

RAMe 7000

SD/HD MPEG-2 & AVC/H.264 Encoder

RAMe HD is a power-efficient, full-featured MPEG2 and AVC/H.264 SD/HD Encoder with broadcast professional quality encoding. It supports MPEG-2 or H.264 compression. RAMe HD has various input and output interfaces. The video input can be from SDI or HDMI while the audio input can be embedded audio, AES EBU or via HDMI interface. The encoder provides IP as well as the DVB ASI output that meets DVB TS stream standard. The product is ideal for a broad range of applications including contribution and distribution.



KEY FEATURES

- Multi-codec support: capable of MPEG-2 or AVC/H.264 encoding of SD / HD video
- Advanced MPEG-4 AVC HP@L4 video compression
- CBR, VBR and capped-VBR bit rate control
- Real-time Transport Protocol (RTP) and User Datagram Protocol (UDP) support
- Multicast and Unicast support
- Time to Live (TTL) support
- DVB-ASI output
- Supports multiple HD formats including 1080i, 1080PsF24 and 720p
- I, IP and IPB encoding with configurable GOP structure and selectable open/closed GOP
- Built-in power trip feature to protect the encoder from power surge.
- Pass-through of MPEG-1 Layer II and AAC-LC encoded audio (Mono, Stereo and 5.1 channels)
- Scale-down from HD or SD to low resolution video to support 1Seg video signals for broadcast to mobile devices in resolutions as specified by the ISDB-T, DVB-H and ATSC-M/H standards
- Feature to adjust the audio volume prior to encoding
- Various video filters available to remove noise and improve the video quality
- PSI/SI information creation
- PCR correction to accurately correct several PCR of the input data
- SNMP v2 Support.

VIDEO SPECIFICATIONS

Video Compression	:	MPEG2 & AVC/H.264
Video Processing	:	Horizontal Blur Inverse Telecine Detection Fade detection Scene change Detection Deblocking MCTF Motion Estimation Skin Tone Detection Weighted Prediction
Resolutions (HD)	:	1920x1080 at 60i, 59.94i, 50i, 30p, 29.97p, 25p, 24p, 23.97p4 1280x720 at 60p, 59.94p, 50p
Resolutions (SD)	:	720x480 at 59.94i, 60i 720x576 at 50i
Encoding Bit-Rate	:	100 Kbps to 20 Mbps
Profiles and Levels	:	H.264 Baseline, Main, High Up to L4.1 MPEG2 High & Main Profile, Main Level

AUDIO SPECIFICATIONS

Audio Formats	:	MPEG Layer II, Dolby Digital (AC-3)*, AAC, AC-3 pass-through
Operating Modes	:	Mono, Dual channel*, Stereo, Joint stereo
Encoding Bit-Rate	:	MPEG Audio Layer II : 192 to 384 Kbps Dolby Digital (AC-3) : 128 to 384 kbps AAC : 32 to 384 kbps
Sampling Frequencies	:	32 kHz, 44.1 kHz, 48 kHz

ORDERING INFORMATION

RAME - 7012



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INPUTS AND OUTPUTS

Video Inputs	:	SD/HD SDI, HDMI
Audio Inputs	:	Analog, AES-EBU, SDI, HDMI
Outputs	:	MPEG TS over IP, ASI
Streaming	:	RTP/UDP, unicast or multicast Configurable packet size

POWER

Input Voltage Range	:	100-240 VAC
Line Frequency	:	50-60 Hz
Typical Consumption	:	74 W (8 Channels)

ENVIRONMENTAL

Cooling	:	air flow front to side
Operating Temp.	:	Range 0° to 40° C (32° to 122° F)
Storage Temp.	:	Range -20° to +80° C (-4° to +176° F)
Operating Humidity	:	< 95% non-condensing

PHYSICAL

W x H x D	:	48.26 cm x 4.6 cm x 68cm
	:	19" x 1.75" x 25.7"
Weight	:	24 lbs. / 11 kg

MANAGEMENT

Port	:	Ethernet Port (10/100BaseT)
Protocols	:	HTTPS, SSH, Telnet
Configuration	:	Web Interface