the signal from HDMI sources (up to 1080 60, blue ray supported, optional HDCP); then stably stream (push/ pull, support 1080P 30/60FPS(default 30FPS)out) to video platforms like YouTube, facebook, twitch, wowza, vmix, OBS....

Smart encoding- The function for smooth stream/ bitrate, with this arithmetic, the encoder will automatically detect the video fluctuation, then automatically modify the video bit and to make sure the video quality and completeness

Key features

Abundant Internet protocol

RTMP/ HTTP/ HLS/ RTSP over TCP or UDP/ RTP/ UDP Unicast Multicast/ ONVIF (optimal SRT/ P-P/ RTMPS), we support OEM proprietary protocol to the system, email us to get quotes

Advanced smooth bitrate encoding

The function for smooth stream/ bitrate, with this arithmetic, the encoder will automatically detect the video fluctuation, then automatically modify the video bit to make sure the video quality and completeness.

AVC compression

For all of the AVC H.264 (HIGH/ MAIN/ BASELINE profile), based on the years of experience in video processing industry, haiwei enabled good video quality under low bit such as 1000 kb/s for 720, 2000 for 1080P under H.264

Point to point transmission

For all the product that assembled P-P module (to enable LiveX over Internet, also HAIWEI proprietary protocol), we have exclusive decoder for to get the stream from the P-P encoder that enabling at anywhere without any third-party server!

Indoor/ outdoor live streaming

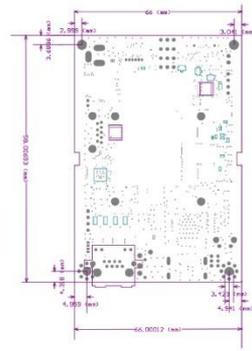
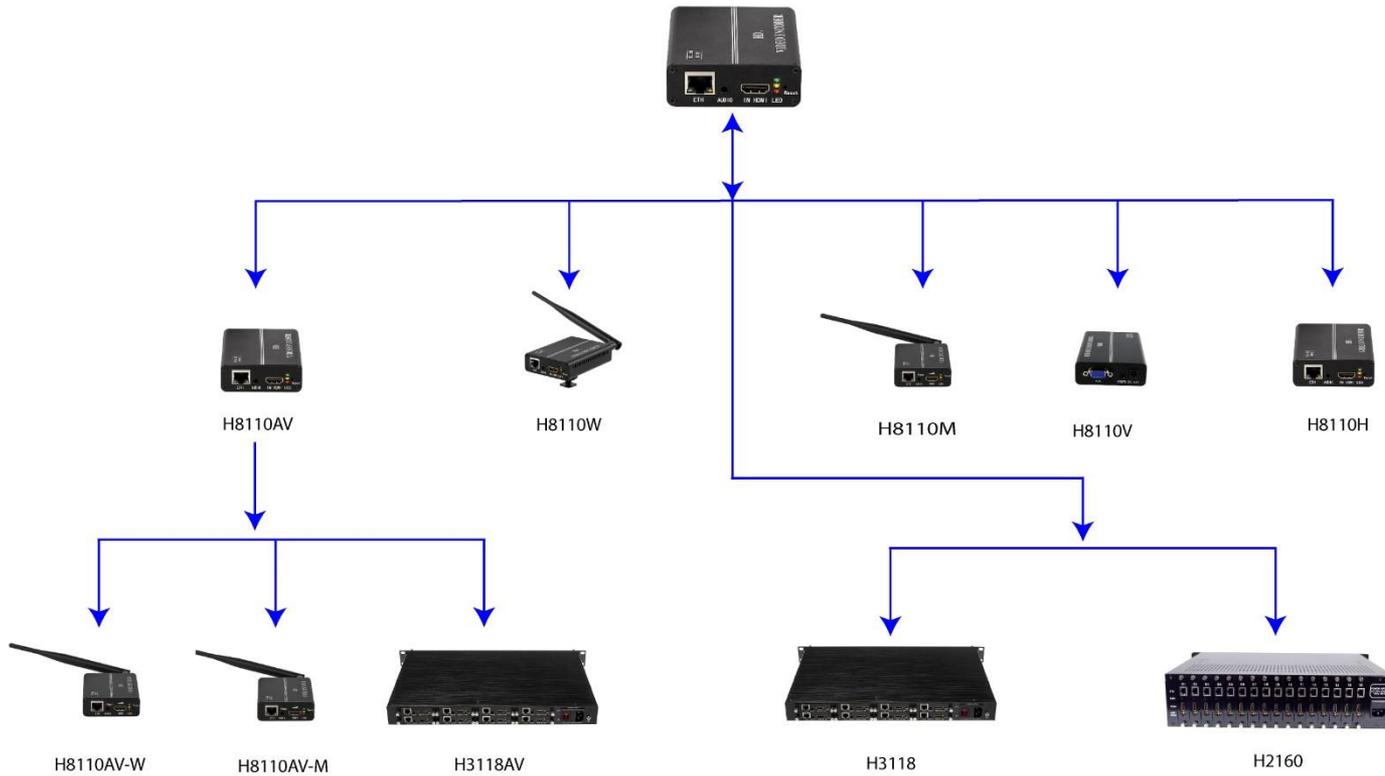
The design is for indoor live streaming/ broadcasting solution, for outdoor scenario, we made WiFi+ battery version. It is mini sized product that can be easily installed to any camera via hot shoe slot. meanwhile, you can easily control everything about the encoder via phone app- LiveX, don't need any computer to manage the stream/ parameters!

Enhanced IPTV design

For to meet the 24/7/365 workflow, we made 1RU/ 2RU/ 3RU design for this scenario, stable power supply, easy maintenance hot plug design, cooling system based on ventilation hole and silent fans



H8110 series AVC H.264

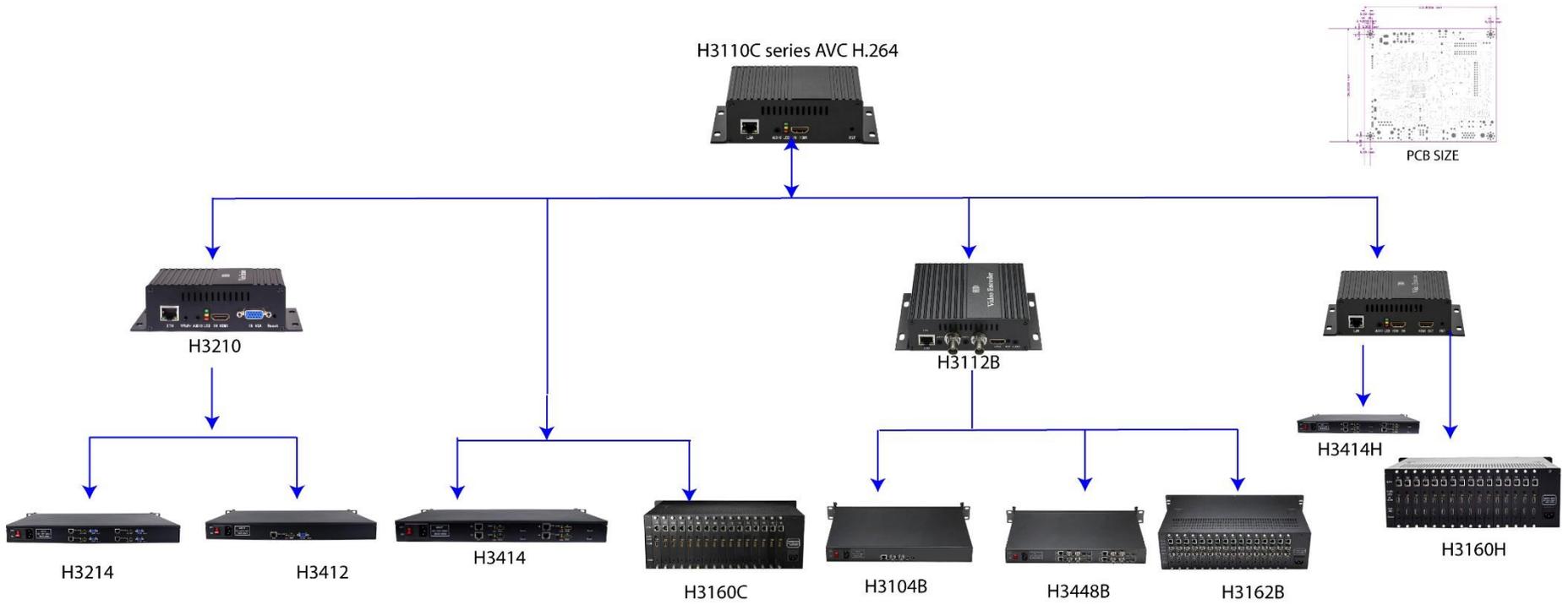


PCB SIZE
SMALL

Models	Functions
H8110	H.264 HDMI
H8110W	H.264 HDMI+ WIFI
H8110M	H.264 HDMI+ WIFI+ Battery
H8110AV	H264 HDMI+ CVBS
H8110AV-W	H.264 HDMI+ CVBS+ WIFI
H8110V	H.264 HDMI+ CVBS+ VGA+ YPBPR
H8110H	H.264 HDMI LOOP THROUGH
H8110AV-W	H.264+ CVBS+ WIFI+ battery
H8110AV-M	H.264 HDMI+ CVBS+ WIFI+ battery

Models	Functions
H3118	8 X H.264 HDMI+ CVBS
H3118AV	8 X H.264 HDMI
H2160	16 X H.264 HDMI





Models	Functions
H3110C	H.264 HDMI
H3414	4 X H3110C In 1RU Chassis
H3160C	16 X H3110C In 1RU Chassis
H3210	H.264 HDMI+ CVBS+ VGA+ YPBPR
H3214	4 X H3210 In 1RU Chassis
H3412	H3210 In 1RU Chassis

Models	Functions
H3112B	1 X HDMI+ 2 X CVBS
H3104B	H3112B In 1RU Chassis
H3448B	4 X H3112B
H3162B	16 X H3112B

Models	Functions
H3110H	H3110C HDMI loop through
H3414H	4 X H3110C
H3160H	16 X H3110C



H8118 series (mini)



H5110 series (portable)



The H8118 series are high embedded hardware for video over IP required scenario like IPTV, video wall, Video streaming, live broadcasting, online education, distance medicare etc

The H8118/ H5110 series encoder are based on the H8118 high embedded PCB board, it allowed to receive the video from HDMI (alternative HDMI/ CVBS/ VGA/ ypbpr based on each different design) sources, and line in audio from 3.5mm composite Jack(active sources required), then send the streams over IP protocol like RTSP over UDP & TCP/ RTMP/ HTTP/ UDP Unicast Multicast/ ONVIF/ RTP/ HLS, Haiwei proprietary protocol (P-P) available as optional, if special network protocol customization please consult Haiwei.

With high performance processor and years of experience in video processing industry, the encoders are available to receive the signal from HDMI sources (up to 1080 60, blue ray supported, optional HDCP); then stably stream (push/ pull, support 1080P 30/60FPS(default 30FPS)out) to video platforms like YouTube, facebook, twitch, wowza, vmix, OBS....

Smart encoding- The function for smooth stream/ bitrate, with this arithmetic, the encoder will automatically detect the video fluctuation, then automatically modify the video bit and to make sure the video quality and completeness

Key features

Abundant Internet protocol

RTMP/ HTTP/ HLS/ RTSP over TCP or UDP/ RTP/ UDP Unicast Multicast/ ONVIF (optimal SRT/ P-P/ RTMPS), we support OEM proprietary protocol to the system, email us to get quotes

Advanced smooth bitrate encoding

The function for smooth stream/ bitrate, with this arithmetic, the encoder will automatically detect the video fluctuation, then automatically modify the video bit to make sure the video quality and completeness.

AVC & HEVC compression

For all of the HEVC encoder from HAIWEI, it will support both H.265 (MAIN profile) And H.264 (HIGH/ MAIN/ BASELINE profile), based on the years of experience in video processing industry, haiwei enabled good video quality under low bit such as 800 kb/s for 720, 1500 for HEVC.

Point to point transmission

For all the product that assembled P-P module (to enable LiveX over Internet, also HAIWEI proprietary protocol), we have exclusive decoder for to get the stream from the P-P encoder that enabling at anywhere without any third-party server!

Indoor/ outdoor live streaming

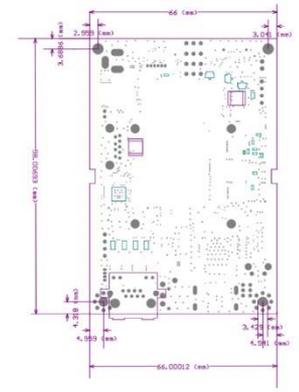
The design is for indoor live streaming/ broadcasting solution, for outdoor scenario, we made WiFi+ battery version. It is mini sized product that can be easily installed to any camera via hot shoe slot. meanwhile, you can easily control everything about the encoder via phone app- LiveX, don't need any computer to manage the stream/ parameters!

Enhanced IPTV design

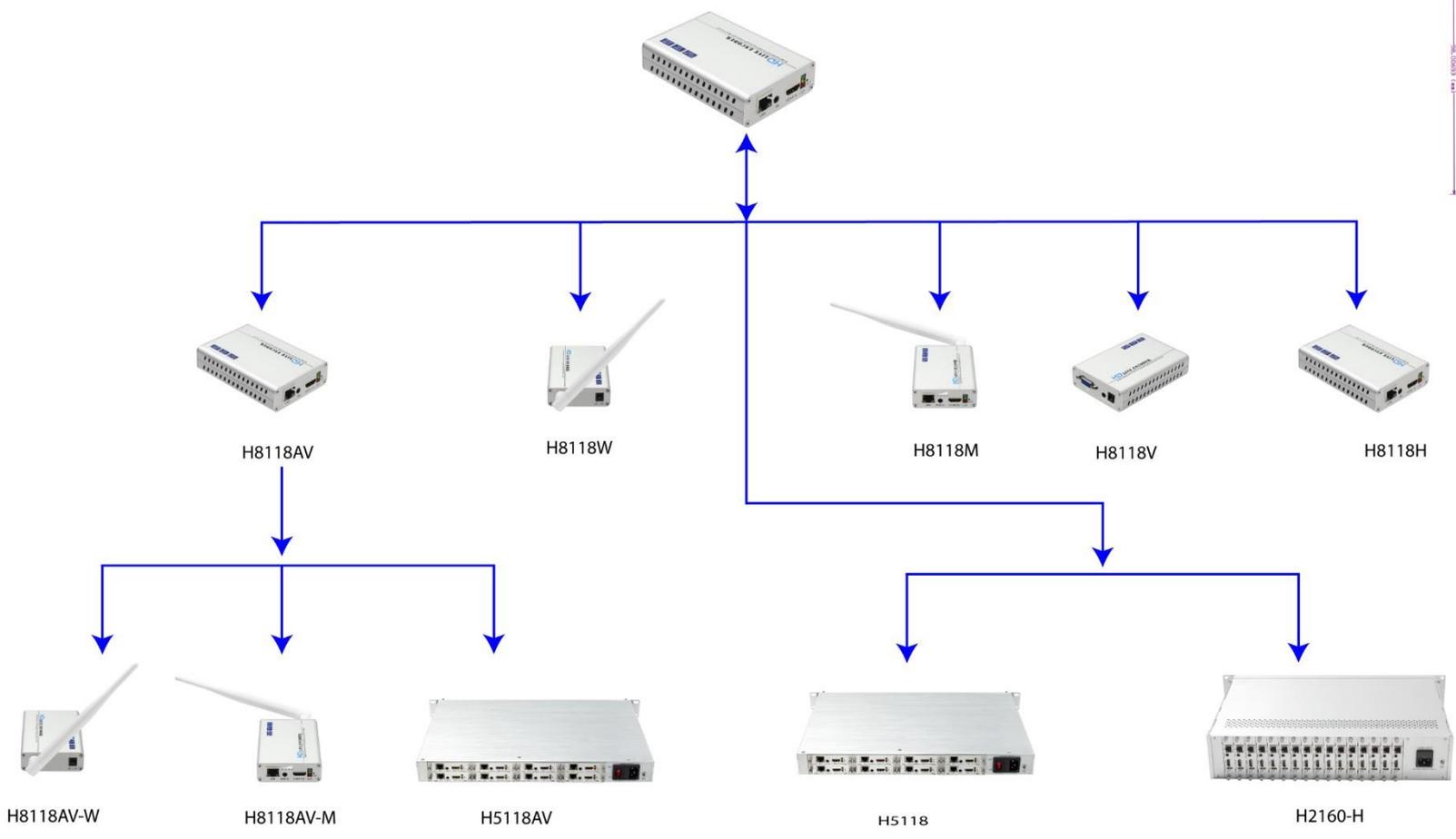
For to meet the 24/7/365 workflow, we made 1RU/ 2RU/ 3RU design for this scenario, stable power supply, easy maintenance hot plug design, cooling system based on ventilation hole and silent fans



H8118 series, HEVC H.265



PCB SIZE SMALL



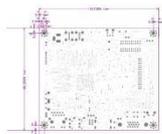
Models	Functions
H8118	H.265 HDMI
H8118W	H.265 HDMI+ WIFI
H8118M	H.265 HDMI+ WIFI+ Battery
H8118AV	H265 HDMI+ CVBS
H8118AV-W	H.265 HDMI+ CVBS+ WIFI

Models	Functions
H8118V	H.265 HDMI+ CVBS+ VGA+ YPBPR
H8118H	H.265 HDMI LOOP THROUGH
H8118AV-W	H.265+ CVBS+ WIFI+ battery
H8118AV-M	H.265 HDMI+ CVBS+ WiFi+ battery

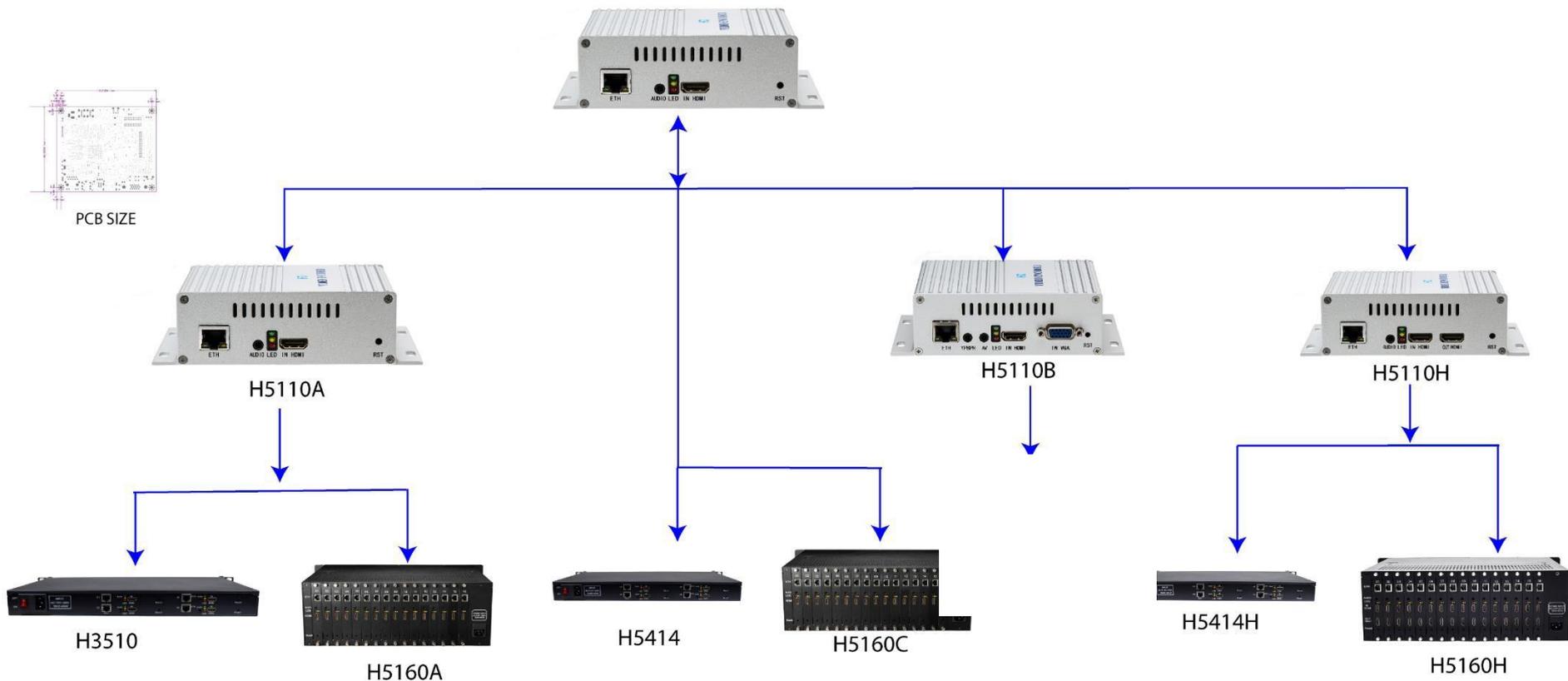
Models	Functions
H5118	8 X H.265 HDMI
H5118AV	8 X H.265 HDMI+ CVBS
H2160-H	16 X H.265 HDMI



H5110 series, HEVC H.265 & AVC H.264



PCB SIZE



Models	Functions
H5110C	H.264 HDMI
H5414	4 X H5110 In 1RU Chassis
H5160C	16 X H5110 In 1RU Chassis
H5110A	1 X HDMI+ CVBS
H3510	4 X H5110A In 1RU Chassis
H5160A	16X H5110A In 3RU Chassis

Models	Functions
H5110H	H5110 HDMI loop through
H5414H	4 X H5110 In 1RU Chassis
H5160H	16 X H5110 In 3RU Chassis



CORAL HEH HDMI ENCODER



NDI[®]HX^①

Compatible with NDI HX



4*2 RTMP/S output simultaneously



Audio mixing



IEEE 802.3 af

OSD

Text Scrolling



4x Streams output



Loop through

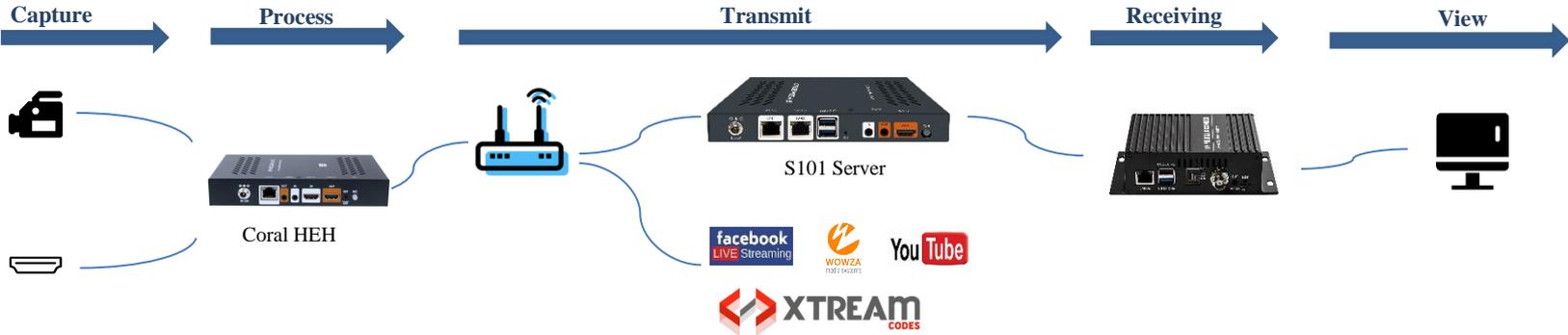


USB W&R

The Coral HEH encoder is the embedded hardware for point to point interactive transmission solution, emergency communication, streaming and recording solutions for Education, defense, military, marine, city hall etc.

The encoder can be acted as an Encoder or a decoder; HTTP/ HLS/ RTSP/ RTMP/ UDP Unicast Multicast/ ONVIF/ RTP/ *P-P/ SRT/ *NDI can be output, the HDMI port will be acted as HDMI loop under Encoding mode.

The encoder supports 4*2 RTMP/s output, and 4* HTTP RTSP UDP NDI RTP SRT output.



H8114 8115 series (MINI)



H8114 series



H8115 series



H3610 H5610B Series (Portable)



H3610 series



H5610B series

AVC



HEVC



About the H8114/ 8115, H3610/ 5610B 3G/ HD/ SD- SDI encoders

The SDI series are high embedded hardware for video over IP required scenario like IPTV, video wall, Video streaming, live broadcasting, online education, distance medicare etc

The SDI series encoder are based on the H8114/8115, H3610/5610B high embedded PCB board, it allowed to receive the video from HDMI (alternative HDMI/ CVBS/ VGA/ ypbpr based on each different design) sources, and line in audio from 3.5mm composite Jack(active sources required), then send the streams over IP protocol like RTSP over UDP & TCP/ RTMP/ HTTP/ UDP Unicast Multicast/ ONVIF/ RTP/ HLS, Haiwei proprietary protocol (P-P) available as optional, if special network protocol customization please consult Haiwei.

With high performance processor and years of experience in video processing industry, the encoders are available to receive the signal from SDI sources (up to 1080 60); then stably stream (push/ pull, support 1080P 30/60FPS (default 30FPS) out) to video platforms like YouTube, facebook, twitch, wowza, vmix, OBS....

Smart encoding- The function for smooth stream/ bitrate, with this arithmetic, the encoder will automatically detect the video fluctuation, then automatically modify the video bit and to make sure the video quality and completeness

Key features

Abundant Internet protocol

RTMP/ HTTP/ HLS/ RTSP over TCP or UDP/ RTP/ UDP Unicast Multicast/ ONVIF (optimal SRT/ P-P/ RTMPS), we support OEM proprietary protocol to the system, email us to get quotes

Advanced smooth bitrate encoding

The function for smooth stream/ bitrate, with this arithmetic, the encoder will automatically detect the video fluctuation, then automatically modify the video bit to make sure the video quality and completeness.

AVC & HEVC compression

For all of the HEVC encoder from HAIWEI, it will support both H.265 (MAIN profile) And H.264 (HIGH/ MAIN/ BASELINE profile), based on the years of experience in video processing industry, haiwei enabled good video quality under low bit such as 800 kb/s for 720, 1500 for HEVC.

Point to point transmission

For all the product that assembled P-P module (to enable LiveX over Internet, also HAIWEI proprietary protocol), we have exclusive decoder for to get the stream from the P-P encoder that enabling at anywhere without any third-party server!

Indoor/ outdoor live streaming

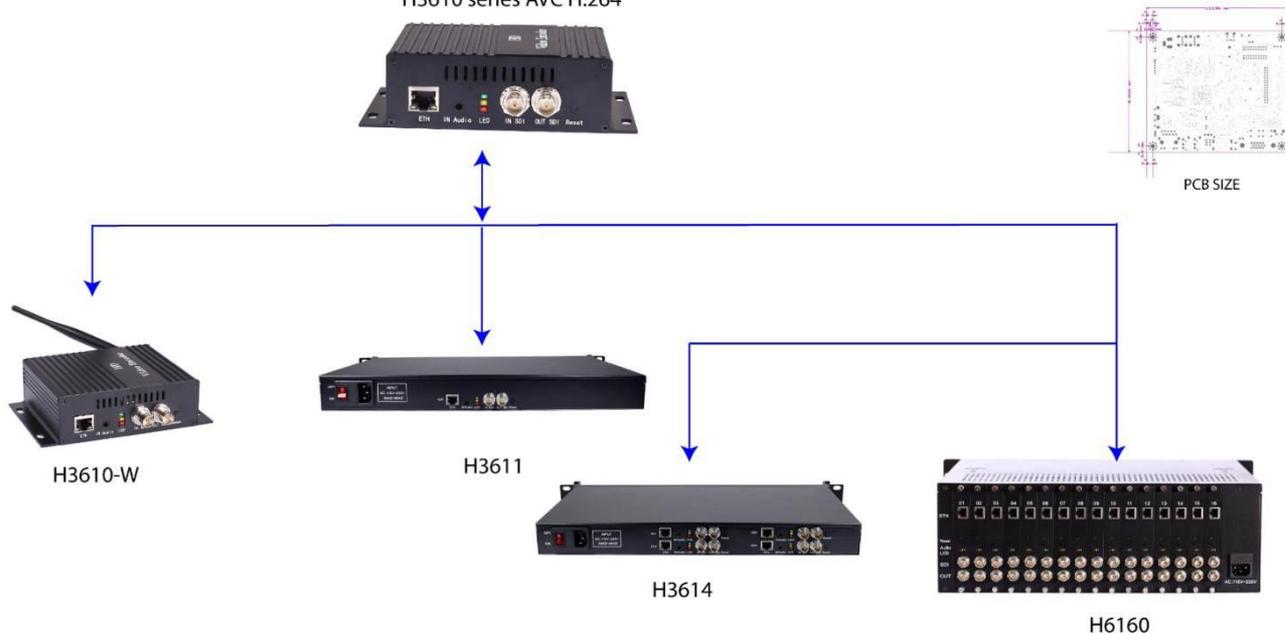
The design is for indoor live streaming/ broadcasting solution, for outdoor scenario, we made WiFi+ battery version. It is mini sized product that can be easily installed to any camera via hot shoe slot. meanwhile, you can easily control everything about the encoder via phone app- LiveX, don't need any computer to manage the stream/ parameters!

Enhanced IPTV design

For to meet the 24/7/365 workflow, we made 1RU/ 2RU/ 3RU design for this scenario, stable power supply, easy maintenance hot plug design, cooling system based on ventilation hole and silent fans

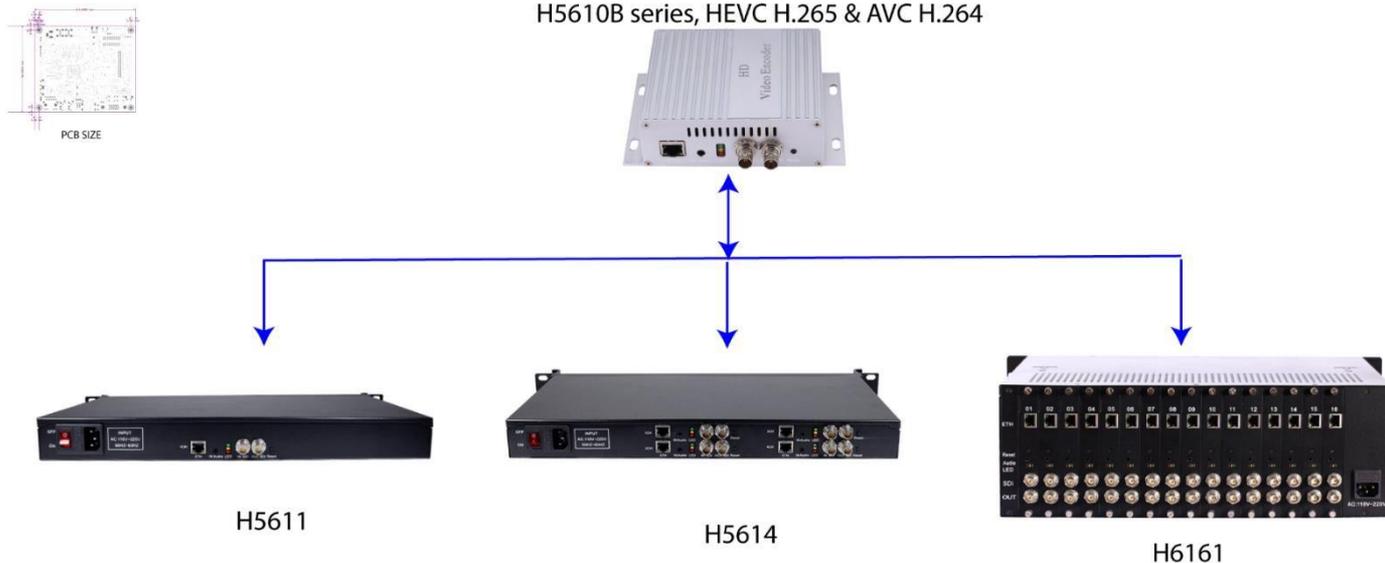


H3610 series AVC H.264



Models	Functions
H3610	H.264 SDI
H3610 W	H.264 SDI+ WIFI
H3611	H3610 In 1RU Chassis
H3614	4 X H3610 In 1RU Chassis
H6160	16 X H3610 In 3RU Chassis

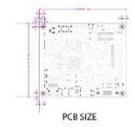
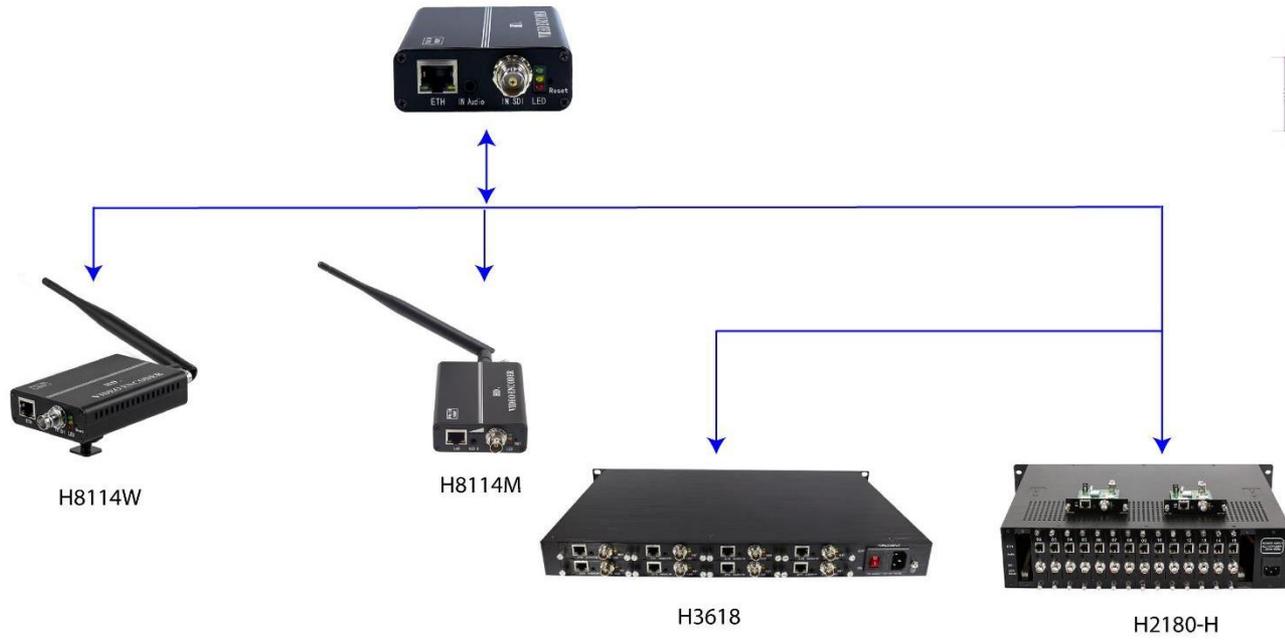
H5610B series, HEVC H.265 & AVC H.264



Models	Functions
H5610B	H.265 SDI
H5611	H5610B In 1RU Chassis
H5614	4 X H5610B In 1RU Chassis
H6161	16 X H5610B In 3RU Chassis

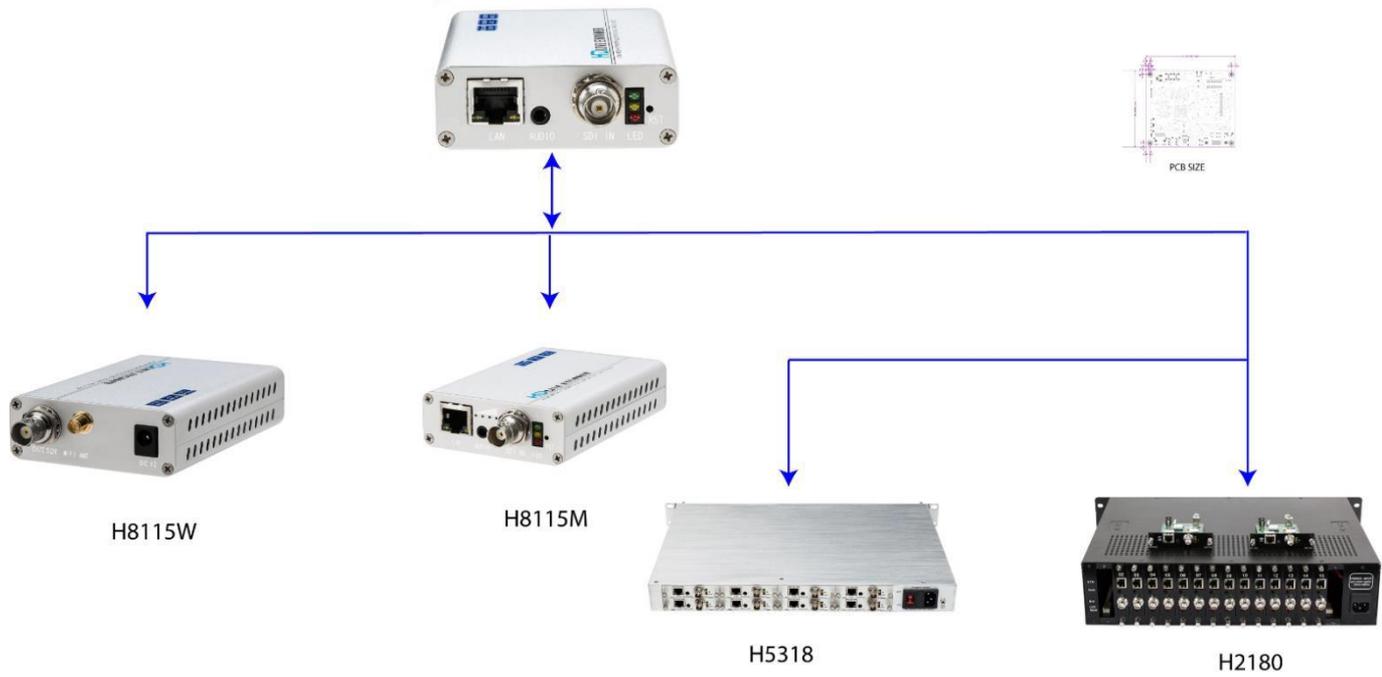


H8114 series AVC H.264 SDI Encoder



Models	Functions
H8114	H.264 SDI
H8114W	H.264 SDI+ WIFI
H8114M	H.264 SDI+ WIFI+ Battery
H3618	8* H8114 in 1RU chassis
H2180-H	16* H8114 in 1RU chassis

H8115 series HEVC H.265 SDI Encoder



Models	Functions
H8115	H.265 SDI
H8115W	H.265 SDI+ WIFI
H8115M	H.265 SDI+ WIFI+ Battery
H5318	8* H8115 in 1RU chassis
H2180	16* H8115 in 1RU chassis



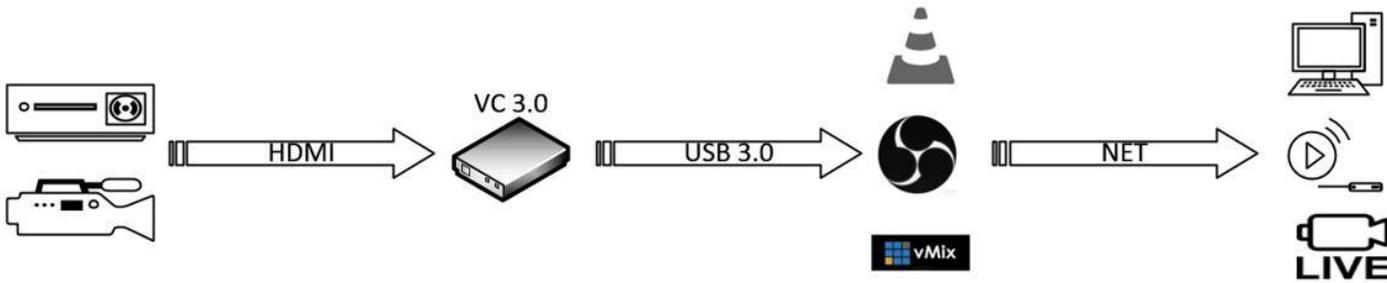
HDMI To USB 3.0 Video Converter

Driverless

Hot-plug

Portable

VC3.0



Key features

VC 3.0 capture box allows delivering UHD HDMI video directly to computer over USB 3.0/ 2.0 interface and output up to 1920* 1080 60FPS feed without any driver requirements.

Order Info	USB	Output
VC3.0	USB 3.0	Up to 1080@60
VC2.0	USB 3.0	Up to 1080@30





HSC-S1



HSC-R104



HSC-R116 (3RU)

About the HSC series codec

The HSC products (Haiwei SynCodec) are the embedded hardware for point to point interactive transmission solution (like video conference), emergency communication, can be used as IP transcoder also.

The HSC allows to receive the stream from other side, then output via HDMI/ 3.5mm composite Jack, meanwhile, able to send the streams via a series of IP protocol like RTSP over UDP & TCP/ RTMP/ HTTP/ UDP /unicast/ Multicast/ ONVIF/ P-P (Haiwei proprietary protocol).

With Haiwei Powerd proprietary protocol, the HSC supports directly receive the stream from another Haiwei P-P devices in another network, even another country on the planet.

New technology-SDK decoding, one click to call the SDK for local network transmission, don't need to transmit over server like P-P solution, ultra low latency will available then.

Transcoding

To use transcoding function, just select transcoder function, then configure everything about output in "HDMI MAIN/ 2ND"

PiP

This is picture in picture function, so if you need this function, just enable PiP function in "encode+ decode function" and adjust the size or everything about the main and 2nd video.

Key features

Abundant Internet protocol

RTMP/ HTTP/ HLS/ RTSP over TCP or UDP/ RTP/ UDP Unicast Multicast/ ONVIF (optimal SRT/ P-P/ RTMPS), we support OEM proprietary protocol to the system, email us to get quotes

Advanced smooth bitrate encoding

The function for smooth stream/ bitrate, with this arithmetic, the encoder will automatically detect the video fluctuation, then automatically modify the video bit to make sure the video quality and completeness.

AVC & HEVC compression

For all of the HEVC encoder from HAIWEI, it will support both H.265 (MAIN profile) And H.264 (HIGH/ MAIN/ BASELINE profile), based on the years of experience in video processing industry, haiwei enabled good video quality under low bit such as 800 kb/s for 720, 1500 for HEVC.

Point to point transmission

For all the product that assembled P-P module (to enable LiveX over Internet, also HAIWEI proprietary protocol), we have exclusive decoder for to get the stream from the P-P encoder that enabling at anywhere without any third-party server!

Indoor live streaming

The design is for indoor live streaming/ broadcasting/ transcoding solution, it enables 1 gigabit Ethernet (LAN port) to transmit the stream in five different mode.

- 1 Encode only; if use this mode, input will be HDMI input only and IP out only.
- 2 Decode only; if use this mode, HDMI input will be disabled.
- 3 Encode+ loop; if use this mode, HDMI input and HDMI output port will loop the inputting source.
4. Encode+ Decode; if use this mode, both HDMI and IP input will works, PiP (picture in picture) will be available then.
- 5- Transcode; if use this mode, the HSC will transcode the inputting IP source and output in another IP.

Enhanced IPTV design

For to meet the 24/7/365 workflow, we made 1RU/ 2RU/ 3RU design for this scenario, stable power supply, easy maintenance hot plug design, cooling system based on ventilation hole and silent fans

T1 IP TRANSCODER



Key Industries



Broadcasting



Government



Education



CCTV



Military



Satellite



Operators



Integration

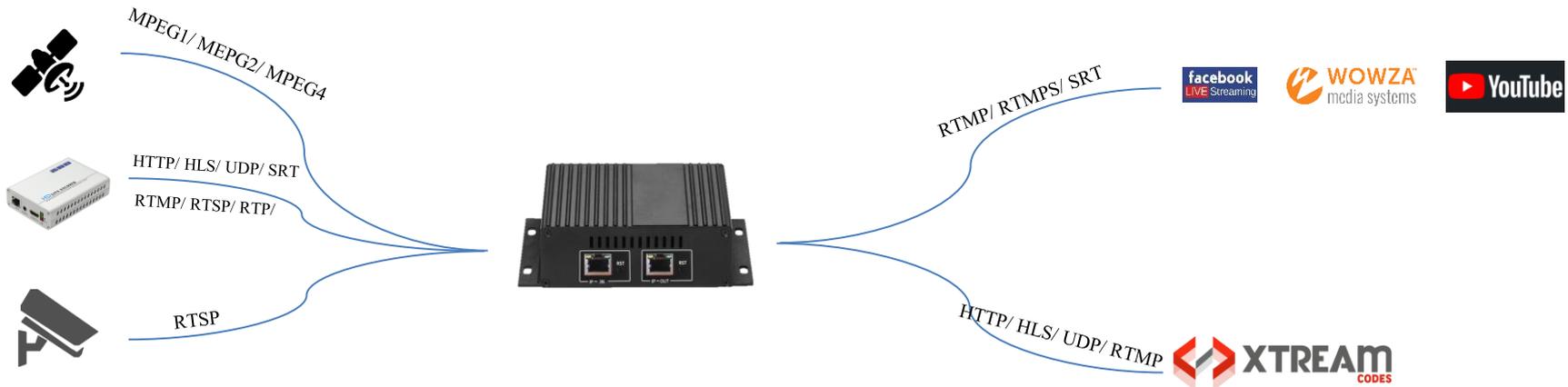
T1 IP Transcoder, a highly integrated hardware that enables transcoding various IP feeds to HEVC/ AVC feeds.

The Gear is designed for scenarios like converse a stream with high bitrate to a lower one or restream an existing one.

The unit supports H.264/ H.265 IP (RTMP/ RTSP/ RTP/ HTTP/ HLS/ UDP/ SRT), MPEG1, MPEG2, MPEG4, P-P, VP8/ VP9/ AVS/ AVS+ input, and output RTMP/ RTSP/ RTP/ HTTP/ HLS/ UDP/ SRT over an 1Gb port. MPTS or SPTS video sources are embraced for the transcoder while there is only one channel video is supported when output HEVC/ AVC feeds.

B Frame video, MPTS supported.

1/ 4/ 16 channels version are available.



IP MEDIA LIVE

VIDEO & AUDIO



- AVC& HEVC Streaming; Standard H.264 and H.265 supported for different scenarios
- Mixing 2* HDMI and 8* 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

Model: H2

Input

HDMI- H2- Up to 4K@30; HSC-S1- 1080@60
3.5MM line-in Jack for audio

IP- HSC-S1- Up to 2 IP in
H2- Up to 8 IP in

Output

HDMI- Loop through
Decoding- RTSP/ RTMP/ UDP/ HTTP/ SDK/ HLS/ P-P

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

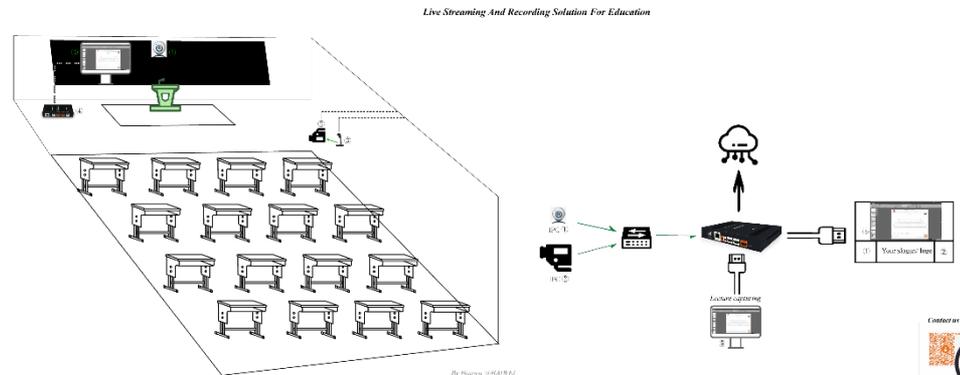
Encoded Resolution:
1- **HSC-S1- Up to 1080P, H2 4K@30**
2 Manually set up
3 Under Transcoding and Mixing
up to 1080P@60

mode support

USB- HSC-S1- Nay; H2- USB 3.0

The HSC-S1/ H2 encoders are 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 2 or 8 streams (RTSP, HTTP, HLS, RTMP, RTP, UDP, RTP) and mixing along with 1/ 2 channel 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).



Order information	IP	HDMI	Encoded Resolution
HSC-S1	2* IP In	1*	1080P
H2	8* IP In	2*	2* 4K

Contact us



Extended solutions

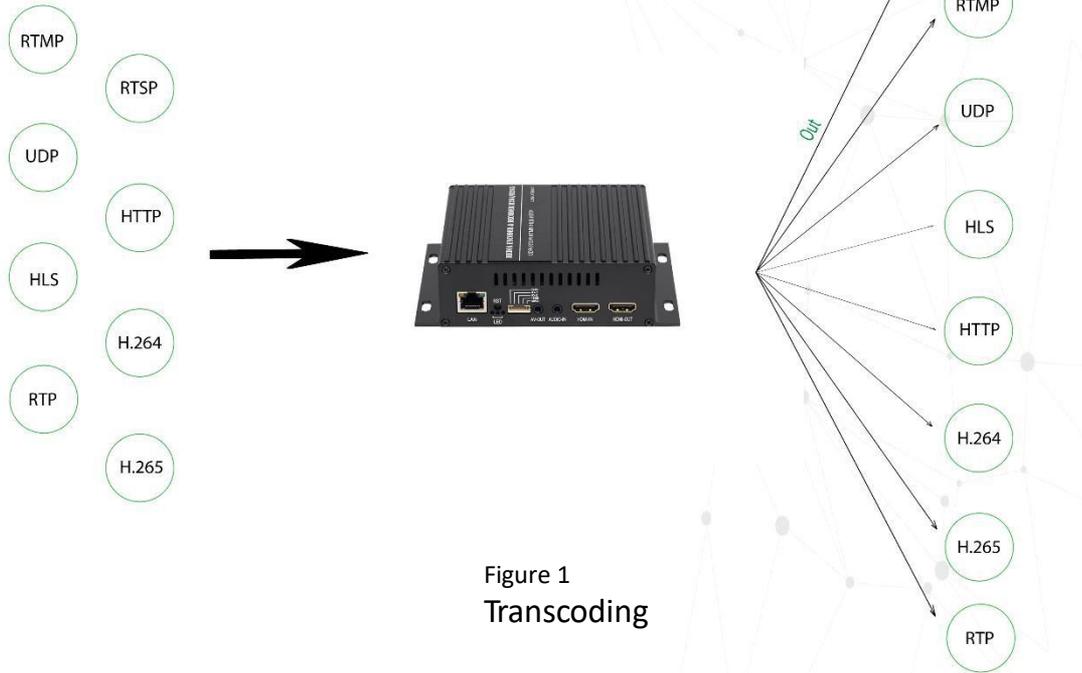


Figure 1
Transcoding



Streaming hardware packages



10% OFF



Figure 2
Interactive communication





U10



Y10

About the U/Y 10 codec

The U/Y 10 codec are the embedded hardware for point to point interactive transmission solution, emergency communication, transcoding, broadcasting, live streaming, Recording and streaming

The U/Y10 allowed to receive the stream from other side, then output via HDMI/ BNC/ VGA, meanwhile, able to send the streams via a series of IP protocol like RTSP over UDP & TCP/ RTMP/ HTTP/ UDP /Unicast/ Multicast/ ONVIF/P-P (Haiwei proprietary protocol).

With Haiwei Powerd proprietary protocol, the U/Y 10 supports directly receive the stream from another Haiwei P-P devices in another network, even another country on the planet.

New technology-SDK decoding, one click to call the SDK for local network transmission, don't need to transmit over server like P-P solution, ultra low latency will available then.

Full interface, the U/Y10 support optionally input 1* HDMI (v 1.4)/ CVBS/ VGA/ YPBPR/ DVI-D, and 1* SDI (3G/ HD/ SD) simultaneously. Abundant accessibilities serial port supported now, including SATA port for storage, I/O, RS232, GND, RS485A/B, TX232, RX232

Key features

Abundant Internet protocol

RTMP/ HTTP/ HLS/ RTSP over TCP or UDP/ RTP/ UDP Unicast Multicast/ ONVIF (optimal SRT/ P-P/ RTMPS), we support OEM proprietary protocol to the system, email us to get quotes

Advanced smooth bitrate encoding

The function for smooth stream/ bitrate, with this arithmetic, the encoder will automatically detect the video fluctuation, then automatically modify the video bit to make sure the video quality and completeness.

AVC & HEVC compression

For all of the HEVC encoder from HAIWEI, it will support both H.265 (MAIN profile) And H.264 (HIGH/ MAIN/ BASELINE profile), based on the years of experience in video processing industry, haiwei enabled good video quality under low bit such as 800 kb/s for 720, 1500 for HEVC.

Point to point transmission

For all the product that assembled P-P module (to enable LiveX over Internet, also HAIWEI proprietary protocol), we have exclusive decoder for to get the stream from the P-P encoder that enabling at anywhere without any third-party server!

Indoor live streaming

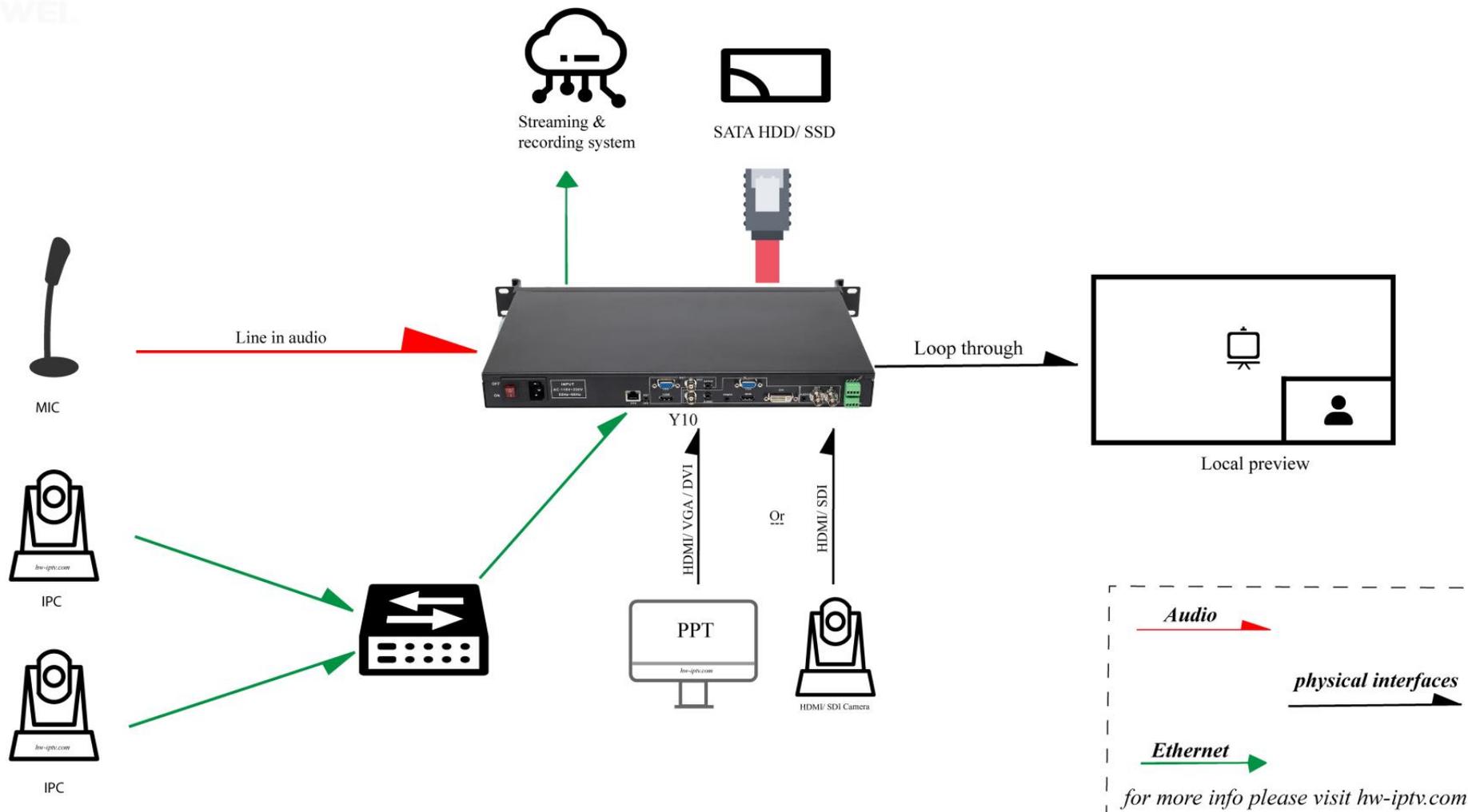
The design is for indoor live streaming/ broadcasting/ transcoding solution, it enables 1 gigabit Ethernet (LAN port) to transmit the stream in five different mode.

- 1 Encode only; if use this mode, input will be HDMI input only and IP out only.
- 2 Decode only; if use this mode, HDMI input will be disabled.
- 3 Encode+ loop; if use this mode, HDMI input and HDMI output port will loop the inputting source.
4. Encode+ Decode; if use this mode, both HDMI and IP input will works, PiP (picture in picture) will be available then.
- 5- Transcode; if use this mode, the HSC will transcode the inputting IP source and output in another IP.

Enhanced 24/7/365 design

For to meet the 24/7/365 workflow, we made 1RU design for this scenario, stable power supply, easy maintenance hot plug design, cooling system based on ventilation hole and silent fans

AIWEL





H3104AV



H3404B (4* BNC)



H3408AV (8* CVBS)



H5618AV (16* CVBS)

Key features

Product model	CVBS Encoders	
Input	4/ 8/16-ports CVBS (female) input	
Output	IP output (MPEG 4 H.264)	
Video	Input resolution	960*576i/960*480i/720*576i / 640*480i (NTSC/PAL)
	Coding standard	H.264
	Encoding level	H.264 BASELINE PROFILE H.264 MAIN PROFILE H.264 HIGH PROFILE
	Encoded size	Up to 960*576i 30FPS
	Video bit rate	Rate control: CBR/VBR, 16KBIT/S~12MBIT/S
	Video frame rate	5-30
	OSD	Text, image
Audio	Input	CVBS audio/ Line in audio
	Audio coding	AAC/MP3/G711
	Audio bit rate	64Kb/s~384Kb/s
	Sampling rate	32000、44100 etc
IP Output	Gigabyte adaptive Ethernet port. Dual-bit out. ONVIF/TCP/UDP	
System	Network protocol	HTTP, RTSP, RTMP, HLS, UDP, Multicast, Unicast
	Configuration management	IE configuration, remote upgrade, APP
All right reserves at Shenzhen Haiwei vision technology		





Encoding scheme
 HEVC H.265 MPEG-H Part 2
 AVC H.264 MPEG-4
Profile
 H.265 Main profile
 H.264 high/ main/ baseline profile

Network
 1* RJ45 Gigabyte full-duplex network.
 DHCP can be enabled by default.

Management
 HTTP WEB GUI (80/ 90);
 Haiwei video management platform;
 LiveX for Phone; Telnet, API. SDK
 Customized tools.

Input
 Up to 1080P 60 (Minimum 320*180),
 3.5MM line-in audio
Output
 HTTP/ HLS/ RTSP over UDP TCP/ RTMP/
 UDP Unicast Multicast/ ONVIF/ RTP, RTMPS
Encoded resolution:
 320*180 to 1080P 30FPS

Accessibilities
 Video package: VLC/ FFMPEG
 Stream information rename (PMT/ transport ID/
 Stream ID)
 Image adapt (Noise/ Sharpe/ filter/ contrast/ Bri/Hue)

Sensor
 2 megapixel 1/3 Ultra Low light CMOS sensor
 2.13M effective pixel

Bitrates
 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/ MP2 (optional)

Accessories
 1*V1, 1* warranty card.
 1* power adapter, 2 * audio cable (3.5MM)

Others
 Dimension: 110* 50*45
 Working temperature: -20°C to 60 °C
 Working humidity: <90%
 Net weight: 0.2 KG Power:
 12V 2A Consumption: 2.8
 W

About the IPC

The V1 FHD IP camera is highly embedded hardware, including a high performance H.265 Encoding module that allowed to transmit UP to 1080P30 video over IP- HTTP/ RTSP over UDP-TCP/ RTMP (Push/ pull)/ UDP/ RTP/ HLS/ ONVIF/ P-P.

The IPC's stream compatible with main stream platform like Vmix, OBS, YouTube, Facebook, Wowza... ..



For church live streaming& recording



Live events



Tele-education/ e-learning



Live wedding



Driverless Car



CCTV

Vision On 4K

H.264/ H.265 IP (RTMP/ RTSP/ RTP/ HTTP/ HLS/ UDP/ SRT), MPEG1, MPEG2, MPEG4, SL hyperlink (P-P), VP8/ VP9/ AVS/ AVS+

DECODER



Key features

Abundant Internet protocol

H.264/ 265 IP (RTMP/ RTSP/ RTP/ HTTP/ HLS/ UDP), MPEG1, MPEG2, MPEG4, SL hyperlink (p-p), VP8/ VP9/ AVS/ AVS+ input

Point to point transmission

For all the product that assembled P-P module (to enable LiveX over Internet, also HAIWEI proprietary protocol), we have exclusive decoder for to get the stream from the P-P encoder that enabling at anywhere without any third-party server!

Enhanced 24/7/365 design

For to meet the 24/7/365 workflow, we made 1RU design for this scenario, stable power supply, easy maintenance hot plug design, cooling system based on ventilation hole and silent fans

Real UHD output

The decoder supports many different output resolution its up to 4096*2160 30, here is the listing of the resolutions 4096*2160 30/25/24, 3840*2160 30/25/24, 1080P 60/50/ 30/ 25/ 24, 1080I 60/50, 720P 60/50/25/ 24, 576P 50

Useful P-P/ SDK decoding

The decoder supports directly receive the signal from the HAIWEI P-P encoder and general HAIWEI encoder (P-P can be over Internet, SDK is for intranet use) , if enable the P-P decoding, the decoder will receive the P-P stream from the HAIWEI P-P Encoder at anywhere, any network, it doesn't required any third party server;

SDK decoding is the function for HAIWEI encoders only, the function enables to transmit the video over intranet in ultra low latency, based on the function, amazing video conference solution can be achieved!

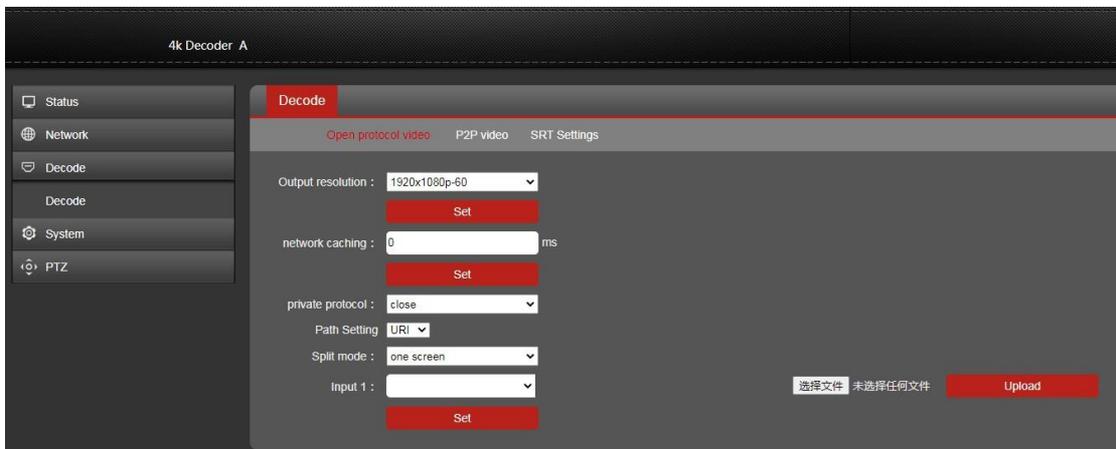
About the H9110D series decoder

The IP decoders allow H.264/ H.265 IP (RTMP/ RTSP/ RTP/ HTTP/ HLS/ UDP/ SRT), MPEG1, MPEG2, MPEG4, SL hyperlink (P-P), VP8/ VP9/ AVS/ AVS+ decoding, and then output through HDMI & BNC (analog), 3.5mm audio Jack/ CVBS. It supports 4096*2160 30, 1080 P/I@ 60, meanwhile, RS485 supported (I&O- input and output)

Use cases

IP Decoding
SRT
Transmission

P-P Decoding
CCTV Decoding
4K screening



UI



FPGA Architecture **S9110D** IP TO SDI DECODER

MPEG1, MPEG2, MPEG4, SL hyperlink (P-P),
VP8/VP9/ AVS/ AVS+ decoding

RTMP | RTSP | RTP | HTTP | HLS | UDP | SRT



New FPGA architecture based high performance decoder enables vividly high quality video output over an SDI connector (SD/ HD/ 3G).

DECODER

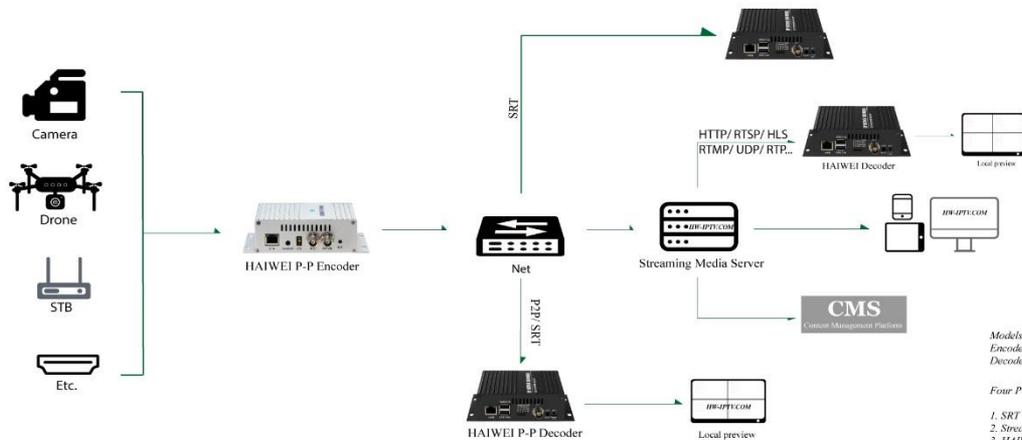
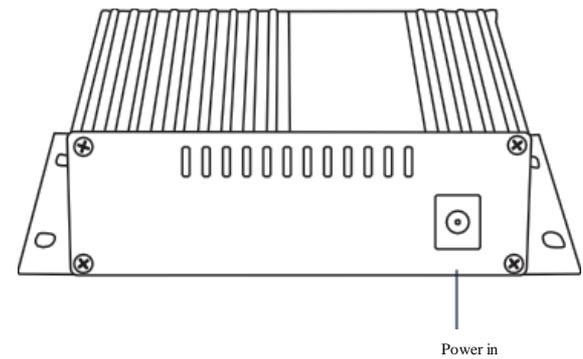
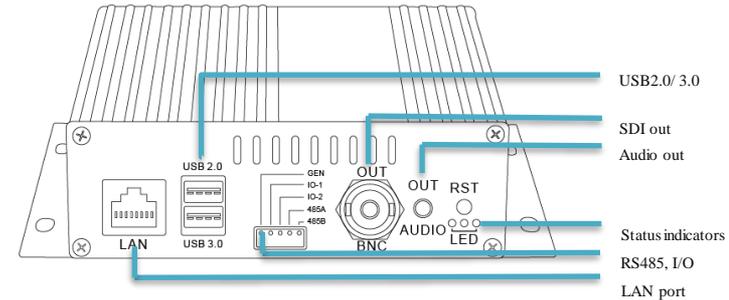
About the H9110D series decoder

The S9110D based decoders were designed for H.264/ H.265 IP (RTMP/ RTSP/ RTP/ HTTP/ HLS/ UDP/ SRT), MPEG1, MPEG2, MPEG4, SL hyperlink (P-P), VP8/ VP9/ AVS/ AVS+ decoding

New FPGA architecture based high performance decoder enables vividly high quality video output over an SDI connector (SD/ HD/ 3G)

Use cases

- IP Decoding
- SRT Transmission
- P-P Decoding
- Broadcasting



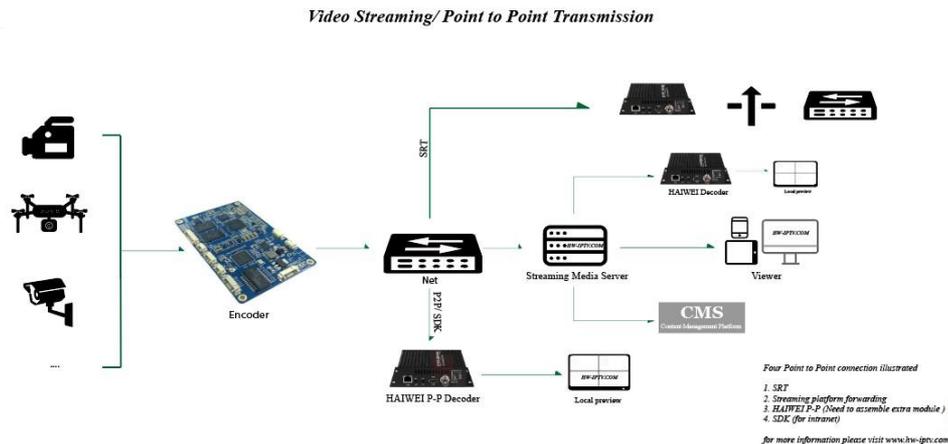
Models referred:
Encoder: H264/H265 SDI Encoder
Decoder: S9110D IP To SDI Decoder

Four Point to Point connections illustrated

1. SRT
2. Streaming platform forwarding
3. HAIWEI P-P
4. SDK (for intranet)

for more information please visit www.hw-iptv.com





The K4 AHD Encoder is a highly embedded AHD to IP encoder (Grabber/ converter), it is designed for CCTV/ CATV/ video surveillance industry.

It allowed to receive the FHD video from AHD sources, and line in audio from 3.5mm composite Jack(active sources required), then send the streams over IP protocol like RTSP over UDP & TCP/ RTMP/ HTTP/ UDP Unicast Multicast/ ONVIF/ RTP/ HLS, Haiwei proprietary protocol, P-P available as optional, if special network protocol customization please consult Haiwei.

With high performance processor and years of experience in video processing industry, the encoders are available to receive the signal from AHD sources (up to 1080 60); then stably stream (push/ pull, support 1080P 30/60FPS (default 30FPS) out) to video platforms like YouTube,facebook, twitch, wowza, vmix, OBS....

Smart encoding- The function for smooth stream/ bitrate, with this arithmetic, the encoder will automatically detect the video fluctuation, then automatically modify the video bit and to make sure the video quality and completeness

Input

Up to 4 x 1080P 30 (Minimum 320*180),
4x 3.5MM line-in audio

Output

4x HTTP/ HLS/ RTSP over UDP TCP/ RTMP/
UDP Unicast Multicast/ ONVIF/ RTP

Encoded resolution:

1920x1080p @ 30/ 25/ 1280x720p etc.

Encoding scheme

HEVC MPEG-H/ AVC H.264 MPEG-4
Profile
H.265 main. H.264 high/ main/ baseline profile





*Visualized Status / RTMP Streaming
Easy Restreaming / ONVIF Devices scanner*

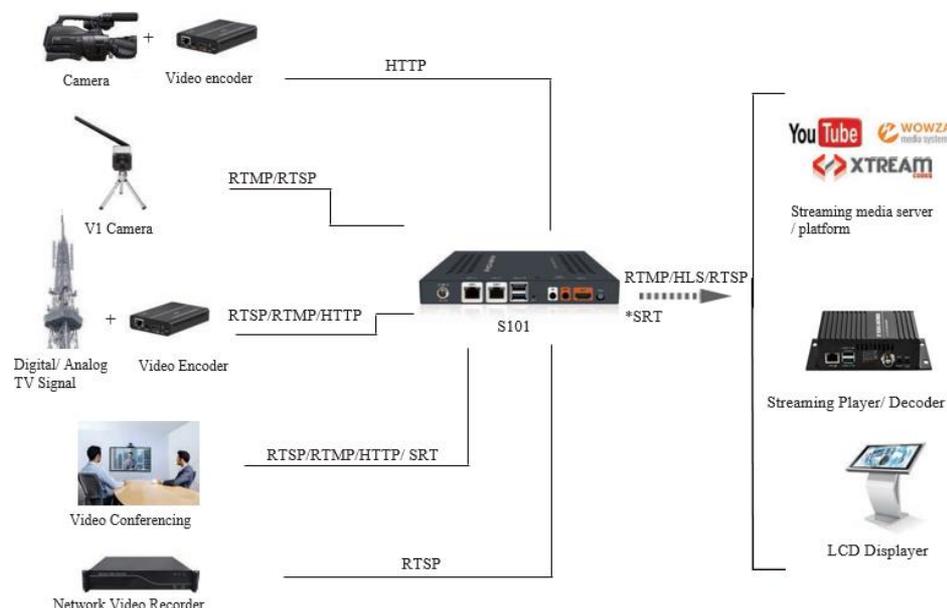
Features

- ◆ An easy to use and remote configuration supported hardware powered by Linux system
- ◆ High efficiency and low latency achieved by embedded DSP hardware architecture
- ◆ 50-ch RTSP To RTMP transcoding supported
- ◆ HLS/ RTSP/ RTMP/ HTTP/ RTP/ SRT input
- ◆ RTMP/ HLS/ UDP/ RTSP push Output
- ◆ Compatible with mainstream video streaming platform such as Youtube, Xstream code, Wowza and so forth
- ◆ The ONVIF devices and their accessible address can be loaded by searching it under intranet.

About the S-101

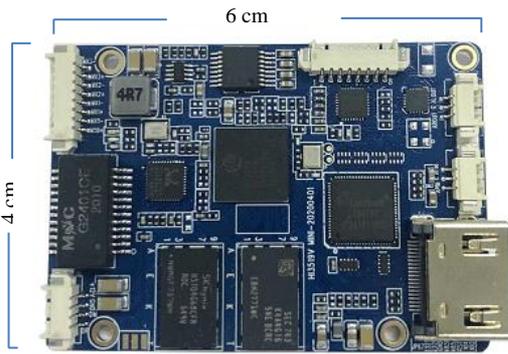
The S-101 is a high-performance, high-reliability streaming media server that granted the capability of 2Gbps data processing and multi-protocol and multi-format video stream forwarding by the latest ARM architecture; it is a Low-cost solution for various streaming media distribution required scenarios like City hall, Campus, Remote Teaching, CCTV, Video conference and so forth.

The streaming media server allowed receiving RTMP feeds from anywhere and output HLS, or restream different feeds (from RTSP, RTMP, HTTP, SRT to RTMP out), Can be used under intranet or over internet without port forwarding one by one while the DDNS technology* is integrated.

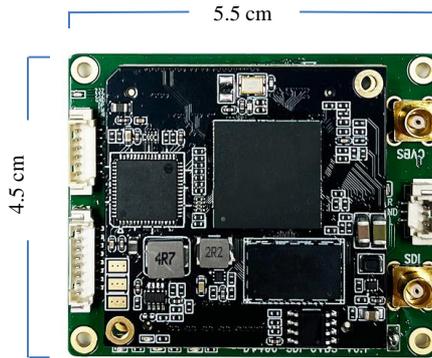


_ means in planning





K6



K7

K6 / K7 Ultra Mini Encoders, are compact and highly embedded hardware encoder for integration required scenarios like Military, Emergency communication, Measurement, Defense and so forth.

We deeply understand what does the dimension and the performance mean for the system integration, K6/K7 were the offspring of this idea. We sized it mini and used a high performance chipset for the encoder board to make 1080P@60 input and output possible while we remained pin for the most of interfaces, such as rs485, power, IO, GND, and LAN port.

It allows delivering FHD HDMI video and output an IP signal over 1G port for K6, 100MB port for the K7, RTSP over UDP & TCP/ RTMP/ HTTP/UDP Unicast Multicast/ ONVIF/ RTP/ HLS/ SRT/ RTMPS supported by default, private protocol can be implemented as well.

Key Industries



Broadcasting



Government



Military



Drone



Education



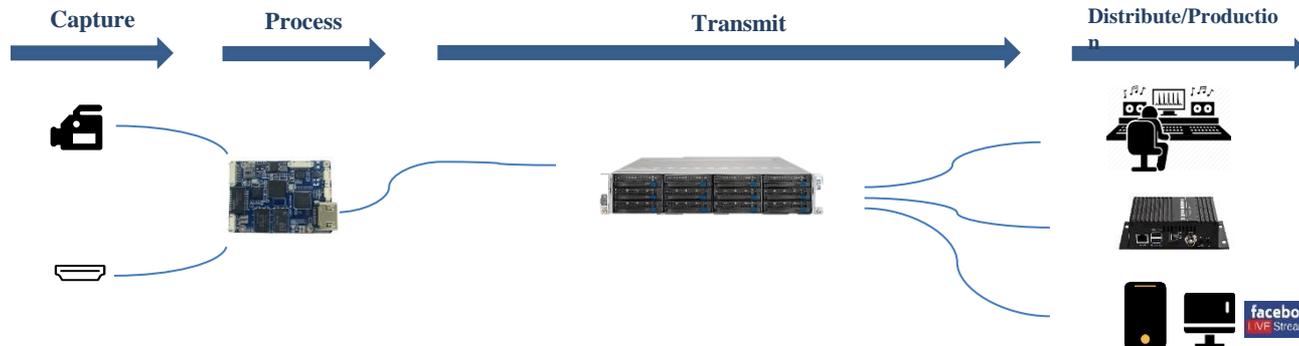
Medicare



Emergency communication



Integration



*_Means in planning



AIoT

4K@60 Decode

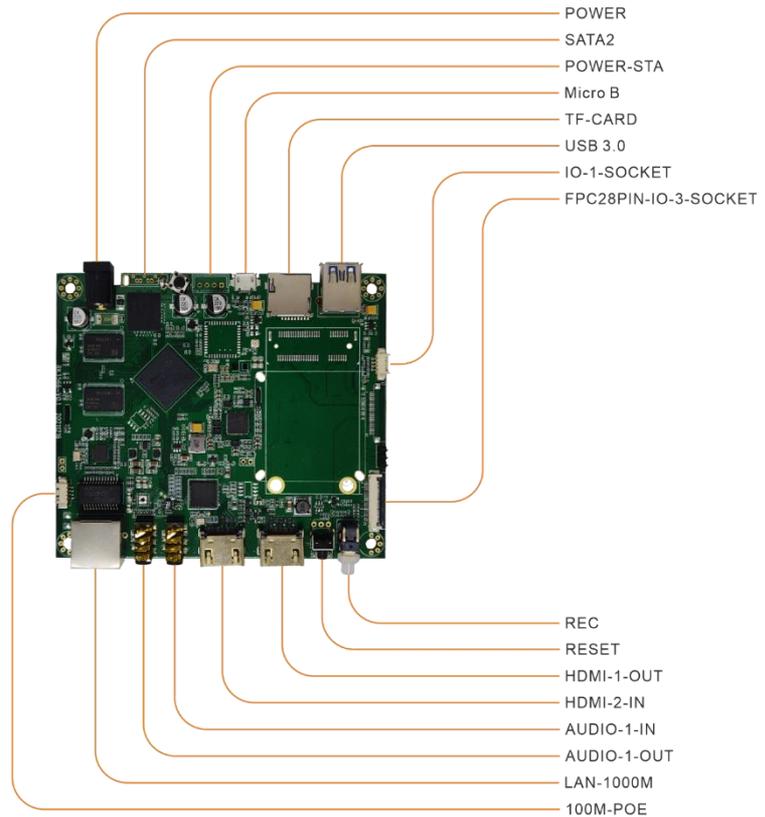
1080P@100 Encode




CPU – 4 cores Arm Cortex-A55 @ 1.8GHz
 GPU – Arm Mali-G52 2EE
 NPU – 0.5 TOPS, INT8 / INT16

Multimedia

3F HDR 8M ISP 2.0
 MIPI-CSI2,4-lane
 1080p60 H.265, H.264 Decoding
 4K H.264 / H.265 / VP9 60fps Decoding
 BT.656 / BT.1120 DVP interface
 RAM – 32bit DDR3L / LPDDR3/ DDR4/ LPDDR4/ LPDDR4X
 Storage – eMMC 4.51, NAND, SFC NOR, SATA 3.0, SDIO SD card



Display

Dual-port output
 MIPI-DSI/ RGB
 LVDS/ eDP/ DP
 HDMI 2.0
 Audio – 2* 8ch I2S, 2* 2ch I2S, PDM, TDM, SPDIF
 Network – 2* RGMII (Gigabit), TSO network acceleration
 USB – USB 2.0 OTG+ USB 2.0 host; USB3.0 host.

PCIe

3* SDIO 3.0, can be use for Wi-Fi and SD card
 6* I2C, 10* UART, 4*SPI, 8* PWM, 2* CAN





LiveX

The application is for to control the encoder from anywhere, any network, by any IOS/ Android device



VMS (Video management software)

The application is for to monitor the encoder, locally record the TS stream etc..



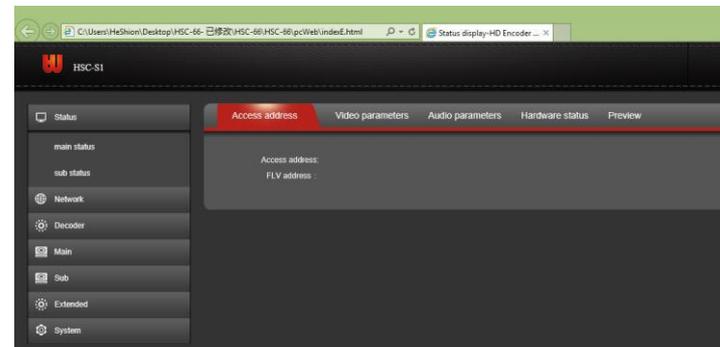
IP Finder

The application is for to scan the IP address of the encoder if DHCP enabled or unknown IP address

We have prepared the video to describe softwares, to check it here @ [YouTube](#)

What can we do for you

I OEM your own web GUI, protocol

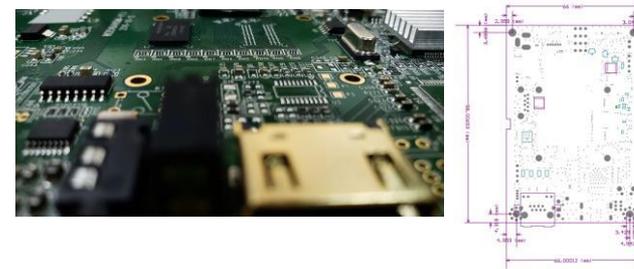


" OEM your own brand

By laser printing your own LOGO/ picture/ text on the shell or completely OEM your own shell based on the PCB boards



III OEM the board/ physical interfaces/ protocols for your workflow



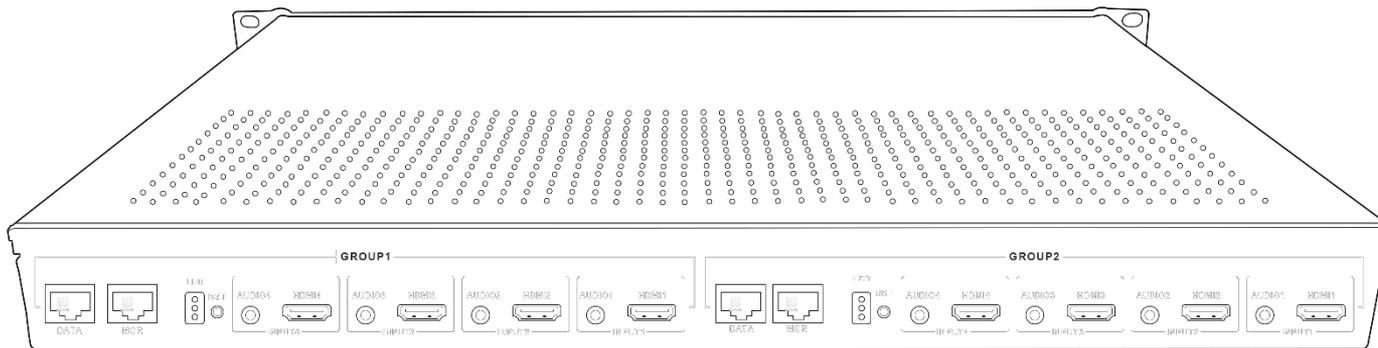
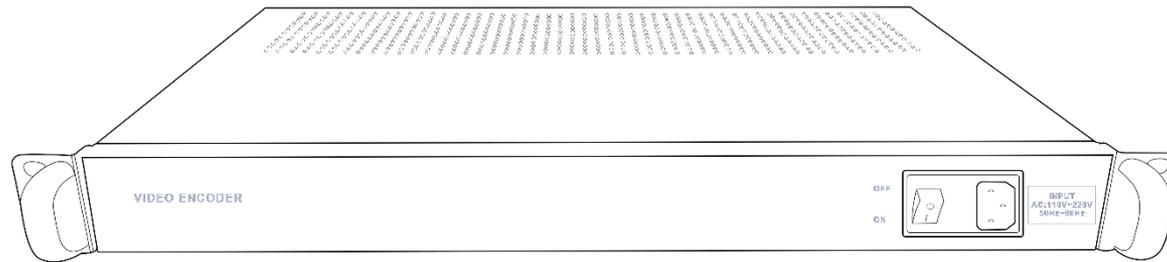
IV Customer service

HAIWEI has its own technical team and design team to help customer analyze the solution for different scenario, its own after sales team to handle each question feedback from customer

V Provide HTTP API/ SDK for to integrate your own application/ system

For more information please consult our team





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