

Doteck

Doteck R4 Series

4K UHD H.265 Encoder and Transcoder



Features

- (1) Industrial grade 19 inch 1U standard equipment with built-in dual power supply
- (2) Web-based remote network management software
- (3) Support H.265/HEVC, H.264/AVC, AVS, AVS+, AVS2 (optional) encoding
- (4) Support MPEG-1 layer 2, MPEG-1 layer 3, LC-AAC, HE-AAC, AC3, EAC3 audio encoding format
- (5) Support three video capture methods: 1-channel 12G-SDI, or 2-channel 6G-SDI, or 4-channel 3G/HD/SD-SDI
- (6) Support SDI resolution of 2160p, 1080p, 1080i, 720p, 576i, 480i input
- (7) Support SPTS, MPTS over UDP, FLV over RTMP, HLS over HTTP transmission stream IP input
- (8) Support UDP, RTP, RTSP, RTMP, HTTP, SRT network protocol output
- (9) Support the output video stream delay settings, delay time 0-120 seconds custom
- (10) Support internal multiplexer, which can multiplex SPTS program stream after multiplexing and transcoding into MPTS program stream
- (11) Support two gigabit ethernet ports, can be flexible configuration of IP program input and output physical channels
- (12) Support 10bit HDR
- (13) Support picture, caption overlay, multi-screen splicing and other software

functions customization

(14) Support main and standby signal switching function

(15) Support GOP length, GOP structure and bit rate control buffer settings

(16) Support CBR, VBR rate control mode

(17) Stable operation of the equipment, supporting 7x24 hours uninterrupted work

Introduction

Dotek R4 series 4K UHD H.265 encoder and transcoder adopts standard 1U chassis structure, is a high quality broadcast audio and video real-time encoder transcoder product. This product not only has the traditional H.264/AVC video encoding ability, but also supports international video standard H.265/HEVC and China's independent intellectual property rights video standard AVS+, AVS, AVS2 (optional) encoding format.

Dotek R4 series 4K UHD H.265 encoder and transcoder can compress 1-channel 12G-SDI, or 2-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, and can also convert 1-channel 4K IP input stream, or 8-channel HD IP input stream, or 24-channel SD IP input stream into any of the above video encoding formats in real-time.

Technical Specifications

SDI input	
SDI signal format	12G/6G/3G/HD/SD-SDI
Channel	1-channel 12G-SDI, or 2-channel 6G-SDI, or 4-channel 3G/HD/SD-SDI
Resolution	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	H.265/HEVC, H.264/AVC, AVS+, AVS, AVS2 (optional)

Bit rate	1.0Mbps~200.0Mbps
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
Sampling rate	48KHz, 44.1KHz, 32KHz
Channel	Mono, stereo, 5.1, 7.1 surrounding stereo sound
Bit rate	64Kbps~1024Kbps
IP stream input	
Input interface	RJ45
Rate	1000Mbps
Stream encoding format	H.265/HEVC, H.264/AVC, AVS, AVS+, AVS2 (optional)
Network protocol	UDP, RTP, RTSP, RTMP, HTTP, SRT
Transport stream format	SPTS, MPTS, FLV, HLS
IP stream output	
Output interface	RJ45
Rate	1000Mbps
Stream encoding format	H.265/HEVC, H.264/AVC, AVS, AVS+, AVS2 (optional)
Network protocol	UDP, RTP, RTSP, RTMP, HTTP, SRT
Transport stream format	SPTS, MPTS, FLV, HLS
Control	
Management	Web-based remote network management software
Physical	
Dimension(H×W×D, mm)	44×433×498(mm)
Operation temperature	0-50℃
Relative humidity	0-95%, non-condensing
Power supply	130-260VAC, 50/60Hz

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