



High-End Encoding

Latency 150ms

Chroma Depth 4:2:0 4:2:2(10bit)

Resolutions up to 1080p

Introduction

Best performing and fully programmed ADV-9700 High-End Encoder enables to transmit more video and audio channels at the available bandwidth. Fully supporting up to 1080p, 4:2:2 and 4:2:0, MPEG-2/MPEG-4 AVC (H.264), it delivers the real-time video quality with user-friendly easy to set up front control panel.

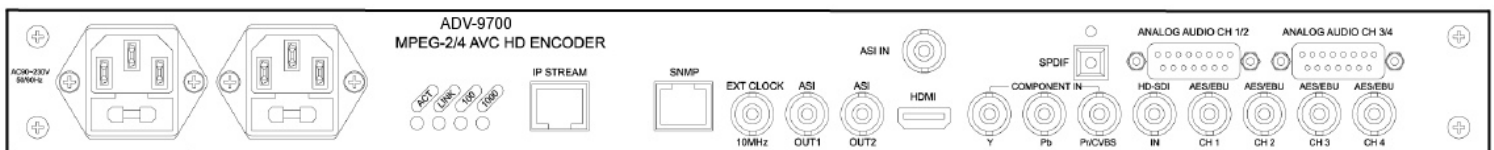
Competitiveness

- Providing your viewers with the best performance compression and flawless picture quality
- Wide use in many projects with high compatibility supporting various formats
- Best choice for broadcasting of racing, sports via real time encoding with ultra low latency at 150ms
- Reduce the cost of transmission as supporting wide range of bit-rate control and advanced video coding techniques
- Able to secure space with compact size for installing

Feature

- Component, Composite, HDMI, HD/SD-SDI video inputs
- Ultra low latency as 150ms
- Up to 1080p Resolution
- 4:2:0, 4:2:2(10 bit)
- Digital, Analog and SDI embedded audio(8channel) inputs.
- 5.1 channel Dolby Digital (AC-3) encoding support
- 7.1 channel SPDIF audio optical input(pass through)
- Additional 1xASI input for supporting of insertion of externally generated PSIP into the transport stream
- Provides internally generated PSI, PSIP, SI
- Control of Frame rate
- Selectable MPEG-2 HD or H.264 HD real-time video encoding
- Simultaneous outputting of 2xTransport stream (ASI) with UDP/IP or RTP/IP transport stream.
- Dolby Digital (AC-3), MPEG-1 Layer II, AAC-LC, HE-AAC audio encoding
- CEA-608 input source is converted to 708
- Internally generated TVCT, CVCT, SDT, NIT
- Excellent IP converter integrated performance
 - Much lower latency & stable IP output
- Control and monitoring via web browser, front panel, or SNMP
- 4 channel AES/EBU Digital Audio
- 4 stereo(8channels) analog input with D-sub type
- Integrated Advanced Scaler function
 - Control of Frame rate, Image enhance
 - Phase Noise, Correction of Color, Control of Gamma
- Video Confidence Monitoring
- Redundancy as Dual Power

Configuration



Specifications

	ITEM	CHARACTER	
Video Input	Analog	Input Level Composite, Component(up to 1080i)	
	Digital	Input Level HDMI, HD-SDI	
	Resolutions	1000 mVp-p (HDMI) 800mVp-p (HD-SDI) 480i29.97, 576i25, 720p50/59.94, 1080i25/29.97, 1080p25/29.97	
	SD Aspect Ratio	4:3, 16:9	
Audio Input	Analog	Input Freq. Range Impedance Connector 4 Stereo 20 Hz ~ 20 KHz 600 Ω D-SUB 15pin x 2	
	Digital	Input Sampling Rate Connector 4 x AES-EBU, Embedded SDI/HDMI (4 Stereo 8 Channel) 32, 44.1 and 48 KHz BNC (75Ω) / HDMI-19PIN	
	Optical	Input SPDIF(7.1 Channel) pass through	
	Encoding	MPEG-2 HP@HL, MP@HL, MP@ML H.264 HP@L4, MP@L3	
Video Encoder	Encoding Rate	MPEG-2 : 1.6~50 Mbps, H.264 : 0.6~50 Mbps	
	Chroma Format	4:2:0, 4:2:2 (8 bit / 10 bit)	
	PSNR	38 dB	
	Bit Rate Mode	CBR,VBR	
	Latency	150 ms~	
Audio Encoder	Input Sampling Rate	32, 44.1, 48 KHz	
	Output sampling Rate	48 KHz	
	Encoding	MPEG-1 Layer II (2ch) AAC LC (2ch, 5.1ch) AC-3 (2ch) HE-AAC v1 (5.1ch) AC-3 Pro (2ch, 5.1ch) HE-AAC v2 (2ch)	
	Audio Mix	4 Stereo (8ch) or 5.1ch	
	Bit Rate	AC-3 AC-3 Pro MPEG1 AAC LC HE AAC v2 AC-3 Pro 5.1 AAC LC 5.1 128, 192, 256, 384 KHz 96, 112, 128, 160, 192, 224, 256, 320, 384 KHz 64, 96, 112, 128, 160, 192, 224, 256, 320, 384 KHz 32,48,56,64,80,96,112, 128,160,192, 224, 256, 320,384 KHz 32, 48, 56, 64, 80, 96 KHz 224, 256, 320, 384, 448, 576, 640 KHz 96, 112, 128, 160, 192, 224, 256, 320, 384 KHz	
	Dolby E-Pass Through	*Under the audio input source of Dolby-E only HE AAC v1 5.1 96, 112, 128, 160, 192, 224, 256 KHz	
	Delay	-100 ~ 400 ms	
	TS Input	Transport Stream	DVB-ASI 1port
		Connector	BNC (75 Ω)
		Packet Format	188 Byte
		Output Level	800 mVp-p
TS Output	Transport Stream	ASI 2port	
	Connector	BNC (75 Ω)	
	TS Bit Rate	MPEG-2 : 2.5~60 Mbps, H.264 : 2.5~60 Mbps	
	Packet Format	188 Byte	
IP TS Output	Output	1 port	
	Connector	RJ-45	
	Ethernet type	10/100/1000 Base-T	
	Stream Protocol	UDP/IP, RTP/IP	
	Broadcasting	Multicast, Unicast	
Ethernet	TS Bit rate	MPEG-2 : 2.5~60 Mbps, H.264 : 2.5~60 Mbps	
	Connector	RJ-45	
	Interface Type	10/100 Base-T	
General	Protocols	SNMP	
	Power Requirements	AC 90~230 V, 50/60 Hz	
	Power Consumption	Max. 100 W	
	Weight	4 Kg	
	Operating Temperature	-10 ~ 50 °C	
	Dimensions (W x H x D)	482 x 44 x 483 mm	