

Doteck

Doteck R8 Series

JPEG-XS ST 2110 8K UHD Encoder



Features

- (1) Industrial grade 19 inch 1U standard equipment with built-in dual power supply
- (2) Web-based remote network management software
- (3) Support JPEG-XS, H.265/HEVC, H.264/AVC, AVS, AVS+, AVS2, AVS3 (optional) encoding
- (4) Support MPEG-1 layer 2, MPEG-1 layer 3, LC-AAC, HE-AAC, AC3, EAC3, DRA, PCM audio encoding format

- (5) Support three video acquisition methods: 4-channel 12G-SDI, or 4-channel 6G-SDI, or 4-channel 3G/HD/SD-SDI
- (6) Support 4320p, 2160p, 1080p, 1080i, 720p, 576i, 480i video input
- (7) Support SFP optical interface output of 10GBE or 25GBE
- (8) Support SMPTE ST2110-22 standard protocol output, support SMPTE ST2110-10/20/30/40 protocol output
- (9) Support UDP, RTP, RTSP, RTMP, HTTP, SRT network protocol output
- (10) Support simultaneous output of 10 RTMP addresses per channel
- (11) The volume can be controlled and adjusted
- (12) Support real-time display of running status, logging and other functions
- (13) Support SMPTE 2059 PTP clock timing
- (14) Support two gigabit ethernet ports, can be flexible configuration of IP program input and output physical channels
- (15) Support adding logos, scrolling subtitles, and adjusting the size and position of the logos
- (16) Support adding the words "8K UHD" and also supports setting the font color and size
- (17) Support 10bit HDR

Introduction

Dotek R8 series JPEG-XS ST 2110 8K UHD encoder adopts standard 1U chassis structure, is a high quality broadcast audio and video real-time encoder product. This product not only has the traditional H.264/AVC, H.265/HEVC video encoding ability, but also supports international video standard JPEG-XS and China's independent intellectual property rights video standard AVS+, AVS, AVS2, AVS3 (optional) encoding format.

Dotek R8 series JPEG-XS ST 2110 8K UHD encoder can compress 4-channel 12G-SDI, or 4-channel 6G-SDI, or 4-channel 3G/HD/SD-SDI digital videos into any of the above video encoding formats in real-time through the encoding module. The application of JPEG-XS encoding standard can achieve visual lossless quality image encoding technology. Its complexity and latency are low, making it suitable for real-time high-quality image or video

compression. Application scenarios include real-time video transmission storage and buffering, omnidirectional video, and sensor data compression.

Technical Specifications

SDI input	
SDI signal format	12G/6G/3G/HD/SD-SDI
Channel	4-channel 12G-SDI, or 4-channel 6G-SDI, or 4-channel 3G/HD/SD-SDI
Resolution	4320p60/50 2160p60/50/30/25 1080p60/50/30/25 1080i60/50 720p60/50/30 576p25, 480p30 576i50, 480i60
Interface	BNC 75Ω
Video encoding	
Video encoding format	JPEG-XS, H.265/HEVC, H.264/AVC, AVS+, AVS, AVS2, AVS3 (optional)
Bit rate	40Mbps~10Gbps
Rate control	CBR, VBR
Video pretreatment	De-interleaving
Audio encoding	
Audio encoding format	MPEG-1 layer 2, MPEG-1 layer 3, LC-AAC, HE-AAC, AC3, EAC3, DRA, PCM
Sampling rate	48KHz, 44.1KHz, 32KHz
Channel	Mono, stereo, 5.1, 7.1 surrounding stereo sound
Bit rate	64Kbps~1024Kbps
IP stream output	
Output interface	10GBE/25GBE SFP optical interface
Channel	One 8K IP stream or 4-channel 4K IP stream
JPEG-XS output protocol	SMPTE ST2110-22,ST2110-10/20/30/40
Network protocol	UDP, RTP, RTSP, RTMP, HTTP, SRT
Control	
Management	Web-based remote network management software
Physical	
Dimension(H×W×D, mm)	44×433×636(mm)
Operation temperature	0-50℃
Relative humidity	0-95%, non-condensing
Power supply	130-260VAC, 50/60Hz

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