



NDS3211B

MPEG-2/H.264 HD Encoder

QR CODE, LOGO, OSD Insertion



● 4 stereo/8 mono audio output

● Huge video buffer

● CC(closed caption), EIA 608 & EIA708

● QR code, Logo, OSD Inserted

● RTP (FEC, SMPTE 2022-1/2) output

QR CODE, LOGO, OSD Insertion Function Preview

OSD (Logo/PPT/Caption/QR Code) Insertion



Status Parameter Advanced System Reboot SW:1.52 HW:1.30

OSD SETTINGS

Logo	Caption	QRCode
Video Format	1920x1080 59.94i	
Logo Size	386x132	
Logo (X,Y)	(626,404)	
Alpha(0-255)	0	
Scroll	OFF	
Browse...	123.jpg	UPLOAD

Apply Get Config

Status Parameter Advanced System Reboot SW:1.52 HW:1.30

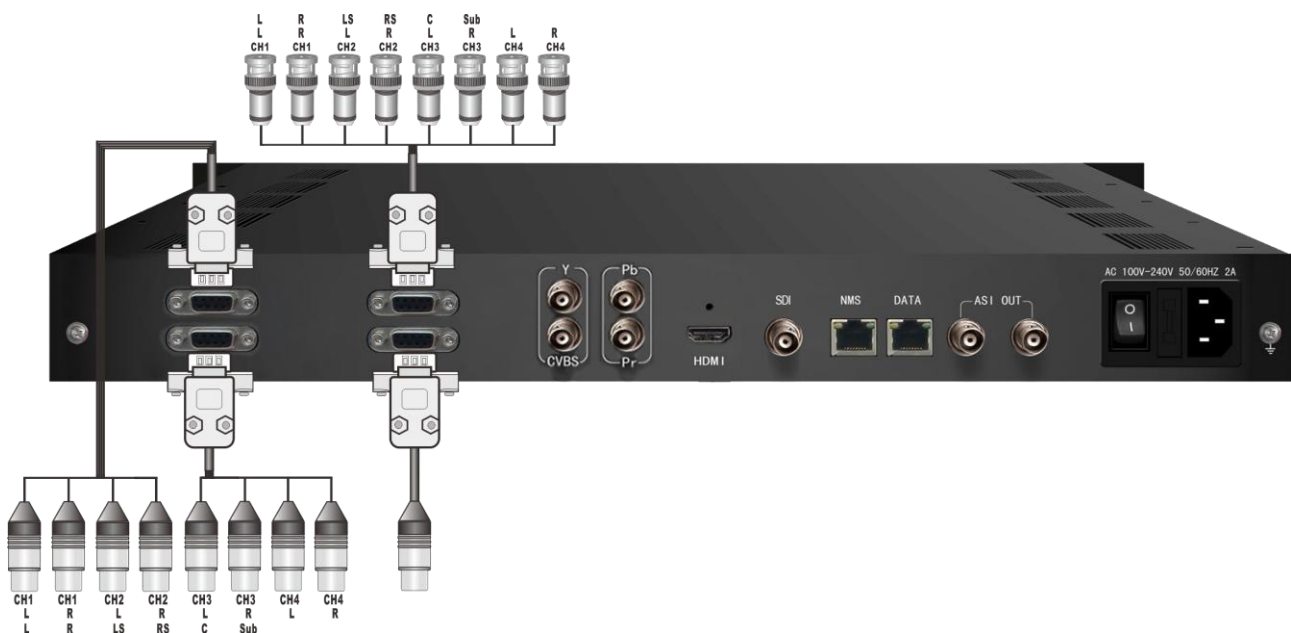
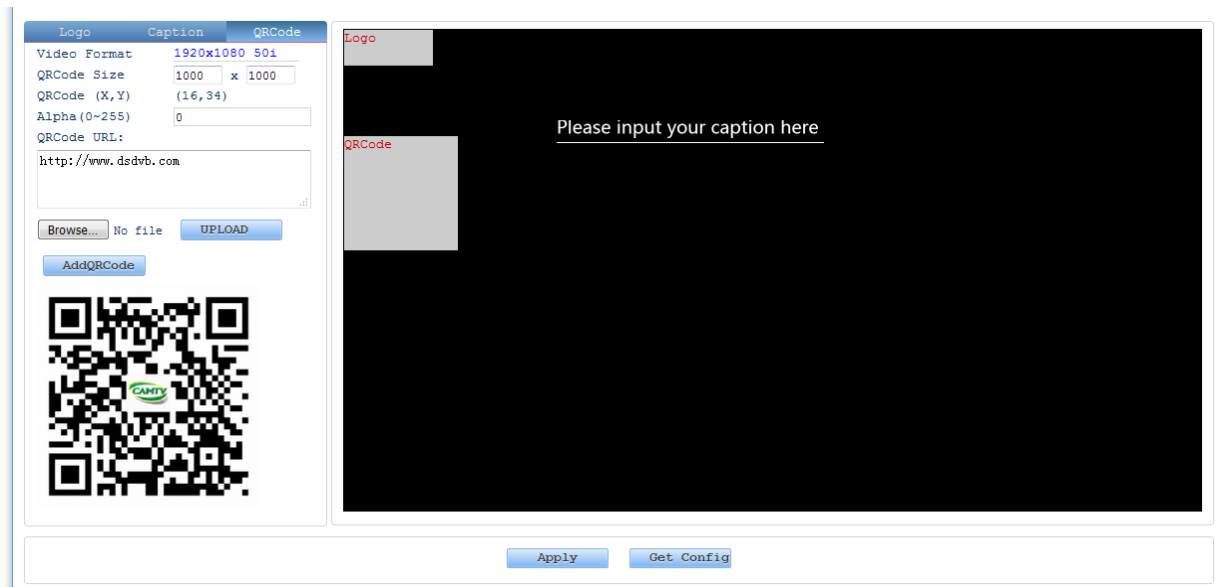
OSD SETTINGS

Logo	Caption	QRCode
Video Format	1920x1080 59.94i	
Caption (X,Y)	(212,646)	
Alpha(0-255)	0	
Scroll	ON	
Speed	50	
Length	1500	
Font Size	40 px	FontWeight Norms
Max Chars	100 line/p	Size:400x40
Text Color	Yellow	Background: Red

Welcome Convergence

AddCaption

Apply Get Config



Outline

NDS3211B MPEG-2/H.264 HD Encoder is the new broadcasting audio & video encoding device with powerful functionality. It is equipped with multiple video input interfaces (SDI, CVBS, YPbPr and HDMI) and audio input interfaces (AES, RCA and XLR) to make it possible to compatible with different signal sources.

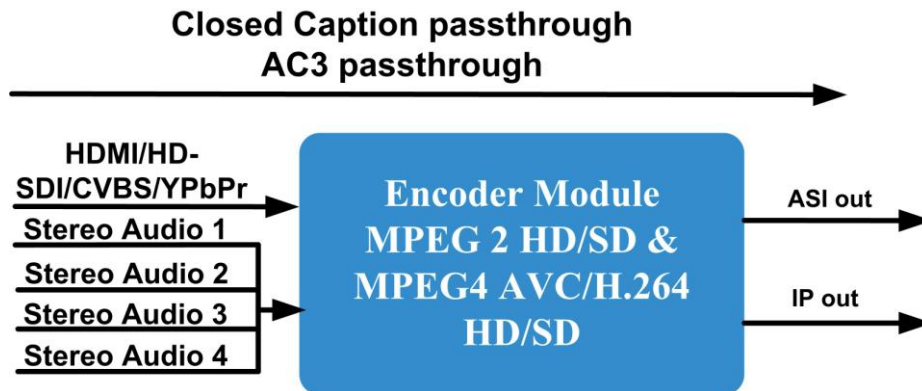
Multiple audio and video encoding formats are available to meet customers' various requirements. It supports 4 stereo (8 mono) mix with the video to form a stream output. The encoded program will finally output in TS through ASI/IP port.

NDS3221B has QR code, LOGO and OSD insertion function. It will show 3 functions at same time. Operator can insert advertisement picture, own LOGO, special QR code, OSD content on encoding process independent of STB. It will bring more profit for product user.

Key Features

- Support QR code, LOGO, OSD inserted(Language Supported: 中文, English, العربية, اردو , for more languages please consult us...)
- MPEG-2 HD/SD and MPEG-4 AVC/H.264 HD/SD video encoding
- MPEG1 Layer II, HE-AAC (v1&v2), LC-AAC and DD AC3 audio encoding
- Support DD AC3 audio passthrough (for SDI in)
- Support 4 stereo or 8 mono audio encoding
- Support ASI output and IP over UDP and RTP (FEC, SMPTE 2022-1/2) output
- Support 1080I,720P, 480I, 576I video resolution and downscale transform
- Support video buffer, free to switch video sources (all video interface available)
- Support CC (closed caption), EIA 608 and EIA 708 (for CVBS and SDI in)
- LCD / keyboard control and web management
- Support low latency

Inner Principle Chart



Specifications

Video	Interface	1×SDI, 1×CVBS, 1×YPbPr and 1×HDMI		
	Resolution	Input	Output	Interface Applicable
		1920×1080i@60	1920×1080, 1440×1080, 1280×1080i, 960×1080i	HDMI, SDI, YPbPr
		1920×1080i @59.94		
		1920×1080i @50		
		1280×720p@60	1280×720, 960×720p, 640×720p	HDMI, SDI, YPbPr
		1280×720p@59.94		
		1280×720p@50		
		720×576i@50	720×576, 704×576, 640×576,	SDI, CVBS



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		544×576, 528×576, 480×576, 352×576	
	720×480i@59.94	720×480, 704×480, 640×480, 544×480, 528×480, 352×480	SDI, CVBS
	Encoding	MPEG-2 HD/SD; MPEG-4 AVC/H.264 HD/SD	
	Bitrate Range	0.20 – 60.00 Mbps	
	Rate Control	CBR	
	GOP Structure	Auto, IP, IPB, IPBB, IPBBB	
	Aspect Ratio	4:3, 14:9 (for SD video), 16:9 (for HD video)	
	Chroma	4:2:0, 4:2:2	
Audio	Interface	4×XLR, 4×RCA, 1×AES, 1×HDMI, 1×SDI (support maximum 4 stereos synchronous processing)	
	Encoding	MPEG-1 Layer II, HE-AAC (v1&v2), LC-AAC, DD AC3 (2.0 available); DD AC3 passthrough (for SDI in)	
	Sampling rate	48KHz	
	Bit-rate	32Kbps~640Kbps	
Low Delay options		150ms, 200ms, 350ms, 650ms	
Stream output		2×ASI output ports, BNC interface IP over UDP and RTP (FEC, SMPTE 2022-1/2), 100 Base-T Ethernet interface (UDP multicast/unicast)	
System function		LCD/keyboard and web management Language: English Ethernet software upgrade	
General		Dimensions	482mm×405mm×44.5mm (W × D × H)
		Temperature	0~45°C (Operation), -20~80°C (Storage)
		Power	AC110V±10%, 50/60Hz; AC 220V±10%, 50/60Hz

Technical Comparison

	NDS3211B	NDS3211A	NDS3211P
Chipset	Magnum	Magnum	Fujitsu
Video interface	1×SDI, 1×CVBS, 1×YPbPr, 1×HDMI	1×SDI, 1×CVBS, 1×YPbPr, 1×HDMI	1×SDI, 1×CVBS, 1×YPbPr, 1×HDMI, 1×S-Video
Video Encoding	MPEG-2 HD/SD; MPEG-4 AVC/H.264 HD/SD	MPEG-2 HD/SD; MPEG-4 AVC/H.264 HD/SD	MPEG-4 AVC/H.264 HD/SD
Bit Rate	0.20 – 60.00 Mbps	0.25Mbps~60.5Mbps	0.8Mbps~20Mbps
HDMI Resolution	HD	HD/SD	HD/SD
Audio Encode	MPEG-1 Layer II, HE-AAC (v1&v2), LC-AAC, DD AC3 (2.0), DD AC3 passthrough (for SDI in)	MPEG-1 Layer II, HE-AAC (v1&v2), LC-AAC; DD AC3 passthrough	MPEG-1 Layer II, (HE-AAC(v2) and LC-AAC optional, as per customer's order)
Audio Channel	Up to 4 stereos	Up to 2 stereos	1 stereo
Rate Control	CBR	CBR/VBR	CBR/VBR



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Aspect Ratio	16:9, 4:3, 14:9	16:9, 4:3, 1:1, 2.35:1	16:9, 4:3
Chroma	4:2:0, 4:2:2	4:2:0, 4:2:2	4:2:0
One-seg	N/A	Yes	N/A
PIP	Under Develop	N/A	N/A
Video Buffer	Yes	N/A	N/A
ASI In & Mux	N/A	Yes	N/A
IP out	UDP/RTP	MPTS/8*SPTS over UDP/RTP,	UDP/RTP
Low Delay	150ms, 200ms, 350ms, 650ms	1400ms - 5000ms, 1ms stepping	N/A
Closed Caption	EIA 608 and EIA 708	EIA 608 and EIA 708	N/A
OSD Function	Yes	N/A	N/A
Management	Web-server	Web-server, SNMP	SNMP, NMS