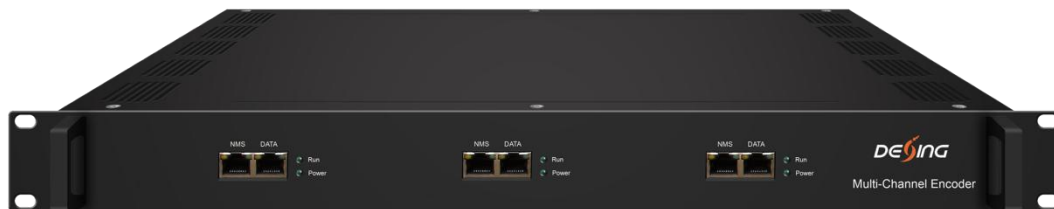




DX3224H/HV

Multi-Channel Encoder



OSD (Logo/QR Code) Insertion



Logo: support jpg/jpeg/bmp/gif/png file; drag to any position

QR Code: creat QR code quickly; add text/logo; custom size; drag to any position



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- ◆ **Video Encoding:** HEVC/H.265 & MPEG 4 AVC/H.264
- ◆ **Audio Encoding:** MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2, AC3 Passthrough
- ◆ **Ultra Low Bit Rate:** Save 75% Bandwidth
- ◆ **Enhance Picture Quality:** Advanced Compressing Algorithm
- ◆ **Advanced Pretreatment:** De-interlacing, Noise Reduction, Sharpening
- ◆ **OSD (Logo, QR Code) insertion**—Optional as per order



News Channel/Movies

1Mbps Full HD



B frame(IBBP) GOP Structure



Full HD 1080P



Decoder/STB

STB Available with Ensurity CAS

Decoding Chipset: Montage CS8051

NationalChip GX3201H



Sports Channel

2Mbps Full HD

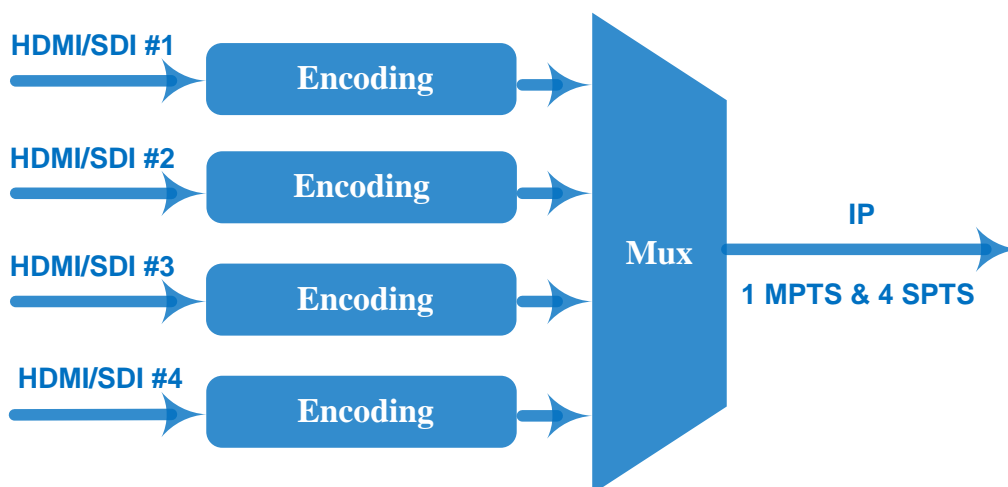


HDMI 1.4



HDCP 1.4

Principle Chart of Per Module



Technical Specification

Input	4/8/12×HD-SDI or HDMI(1.4) input for option, HDCP 1.4			
Video Encoding	Encoding Format	HEVC/ H.265, MPEG 4 AVC/H.264		
	Resolution (DX3224HV)	Input	Output	
			HEVC/H.265	MPEG-4 AVC/H.264
		4*1080P-50	4*1080P-50	4*1080P-25 2*1080P-50
		4*1080P-60/59.94	4*1080P-60, 4*1080P-59.94	4*1080P-30 4*1080P-29.97 2*1080P-60 2*1080P-59.94
		4*1080I-50	4*1080P-50, 4*1080P-25	4*1080I-50 4*1080P-25 2*1080P-50
		4*1080I-60/59.94	4*1080P-60, 4*1080P-30	4*1080I-60 4*1080P-30 2*1080P-60
		4*720P-50	4*720P-50	4*720P-50
		4*720P-60/59.94	4*720P-60, 4*720P-59.94	4*720P-60 4*720P-59.94
	Resolution (DX3224H)		Output	
		Input	HEVC/H.265	MPEG-4 AVC/H.264
		4*1080P-50	4*1080P-50	4*1080P-50
		4*1080P-60/59.94	4*1080P-60, 4*1080P-59.94	4*1080P-60 4*1080P-59.94
		4*1080I-50	4*1080P-50, 4*1080P-25	4*1080P-25 4*1080P-50 4*1080I-50
		4*1080I-60/59.94	4*1080P-60, 4*1080P-30	4*1080P-30 4*1080P-60 4*1080I-60
		4*720P-50	4*720P-50	4*720P-50
		4*720P-60/59.94	4*720P-60, 4*720P-59.94	4*720P-60 4*720P-59.94
Chroma	4:2:0			
Bitrate (per channel)	0.5Mbps~20Mbps (HEVC/ H.265) 4 Mbps~20Mbps (MPEG 4 AVC/H.264)			
Rate Control	CBR/VBR			
GOP Structure	IBBP, IPPP			
Advanced Pretreatment	De-interlacing, Noise Reduction, Sharpening			
Audio Encoding	Encoding Format	MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2, AC3 Passthrough		
	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	1 MPTS and 4 SPTS output over UDP/RTP/RTSP per module, Base-T Ethernet interface (1000M/100M self-adaption) (unicast/ multicast) IP null packet filterd	
System	Web based management	
	Chinese-English control interface	
	Ethernet software upgrade	
Miscellaneous	Dimension (W× L× H)	482mm×328mm×44mm
	Approx weight	5kg
	Temperature	0~45℃(work), -20~80℃ (Storage)
	Power	AC 100V-220V±10%, 50/60Hz

Technical Comparison



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		NDS3224V-HDMI	NDS3224V-SDI	DX3224H	DX3224HV
Input Interface		4/8/12*HDMI	4/8/12*SDI	4/8/12*HDMI/SDI	4/8/12*HDMI/SDI
Video Encoding		H.265, H.264	H.265, H.264	H.265, H.264	H.265,H.264
Audio Encoding		MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2, AC3 Passthrough			
Input Resolution	H.265	3840x2160P@30*2CHs 1920x1080P@50/60*4CHs 1280x720P@50/60*4CHs	1920x1080P@50/60*4CHs 1280x720P@50/60*4CHs 1920x1080I@50/60*4CHs	1920x1080P@50/60*4CHs 1920x1080I@50/60*4CHs 1280x720P@50/60*4CHs	4*1920x1080_60P/59.94P 4*1920x1080_50P 4*1920x1080_60i 4*1920x1080_50i 4*1280x720_60P 4*1280x720_50P
	H.264	3840x2160P@30*1CH 1920x1080P@50/60*2CHs 1280x720P@50/60*4CHs	1920x1080P@50/60*2CHs 1920x1080I@50/60*2CHs 1280x720P@50/60*4CHs		4 or 2*1920x1080_60P/59.94P 4 or 2*1920x1080_50P 4 or 2*1920x1080_60i 4 or 2*1920x1080_50i 4*1280x720_60P 4*1280x720_50P
Output Resolution	H.265	Same as input resolution	1920x1080P@50/60*4CHs 1280x720P@50/60*4CHs	1920x1080P@50/60*4CHs 1280x720P@50/60*4CHs	4*1920x1080_60P/59.94P 4*1920x1080_50P 4*1920x1080_30P 4*1920x1080_25P 4*1280x720_60P 4*1280x720_50P
	H.264		1920x1080P@50/60*2CHs 1280x720P@50/60*4CHs		2*1920x1080_60P/59.94P (HDMI 3 and HDMI 4) 2*1920x1080_50P (HDMI 3 and HDMI 4) 4*1920x1080_30P/29.97P 4*1920x1080_25P 4*1920x1080_60i 4*1920x1080_50i 4*1280x720_60P 4*1280x720_50P
OSD		N/A	N/A	Optional as per order	Optional as per order
Caption Language		N/A	N/A	Not support caption	Not support caption
Note: “CH” means encoding channel, different encoding format can encode different channel with different resolution.					