

TRINETRA

IP ENCODER (8 A/V + 1 HD-SDI to IP)

The TRINETRA Encoder-A *new standard in Encoding*” is a professional digital headend encoder system. It has provision for 8 AV (CVBS) +1 HD (HD-SDI) inputs and 1 Ethernet IP port to stream out the data for broadcast purpose. This will also have one ethernet management port for system control & parameter configuration from GUI. The product has been designed for the application of cable TV and IPTV broadcasting.



Features:

- High quality professional audio video encoder.
- Multi-format encoder: 8 SD & 1 HD MPEG-2 / MPEG-4 channels per module.
- Compact: 9 modules in 5U 19” rack (72 SD + 9 HD channels).
- Low power consumption: Less than 2W per channel.
- Supports low bit rate encoding up to 1 Mbps (SD) & 3 Mbps (HD).
- Streaming UDP or RTP data (SPTS /MPTS) using GbE port (RJ45).
- Future on site upgrades for audio leveling, dual language etc.
- Supports Web GUI user interface for module configuration.
- Manufactured in India by Catvision Unitron - a joint venture.

Specifications:**Technical Specifications - Analog input (8x):**

Standard	Composite video (CVBS)
	Stereo audio (unbalanced) or dual mono
Video resolution	PAL(720x576i), NTSC (720x480i)
Video compression	MPEG-2 /H.264 AVC
Video encoding bitrate	1.0 ~10Mbps
Audio sampling	32KHz, 44.1KHz, 48KHz (each channel)
Audio resolution	16-bit per sample
Audio compression	MPEG-1 Layer II
Audio encoding bitrate	64, 96, 112, 128, 160, 192, 224, 256, 320, 384(kbps) (each channel)

Technical Specifications – Digital input (1x):

Standard	HD-SDI (SMPTE 292M, SMPTE 299M)
Video resolution	1920x1080i/1440x1080i/1280x720p
Video compression	H.264 AVC
Video encoding bitrate	3~ 20Mbps
Audio sampling	48KHz, Stereo (embedded)
Audio resolution	16-bit per sample
Audio compression	LC/HE-AAC
Audio encoding bitrate	64, 128, 192, 256, 384, 576 Kbps(AAC-LC Mode)
	32, 64, 96, 128, 192, 288 kbps (HE-AAC Mode)

Management & Streaming:

Connector	RJ-45
Standard	Ethernet 100/1000 Base-T
Version	IPv4
Mode	Full-duplex

Specifications – Mechanical:

Dimensions	5RU x 8TE x 335mm
Rackable	Yes, DMH chassis
Front LED indications	
A/V Sync (Digital)	1x G
A/V Sync (Analog)	8x G
Power	1x G
Alarm	1x R
Interfaces (front)	
Power supply	4x Banana (R/B)
Management port	1x RJ-45
Streaming port	1x RJ-45
Digital A/V input	1x BNC
Interfaces (rear)	
Analog A/V input	8x3 RCA (Y/R/W)

Web User Interface:

- ✓ Easy to access just write 'START' in to browser.
- ✓ Status at a glance
- ✓ SW Upgradable direct from GUI
- ✓ Import/Export of the parameter settings
- ✓ Direct restart from web
- ✓ Configurability options for service name, service provider & ONID direct from Encoder.
- ✓ Real time monitoring of the module temperature.
- ✓ Easy to navigate

DMH Web Interface

CATVISION UNITRON TRINETRA

DMH Web Interface 5240 - TRINETRA AV-IP

System Information

Module 30 °C

Software Version: 1.0.0 Beta-1
 Release Date: Dec 20 2013 - 14:55:03
 Serial Number: 1402020000081

Services

Channel	Input	Lock	Name	Service Type	Destination Network	Streaming
1	-	<input type="radio"/>	service 1	[SD] MPEG2 MPEG1-L2	udp://224.1.1.1.49152	✗
2	-	<input type="radio"/>	service 2	[SD] MPEG2 MPEG1-L2	udp://224.1.1.1.49154	✗
3	-	<input type="radio"/>	service 3	[SD] MPEG2 MPEG1-L2	udp://224.1.1.1.49156	✗
4	-	<input type="radio"/>	service 4	[SD] MPEG2 MPEG1-L2	udp://224.1.1.1.49158	✗
5	-	<input type="radio"/>	service 5	[SD] MPEG2 MPEG1-L2	udp://224.1.1.1.49160	✗
6	-	<input type="radio"/>	service 6	[SD] MPEG2 MPEG1-L2	udp://224.1.1.1.49162	✗
7	PAL	<input checked="" type="radio"/>	service 7	[SD] MPEG2 MPEG1-L2	udp://224.1.1.1.49164	✔
8	-	<input type="radio"/>	service 8	[SD] MPEG2 MPEG1-L2	udp://224.1.1.1.49166	✗
9	-	<input type="radio"/>	service 9	[HD] H 264 AAC-LC	udp://224.1.1.1.49168	✗

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