

# MPEG Corona™

**Real Time, Easy To Use, Affordable,  
1 RU, Standard Definition, Full D1 Res,  
Hardware Based, 4:2:0 MPEG-2  
Transport Stream Encoder with SDI,  
Composite, and Y/C Inputs and IP and  
DVB-ASI Outputs. Encodes at 0.8 to 20  
Mbps. Controllable via LCD Front  
Panel or Network Management.**



MPEG-2

DVB  
Digital Video  
Broadcasting



## Features

- Encodes Composite (CVBS), Y/C, or SDI video to ASI and/or IP
- Inputs: Composite, Y/C, or SDI
- Outputs: Two DVB-ASI outputs, one IP output (UDP unicast/multicast)
- Fully MPEG-2 4:2:0 MP@ML video compliant
- MPEG-1 Layer II audio encoding
- Advanced video pre-processing algorithms
- Encoding selectable from 0.8 Mbps to 20 Mbps transport stream bit rates
- Supports MPEG-2 frame/field motion estimation and DCT
- Encoding parameters set up via LCD front panel or network management
- Supports Video/Audio/PMT/PCR PID settings
- Supports balanced and unbalanced analog audio inputs
- Supports AES/EBU, SD-SDI digital audio input
- Supports PAL and NTSC SD video
- Supports D1, HD1, 2/3 D1, 3/4 D1 resolutions
- Program/Service Provider name setting
- Complies with ISO/IEC 11172 (MPEG-1) and ISO/IEC 13818 (MPEG-2) standards
- Sub-pixel precision encoding
- TS stream PCR synchronization

## Applications

- Encoding analog video for transmission over satellite uplinks or cable
- Delivery of live video program streams to the head-end or production studio
- General Head End encoder

## Overview

The **MPEG Corona** encodes analog or SDI video and audio into MPEG-2 Transport Streams – from video to DVB-ASI and/or IP. It accommodates both PAL and NTSC video formats.

The MPEG Corona compresses and encodes SDI, composite, or S-Video signals and stereo audio in real time, using MPEG-2 4:2:0 video and MPEG-1 Layer-II audio compression. It then multiplexes the video and audio streams into either one or two DVB-compliant MPEG-2 Transport Streams, and/or an IP transport stream.

This is a cost-effective solution for converting analog video to ASI for transmission over standard DVB satellite uplinks or redistribution throughout a cable system.

The MPEG Corona delivers excellent broadcast-quality video. It is fully compliant with the stringent DVB standards.

The MPEG Corona is simple to configure and operate. The LCD front-panel interface provides easy setup without the use of a computer or any other external equipment. The system can also be remotely controlled via network management.

**DVEO**  
Digital Video ExtraOrdinaire™

Computer Modules, Inc.

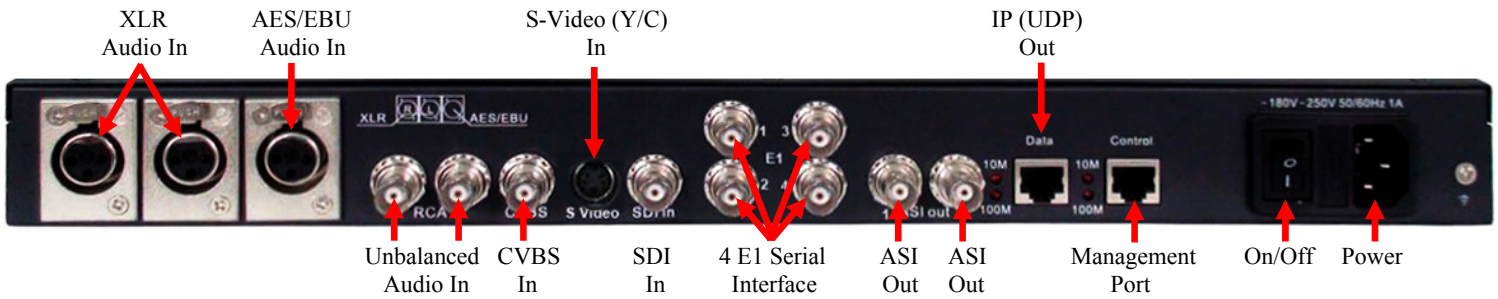
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# Inputs/Outputs



## Specifications

### Inputs

Video:	Analog composite video (CVBS), BNC interface S-Video (Y/C) interface SD-SDI, BNC interface
Audio:	Analog stereo audio (balanced), XLR interface Analog stereo audio (unbalanced), BNC interface AES/EBU digital audio, XLR interface SD-SDI embedded audio

### Video Encoding

Resolutions:	720 x 480 60i, 720x576 50i (D1) 544 x 480 60i, 544x576 50i (3/4D1) 352x480 60i, 352x576 50i (HD1) 480x480 60i, 480x576 50i (2/3D1)
Encoding:	MPEG-2 MP@ML (4:2:0)
Bit Rate:	0.8 Mbps~20 Mbps
Rate Control:	CBR/VBR
GOP Structure:	IBBP
Advanced Pretreatment:	De-interlacing, noise reduction, sharpening

### Audio Encoding

Encoding:	MPEG-1 Layer II
Sampling Rate:	48 KHz, 44.1 KHz, 32 KHz
Resolution:	24-bit
Bit Rate:	64 Kbps to 384 Kbps

### Transport Stream Outputs

ASI:	Two DVB-ASI outputs, BNC interface
IP:	SPTS over UDP, 10/100Base-T Ethernet interface (UDP unicast/multicast)

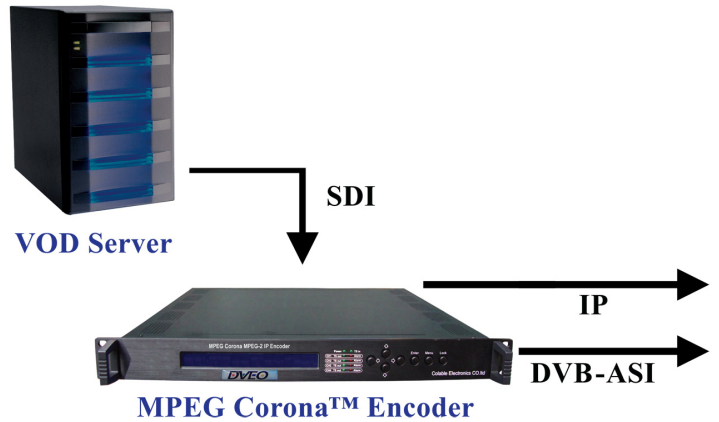
### Administration

Access:	LCD front panel, network management
Upgrades:	Ethernet software upgrade

### Physical and Power

Dimensions:	18.9 x 17.96 x 1.77 inches (W x D x H) 480 x 456 x 45 mm (W x D x H)
Weight:	10 lbs (4.54 kg)
Power Requirements:	AC 110V±10%, 50/60 Hz or AC 220V±10%, 50/60 Hz
Temperature Range:	Operating: 0°C ~ +45°C Storage & Shipping: -20°C ~ +80°C
Conformities:	FCC, CE, RoHs

## Typical Application



## Ordering Info

MPEG Corona



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