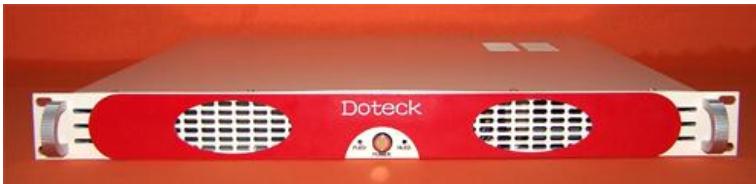


Doteck

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

Doteck 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.

Doteck 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°C
Relative humidity	0-95%, non-condensing
Power supply	130-260VAC, 50/60Hz

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Doteck Digital Technologies

Suite 819, Building C, Suite 11A, 11B, 11D, Tower 2, International Innovation Park, No. 2, Shangdi Info Road, Haidian District, BEIJING, CHINA. Post code: 100085