

INGRON2301EH Single-Channel MPEG-2/H.264 HD Encoder



Features

- Video compression: MPEG-2/H.264 HD/SD
- Audio compression: MPEG1 Layer II, LC-AAC and HE-AAC(V1&V2), AC3
- ASI and IP(UDP) output, IP output in unicast /multicast mode
- Equipped with empty packets filtering of IP out
- Input interface: HDMI, SDI, CVBS, YPbPr for video, HDMI, SDI, AES, XLR, L/R for audio;
- Support embedded 4*stereo or 8*Mono or 1*AC3 to mix with the input video
- Providing PSI/SI compilation and NIT, LCN insertion
- Built-in PCR capability
- Support Closed Caption(CC), EIA 608 and EIA 708(for CVBS and SDI in)
- Web management for remote control and centralized management

Specifications

Video Compression

Video Compression	MPEG-2/H.264 SD/HD		
Video Input	HDMI, HD/SD-SDI, CVBS, YPbPr		
Video Input Mode	PAL, NTSC		
Resolution		Input	Output
	HDMI, SDI, YPbPr	1920*1080i@60, 1920*1080i@59.94, 1920*1080i@50	1920*1080, 1440*1080, 1280*1080i, 960*1080i
	HDMI, SDI, YPbPr	1280*720P@60, 1280*720P@59.94, 1280*720P@50	1280*720, 960*720P, 640*720P
	SDI, CVBS	720*576i@50	720*576, 704*576, 640*576, 544*576, 528*576, 480*576, 352*576
	SDI, CVBS	720*480i@59.94	720*480, 704*480, 640*480, 544*480, 528*480, 352*480
Bit-Rate	0.52~60.00 Mbps, CBR		
Video pre-processing	De-Interlacing, Noise Reduction, Sharpen		
GOP	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(Applicable to all resolution under MPEG2 compression); 4:2:0 (Applicable to all resolution under MPEG4 AVC/H.264 compression)		

Audio Compression

Audio Compression	MPEG-1 Layer II, MPEG-2/4 LC-AAC, HE-AAC, AC3(2.0, 5.1 available); AC3 passthrough (for SDI input)
Audio Input	HDMI, SDI, XLR, RCA, AES (max. support 4*stereo synchronous processing for one AC3 5.1ch processing)
Sampling Rate	48 KHz
Sampling Accuracy	24-bit
Bit-Rate	32 Kbps~384 Kbps

Other functions

Low delay in 150ms, 200ms, 350ms, 650ms for option

Input

Video	1*HDMI, 1*SDI, 1*CVBS, 1*YPbPr
Audio	4*balanced stereo XLR, 4*RCA, 1*AES, 1*HDMI, 1*SDI

Output

ASI Output	Number	1*ASI+ 1*ASI(backup)
	Standard	EN 50083-9 ASI
	MPEG Frame	188/204 byte
	Reflection Loss	>10 dB
	Connector Type	75 Ω, BNC interface
IP Output	Transport Protocol	TS over IP output, UDP protocol
	IP Output Mode	Unicast / Multicast
	Connector Type	10/100 Base-T Ethernet interface
		Support empty packets filtering

Management

Local Control	LCD and keyboard on front panel
Remote Control	by Web Management
Upgrading	by Ethernet software
Language	English

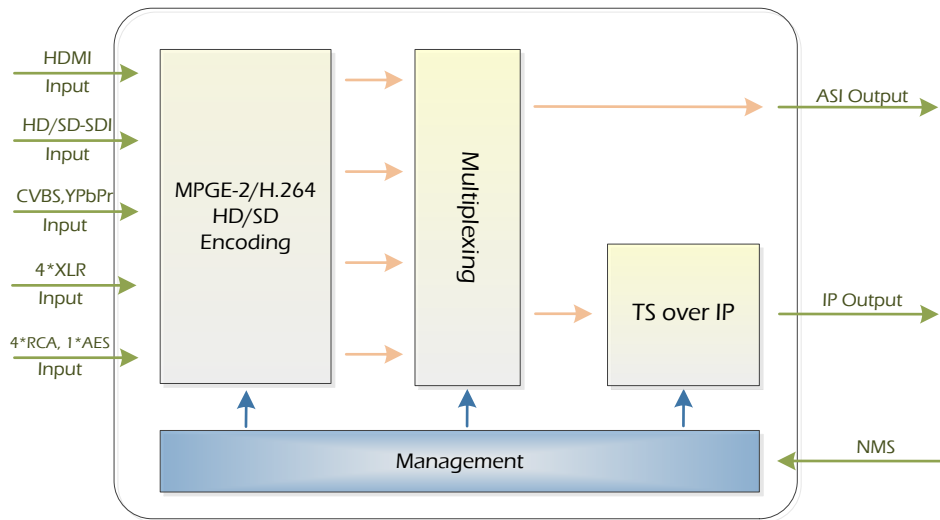
General

Voltage	110~220V AC, 50/60 Hz
Power Consumption	21.0 W
Environment	0~45°C (Operation), -20~80°C (Storage)
Dimensions(W*D*H)	482*405*44.5 mm
Gross Weight	4.5 KGS

Introductions

INGRON2301EH MPEG-2/H.264 Single-Channel HD Encoder is a device designed in low latency, excellent performance and low bit rate, for audio & video compression, for digital TV head-end system. Adopted with MPEG-2 & MPEG-4 AVC/H.264 and MPEG-1 Layer II, HE-AAC & LC-AAC, AC3, the device is equipped with HDMI, SDI, YPbPr and CVBS for video, and also AES, 4*XLR & 4*L/R. It is able to support max. 4*stereo or 8*mono or 1*AC3 embedded audio to multiplex with the input video, and output to be a stream. Supporting both MPEG-2 and MPEG-4 AVC/H.264 standards, the encoder provides more functions for clients' different applications in different circumstances. Its 1*ASI+1*ASI(backup) and 1*IP+1*IP(backup)(UDP) make it applicable to more systems, such as IPTV, etc..

Diagram



Rear Panel

