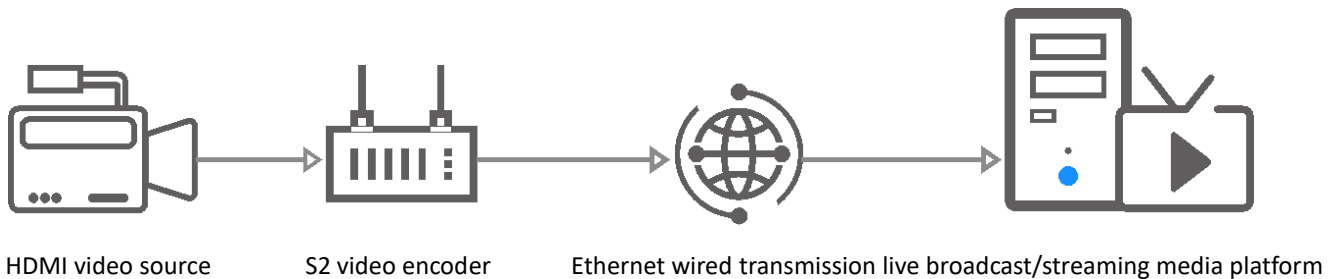# S2 H.265/H.264-HD/4K

Video Encoder

Descriptions

S2 video encoder can encode HDMI video source with H.265 and compress into IP stream (NDI|HX supported), to realize long-distance HD transmission/live broadcast over WAN or LAN. It supports SRT/RTMP/RTMPS/HLS/UDP/RTSP and NDI|HX as well as voice intercom, with more functions video rotation &cropping, text overlay, recording, etc.

- SRT&NDI|HX
- PTZ control
- SDK/API provided

- H.265 HEVC
- Voice intercom
- 7*24h continuous working

- 4KP60
- USB and NAS storage
- Multi-platform live broadcast

Applications

Conference/program/event webcast, video network transmission, video interactive connection point to point, HDMI network transmission/live broadcast, video network recording, portrait live broadcast, etc.

HDMI video source   S2 video encoder   Ethernet wired transmission live broadcast/streaming media platform

Advantages

Both H.265 and H.264 supported to save your bandwidth

●With H.265 HEVC encoding, S2 realizes lower encoding bitrate and save more than 40% bandwidth comparing with H.264;

●Low latency for video transmission.

Real 4K HDMI input for better image quality

●With HDMI2.0 input, S2 supports real 4K P60 HDMI input and loop through and encode up to 4K P30.

Multiple platforms streaming

●H.265 HEVC encoding, support SRT transmission point-to-point and Caller/Listener/Rendezvous transmission modes;

●Dual-stream output (main-stream and sub stream), each stream can be used to up to 8 platforms with the same or different protocols, altogether it can simultaneously live stream to up to 16 platform.

All protocols. All at the same time

●Support RTSP/RTMP/RTMPS/HLS/TS-UDP/Onvif1.1/2.0/ and NDI|HX;

●Live stream with RTMP/RTMPS, while live production with NDI|HX and remote production with SRT, all can be handled at the same time.

●ONVIF 1.1/2.0 for easy access to security protection system /NVR System.

Recording Supported-More than an Encoder

●It supports video recording simultaneous recording while you are doing live streaming by USB or NAS.

Special pre-processing before encoding

●Support video rotation/cropping (such as horizontal screen to vertical screen) ,horizontal mirroring, before encoding.

Analog and intercom supported - More than video

Both HDMI embedded and analog audio encoding supported. With Kiloview voice intercom software, it can realize voice intercom function.

Parameters

Model	S2
Video input	1×HDMI 2.0
Input resolution	Up to 4Kp60
Analog audio interface	1*3.5mm Line in
USB interface	1*USB 2.0 Type-A
Network support	1*RJ45 1000Mbps Ethernet port (with PoE)
Video loop	1×HDMI 2.0
Loop resolution	Up to 4Kp60
Video encoding	Support up to 4Kp30 and deinterlace encoding, details as below 3840x2160P60/24/25/29/30Hz 1920x1080P23/24/25/29/29.97/30/50/59/59.94/60Hz 1920x1080P50/59.94/60Hz;1280x720P59.94/60Hz;1280x1024 60Hz 1024x768 60Hz; 800x600
Video encoding	H.265/H.264
Encoding bitrate	Up to 100Mbps
Audio	HDMI embedded audio and analog audio
Audio encoding	AAC/G.711
Audio sampling	8KHz, 16KHz, 11.025KHz, 22.05KHz, 24KHz, 32KHz, 44.1KHz, 48KHz, 64KHz
Audio encoding bitrate	Up to 512Kbps
Network protocols	SRT/RTP/RTSP/TS-UDP/RTMP/HLS/Onvif 1.1/2.0/NDI|HX
Image and text overlay	Support
PoE	Support
Record storage	USB expansion and NAS network storage
Voice intercom	USB expansion supported
Management	APP/ Web/ IMS remote management
Power supply/consumption	DC 12V 1A/10W
Dimension	140x100x28mm
Operation temperature	-20 ~60°C