



High-End Encoding

Latency 150ms

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

Resolutions up to 1080p

Introduction

The ADV-9700 is a high performance encoder capable of HD 4:2:2 encoding at the ultra low latency of 150ms. Ideal for the broadcasting of sports, racing, and other demanding real-time applications.

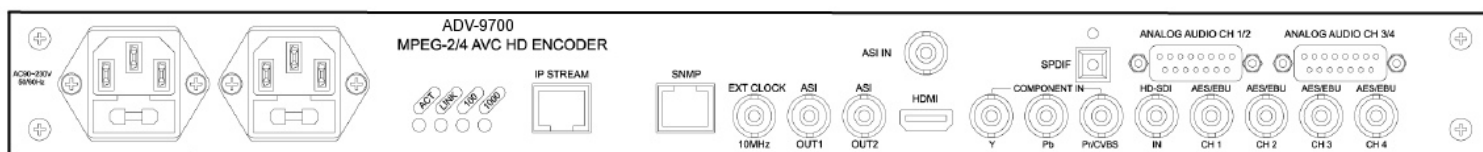
Competitiveness

- 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 support of insertion of externally generated PSIP into the transport stream
- internally generated PSI, PSIP, SI
- Control of Frame rate
- Selectable MPEG-2 HD or H.264 HD real-time video encoding
- Simultaneous output 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
- High performance IP Converter
 - 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 enhancement
 - Phase Noise, Correction of Color, Control of Gamma
- Video Confidence Monitoring

Configuration



Specifications

ITEM			CHARACTER
Video Input	Analog	Input Level	Composite, Component(up to 1080i)
	Digital	Input Level	1 Vp-p 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	4 Stereo 20 Hz ~ 20 KHz
		Impedance	600 Ω
		Connector	D-SUB 15pin x 2
	Digital	Input Sampling Rate	4 x AES-EBU, Embedded SDI/HDMI (4 Stereo 8 Channel) 32, 44.1 and 48 KHz
Video Encoder		Connector	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
	Encoding Rate		MPEG-2 : 1.6~50 Mbps, H.264 : 0.6~50 Mbps
Audio Encoder	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
	Transport Stream		DVB-ASI 1port
	Connector		BNC (75 Ω)
	Packet Format		188 Byte
	Output Level		800 mVp-p
TS Input	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
Ethernet	Broadcasting		Multicast, Unicast
	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 Requirement		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