

# A-Coder™ Analog/10ch/ASI+IP

Broadcast Quality, Full Featured, Magnum Chip Based, Remotely Manageable, 1 RU, 4 to 10 Channel Standard Definition MPEG-2 and H.264 Encoder and Multiplexer with up to 10 CVBS Inputs and Simultaneous ASI and IP Outputs. Audio Support Includes Analog In, MPEG-1 Layer II or MPEG-2 AAC Out. Features Dual Power Supply and Advanced Video Filtering, plus Jitter-Free, Industry Compliant Transport Streams. Tested to Work with Most Decoders and with Atlas™, Wowza™ and Adobe® Flash® Servers. Ships with your Choice of 4, 6, 8, or 10 Channels.



## Features

- Encodes Analog (CVBS) video to ASI and/or IP
- Inputs: Composite video – 4, 6, 8, or 10 inputs, depending on system ordered
- Outputs: Simultaneously multiplexes transport streams into
  - Two identical ASI outputs (one main, one backup)
  - One muxed IP output (UDP/ RTP)
- Supports IP unicast and multicast
- ASI output bit rate: Up to 70 Mbps
- Resolutions: 720x480/60i, 720x576/50i
- Supports VBR or CBR – Unusual Feature
- Audio Input: Analog
- Audio Output: MPEG-1 Layer II and MPEG-2 AAC
- Configure and operate via front panel controls or remote management
- Magnum chip based – results in incredible quality

## Applications

- Re-encoding analog video for transmission over satellite uplinks or cable (ASI)
- Encoding analog video for transmission over IP
- Delivery of live video program streams to the head-end or production studio
- Analog front end for video servers

## Overview

Analog video sources are still plentiful in today's world. The A-Coder™ Analog/10ch/ASI+IP is DVEO's standard definition H.264/MPEG-2 encoder. It also multiplexes 4, 6, 8, or 10 composite inputs into simultaneous IP and dual DVB-ASI outputs – or encodes up to 10 inputs to up to 10 individual IP streams.

The A-Coder Analog/10ch/ASI+IP delivers MPEG-2 and H.264 video at low bit rates of .8 to 20 Mbps.

The system includes LCD front panel controls and remote management software. Audio output is MPEG-1 Layer II and MPEG-2 AAC.

The A-Coder Analog/10ch/ASI+IP is Magnum chip based. Due to their long experience, Magnum Semiconductor created one of the world's best quality encoder chips. One look and you will be impressed.

## Sample GUI



Parameters Configuration

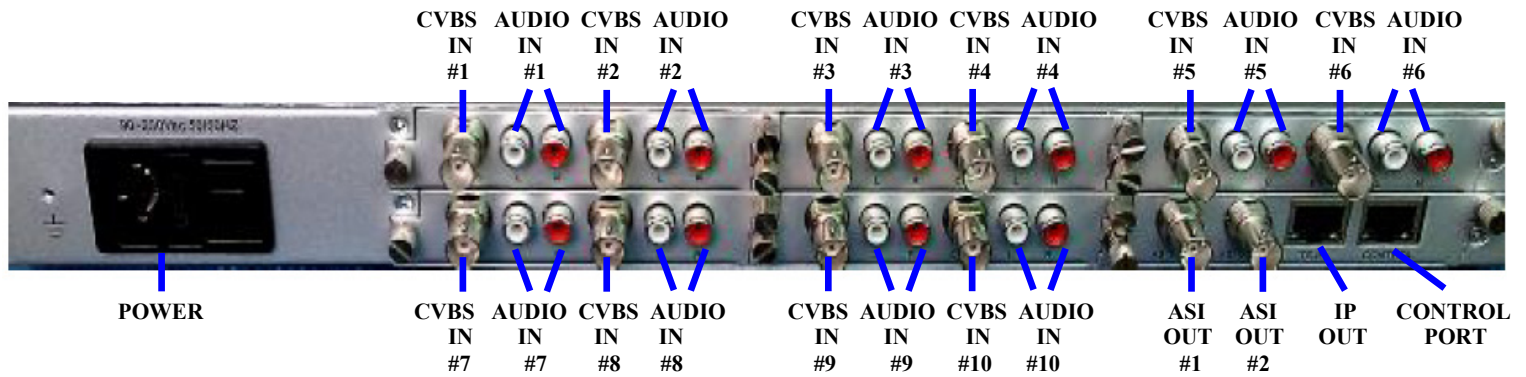


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## Rear View



## Specifications

### Video Inputs

Analog:	Composite (CVBS) – 4, 6, 8, or 10 inputs, depending on system ordered
Connectors:	BNC type, 75 Ohm
Formats:	NTSC or PAL

### Audio Input

Analog:	Un-balanced Analog, RCA type, Hi-impedance – 4, 6, 8, or 10 inputs, depending on system ordered
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### Video Encoding

Standards:	H.264/MPEG-2 encoding, standard definition
Mode:	MPEG-2 MP@ML
Resolutions:	720x480/60i, 720x576/50i
A/D Precision:	10 bits
Average Bit Rate:	800 to 20000 Kbps
Max/Min Bit Rate (VBR only):	Maximum: 1500 to 22000 Kbps Minimum: 600 to 18000 Kbps
Rate Control Modes:	CBR, VBR
GOP Modes:	Automatic, IBBP, IPPP or IBP

### Audio Encoding

Formats:	MPEG-1 Layer II and MPEG-2 AAC
Sampling Rate:	48 KHz
Audio Bit Rates:	MPEG-2 AAC: 64/ 128/ 192/ 256/ 320/ 384 Kbps MPEG-1 Layer II: 192/ 256/ 320/ 384 Kbps
Audio Gain:	-12, -6, 0, +6 dB, +12 dB

### Re-multiplexing

Re-multiplexing:	Up to 10 internal encoded SPTS inputs
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### ASI Outputs

Dual ASI outputs:	1 main port, 1 back-up port
Connectors:	BNC type, 75 Ohm
Packet Length:	188/204
ASI output bit rate	1-70 Mbps

### IP Outputs

Output:	TS over IP
Connector:	RJ-45
Interface Type:	100/100 Base-T
Format:	UDP/IP, RTP/IP
IP Address Format:	Multicast, Unicast
Supports both of the two IP modes:	IPD: Up to 10 IP output ports, where Port 1-10 corresponds to encoder 1-10 IPM: One multiplexed IP output
TS Bit Rate:	1-70 Mbps (ASI and IP ports will have same bit rate)

### Control & Monitoring

Front Panel Controls:	2x20 LCD display, Control keys Configuration and Alarm messages
Remote:	Remote control via 10/100M Ethernet Web-based management software controls the unit and detects alarms remotely

### Physical & Power

Power Supply:	90-230VAC, 50/60 Hz, dual power in one socket
Power:	<45W
Dimensions – 1 RU 19 inch rack:	19" (W) x 13" (D) x 1.7" (H) 48.3 cm (W) x 35.5 cm (D) x 4.3 cm (H)
Weight:	13.23 lbs (about 6 Kg)
Operating Temp.:	+0 ~ +50°C (32 to 122°F)
Storage Temp.:	--20 ~ +50°C (-4 to 122°F)
Conformities:	FCC, CE, RoHS

## Ordering Info

A-Coder Analog/X: X = Number of Analog inputs in pairs.