

## H.265 SDI Encoder

**Model No: FL-ES4500S**

### Description

4 channel IPTV H.265 SDI Video Encoder is a professional HD audio & video live encoding device with powerful functionality. It supports H.265/H.264 encoding with 4 streams data, and equipped with 4 SDI channels input. It supports H.265/H.264 main profiles video code format and AAC/MP3 audio code format.

Its high integration and cost-effective design make this device widely used in the variety of field such as hotel IPTV system, live streaming broadcast, streaming media server etc. Also, the encoder works with the online live broadcast platform, such as YouTube, Ustream, Twitter, Facebook, etc.

Not only single channel, we also produce multichannel SDI/HDMI video encoder which is packed with 1U /3U box. For 3U rack, support max 16pcs encoder cards to be installed.

### Features

1. Support 4 channel 1080P 60fps SDI video
2. H.265/H.264 main profile video code
3. Support external audio input
4. 4 streams can transmit with different protocols
5. 0.16~32Mbps bit rate adjustable
6. Support MP3/ AAC Advanced Audio Coding format quality
7. Audio support left and right channels, support volume adjustment
8. 1000M network interface uses full duplex mode
9. RTMP/RTMPS/SRT/RTSP/UDP/RTP/HTTP/HLS/FLV/TS/ONVIF protocols
10. WEB Manager, CGI Command
11. Support network remote management and upgrade.
12. Supports mainstream and multi-protocol sub-stream output
13. Support output resolution setting independently
14. Low network delay, less than 200ms



### Application

Internet TV (IPTV) HD capture system, Internet video conference front-end capture, Digital signage HD streaming server, Operation room live broadcast, recording system, Teaching broadcast, recording system, Digital court HD broadcast, recording system, Network monitoring system platform front-end capture

## Specification

Video	
Input interface	4x HD/3G-SDI
Support resolution	1920x1080@60P/50p, 1920x1080@60i/50i/1280x720@60p/50p 720x576i/720x480i
Encoding	H.265 HEVC, H.264/AVC Baseline/Main/High Profile Level 4.2
Video encoding	H.264 Baseline Profile, H.264 Main Profile, H.264 High Profile
Encoding Output FPS	1080P60
Data Rate	0.16Mbps~32Mbps
Rate Control	CBR/VBR
GOP Structure	IBBP
Advanced Pretreatment	De-interlacing, Image Enhancement, Noise Reduction, Sharpening
Latency Time	100ms
Audio	
Input	4xSDI, 2x3.5mm
Encoding	AAC/AAC+/MP3/MP2/AC3/G.711A/U
Sampling rate	44100/48000 Hz
Bit-rate	32K/48K/64K/96K/128K/160K/192K/384K
Sampling precision	24 bit
Network	
RJ45	10M/1000M Ethernet port
Program streaming	HTTP UTP RTSP RTMP HLS FLV UDP unicast/multicast ONVIF
Control Panel	WEB Manager, CGI Command
Firmware Update	Enable by uploading files to the dashboard
General	
Dimension (W×L×H)	230x150x44mm
Packing Box(WxLxH)	300x220x60mm
Net Weight/Gross Weight	0.5kg/1.2kg
Temperature	0-45(work), -20-80(storage)
Power	12V DC 2A
Consumption	15w

