

# Doteck

## Doteck R4 Series

### 4K 12G-SDI H.265 UHD Video Encoder



#### Features

- (1) Standard 1U case, advanced CPU and GPU co-coding and transcoding technology are adopted
- (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 acquisition methods: 1-channel 12G-SDI, or 2-channel 6G-SDI, or 4-channel 3G/HD/SD-SDI
- (6) Support SDI resolution 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 12G-SDI H.265 UHD video encoder 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 and transcoding ability, but also supports the latest 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 12G-SDI H.265 UHD video encoder 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 stream, or 8-channel HD IP stream, or 24-channel SD IP stream in real time.

## Technical Specifications

<b>SDI input</b>	
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
<b>Video encoding</b>	
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
<b>Audio encoding</b>	
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
<b>IP stream input</b>	
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
<b>IP stream output</b>	
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
<b>Control</b>	
Management	Web-based remote network management software
<b>Physical</b>	
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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