

# **HEVC/H.265 Network Encoder**



Support IP out over UDP(SPTS) SRT/RTP/RTSP/RTMP/HTTP/HLS **Multiple HDMI inputs** 



## OSD (Logo/QR Code) Insertion



DEGING

NEW

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Covered



#### **Principle Chart of Per Module**

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(The number of encoding channels depends on encoding format and resolution)



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#### **Technical Specification**

Input	4/8/12 HDMI inputs for option, HDCP 1.4					
	Encoding Format HEVC/ H.265, MPEG 4 AVC/H.264					
Video Encoding	Resolution	T		Output		
		пр	ut	HEVC/H.265	MPEG-4 AVC/H.264	
		4*1080P-5	50	4*1080P-50	2*1080P-50	
		4*1080P-6	50	4*1080P-60,	2*1080P-60	
		4*1080I-50	0	4*1080P-50	4*1080I-50	
					2*1080P-50	
		4*1080I-60	0 4*1	4*1080P-60	4*1080I-60	
					2*1080P-60	
		4*720P-50	)	4*720P-50	4*720P-50	
		4*720P-60	)	4*720P-60	4*720P-60	
	Chroma	4:2:0				
	Bitrate	0.5Mbps~20Mbps(each channel)				
	Rate Control	CBR/VBR				
	GOP Structure	IBBP, IPPP				
	Advanced	De-interlacing, Noise Reduction, Sharpening				
	Pretreatment					
Audio Encoding	Encoding Format	MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2, AC3				
	Encoding i officia	Pass-through				
	Sampling rate	48KHz				
	Bit-rate (each channel)	48Kbps~384Kbps (MPEG-1 Layer 2& LC-AAC)				
		24 Kbps~128 Kbps (HE-AAC)				
		18 Kbps~56 Kbps (HE-AAC V2)				
	Audio Gain	0~255				
Stream output	IP (4 SPTS) output over SRT, RTP, RTSP, RTMP, HTTP, HLS per module,					
	1000M/100M Base-T Ethernet interface (unicast/multicast); IPv4, IPv6 output					
	IP null packet filter					
System	Web based management					
	Chinese-English control interface					
	Ethernet software u					
Miscellaneous	Dimension (W× L× H)		482mm×328mm×44mm			
	Approx weight		5kg			
	Temperature		0~45°C(work), -20~80°C (Storage)			
	Power		AC 100V-220V±10%, 50/60Hz			

## Dexin HEVC/H.265 encoder's advantages

#### 1. Providing smooth TS for modulators

Dexin HEVC/H.265 encoder adopts Fujitsu chip which offers stable bitrate with lower fluctuation compared with other encoding chips, so it provides smooth TS for modulators. It widely used in variety of digital distribution systems such as CATV digital head-end, satellite and terrestrial digital TV, etc.



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### 2. Encoding with highest compression format—B frame (IBBP)

#### What is B Frame?

Thereare 3 major picture types used in the different video algorithms, they are I, P and B. They are different in the following characteristics:

I-frames are the least compressible but don't require other video frames to decode.

P - frames can use data from previous frames to decompress and are more compressible than I -frames.

B-frames can use both previous and forward frames for data reference to get the highest amount of data compression.

Frame Type	Byte of data/KB	<b>Compression Ratio</b>
Ι	18	7:1
Р	6	20:1
В	2.5	50:1

In one word, B frame is the highest compression format which makes it possible to process HD video at low bitrate. HEVC/H.265 encoder is not able to save bandwidth unless it is with B frame.In encoder parameters, B frame is often describedin GOP (Group of Pictures) structure, like "IBBP".



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