

AUDIO VIDEO SYSTEM

12G SDI Video Encoder

12G-SDI 4K H.265 UHD encoder transcoder can compress 1-channel 12G-SDI, or 2-channel 6G-SDI, or 4-channel 3G/HD/SD-SDI digital video via powerful CPU+GPU cooperative coding module into any of the above mentioned video encoding formats in real time, and can also convert 1-channel 4K IP input stream or 6-channel HD IP input stream or 24-channel SD input stream in real time.



FEATURES

- Standard 1U case, advanced CPU and GPU co-coding and transcoding technology are adopted
- Web-based remote network management software
- Support the output video stream delay settings, delay time 0-120 seconds custom
- Support internal multiplexer, which can multiplex SPTS program stream after multiplexing and transcoding into MPTS program stream
- Support two gigabit ethernet ports, can be flexible configuration of IP program input and output physical channels
- Support 10 bit HDR
- Support the customization of software functions such as tabular superposition and multi-screen splicing

SPECIFICATIONS

SDI input	
<i>SDI signal format</i>	12G/6G/3G/HD/SD-SDI
<i>Channel</i>	1-channel 12G-SDI, or 2-channel 6G-SDI, or 4-channel 3G/HD/SD-SDI
<i>Video format</i>	2160p60/50/30/25
	1080p60/50/30/25
	1080i60/50
	720p60/50/30
	576p25, 480p30
	576i50, 480i60
<i>Interface</i>	BNC 75Ω
<i>Video encoding</i>	
<i>Video encoding format</i>	H.265/HEVC, H.264/AVC, AVS+, AVS2
<i>Rate</i>	1.0~50.0Mbps
<i>Rate model</i>	CBR, VBR
<i>Video pretreatment</i>	De-interleaving
<i>Audio encoding</i>	
<i>Audio encoding format</i>	MPEG-1 layer 2, MPEG-1 layer 3, LC-AAC, HE-AAC, AC3, EAC3
<i>Sample Rate</i>	48KHz, 44.1KHz, 32KHz
<i>Channel</i>	Mono, stereo, 5.1, 7.1 surrounding stereo sound
<i>Rate</i>	64Kbps-1024Kbps
<i>IP stream input</i>	
<i>Input interface</i>	RJ45
<i>Rate</i>	1000Mbps
<i>Stream encoding format</i>	H.265/HEVC, H.264/AVC, MPEG2, AVS, AVS+, AVS2
<i>Network protocol</i>	UDP, RTP, RTSP, RTMP, HTTP, SRT
<i>Transport stream format</i>	SPTS, MPTS, FLV, HLS

IP Stream Output	
<i>Input interface</i>	RJ45
<i>Rate</i>	1000Mbps
<i>Stream encoding format</i>	H.265/HEVC, H.264/AVC, MPEG2, AVS, AVS+, AVS2
<i>Network protocol</i>	UDP, RTP, RTSP, RTMP, HTTP, SRT
<i>Transport stream format</i>	SPTS, MPTS, FLV, HLS
<i>Control</i>	
<i>Management</i>	Web-based remote network management software
<i>Physical</i>	
<i>Dimension(H×W×D, mm)</i>	44×433×398(mm)
<i>Operation temperature</i>	0-50°C
<i>Relative humidity</i>	0-95%, non-condensing
<i>Power Supply</i>	130-260VAC, 50/60Hz

ORDERING INFORMATION

P/N	DESCRIPTION
LS12G	Lightem Systems 12G-SDI 4K H.265 UHD Video Encoder Transcoder