

HCoder™ 4-16ch HD-SDI+HDMI/IP

Real time Linux® based multichannel HDMI AVC/H.264 audio and video HD live encoder with 4 to 16 HD-SDI and/or HDMI inputs and 4 to 16 IP outputs. Supports input and output resolutions up to 1080p at 60 fps. Streams to Ustream and Atlas™, Wowza®, and Adobe® Flash® Servers. Optional HD-SDI and/or HDMI and CVBS version available.



16PCS 1 Port HDMI Encoder in 3U Chassis

1 Main Power supply 1 for backup



Features

- Inputs: Simultaneously captures up to 16 HD-SDI and/or HDMI inputs (Ships with HD-SDI to HDMI adapters)
- Outputs: 16 simultaneous IP TS streams (RTMP or UDP)
- Outputs two RTMP streams per channel (main stream & 2nd Stream) to different media servers
- IP output protocols: RTMP, RTSP, UDP, HTTP, HLS, FLV and ONVIF
- Output resolutions: 1920x1080, 1680x1056, 1280x720, 1024x576, 850x480, 720x576, 720x540, 720x480, 720x404, 704x576, 640x480, 640x360, 608x448, 544x480, 480x480, 480x384, 480x360, 480x320, 480x272, 480x270, 400x320, 400x224, 352x480, 352x228, 320x256, 320x240, 320x180, 240x180, 176x144
- Audio encoding: AAC
- Adjustable output stream bit rate – 0.1 to 32 Mbps
- Can insert text and .BMP photos as stream logo for main stream & second stream
- Remotely manageable
- Supports firmware upgrades
- Low power consumption – 90 watts
- Optional version available with 4 to 16 HD-SDI and/or HDMI inputs plus 4 to 16 CVBS inputs

Applications

- reEncoding content for Dormitories and Apartments
- Streaming video to CDNs and web sites like Ustream®, Akamai®, Octoshape™, Verizon®, etc.
- NVR (Net Video Recorder)
- University or corporate training webcasts
- Hotel or cruise ship TV systems
- Video Conferencing
- Digital Signage

Overview

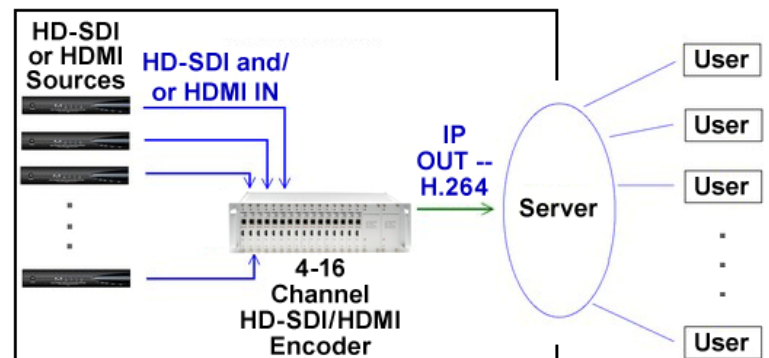
HDMI is the low cost connection for digital uncompressed video. Many video devices including cameras, DVD players, and video stream decoders output HD via HDMI to television sets. HD-SDI is the most popular infrastructure within most modern production studios in the world. It is tried and true and does not create generational losses.

H.264 has become the de facto standard for delivering video over IP.

DVEO's new H.264 HD audio & video encoder, the HCoder 4-16ch HD-SDI+HDMI/IP, is a cost effective 4 to 16 channel HDMI to IP and/or HD-SDI to IP encoder. It encodes up to 16 simultaneous HD-SDI and/or HDMI inputs, then streams up to 16 IP streams to CDNs and web sites like Ustream®, Akamai®, Octoshape™, Verizon®, etc. IP protocols can be RTMP, RTSP, UDP, HTTP, HLS, FLV Stream Protocols and/or ONVIF.

The system includes remotely manageable Windows® based software. Audio encoding is AAC.

Block Diagram



DVEO
Digital Video ExtraOrdinaire™

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Inputs/Outputs

HD-SDI+HDMI to IP



4-16 HDMI and/or HD-SDI Inputs (via HD-SDI to HDMI adapters)
4-16 IP Output Ports

Optional HD-SDI+HDMI CVBS to IP



4-16 HDMI and/or HD-SDI Inputs (via HD-SDI to HDMI adapters)
4-16 HDMI Inputs, 4-16 CVBS Inputs, 4-16 IP Output Ports

Specifications

Video Encoding

Inputs:	16 simultaneous HD-SDI and/or HDMI inputs (Ships with HD-SDI to HDMI adapters) Option: Additional 16 CVBS inputs
Encoding:	H.264/AVC High Profile Level 4.0
HDMI Input Resolutions:	Maximum resolution 1920 x 1080p@60 Hz
Data Rate:	0.1 to 32 Mbps Optional HDMI+CVBS version: 0.8 to 12 Mbps
Rate Control Modes:	CBR, VBR
GOP Structure:	IBBP
Advanced Pretreatment:	De-interlacing, Noise Reduction, Sharpening

Audio Encoding

Encoding:	AAC
Sampling Rate:	Auto
Bit Rate:	48K/64K/96K/128K/160K/192K
Sampling Precision:	24 bit
Data Rate:	64 Kbps~384 Kbps

IP Outputs

Outputs:	16 simultaneous IP streams
Interface:	100 Base-T Ethernet
Resolution:	Maximum resolution 1920 x 1080p@60 Hz Optional HDMI+CVBS version: Maximum resolution 1920 x 1080p@30 Hz, 720p@60 Hz
Protocols:	RTMP, RTSP, UDP, HTTP, HLS, FLV, ONVIF Optional HDMI+CVBS version: RTMP, RTSP, UDP, HTTP, ONVIF

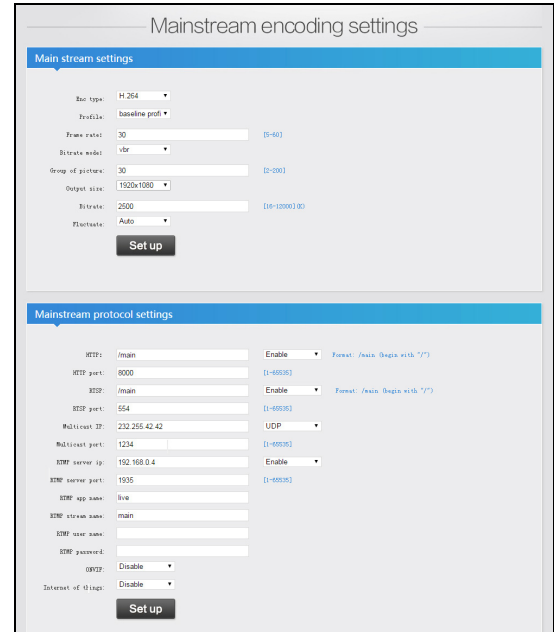
System

User Interface:	Web default IP – http://192.168.1.168/indexE.html HDMI+CVBS Option: Web default IP – 192.168.0.31
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Physical and Power

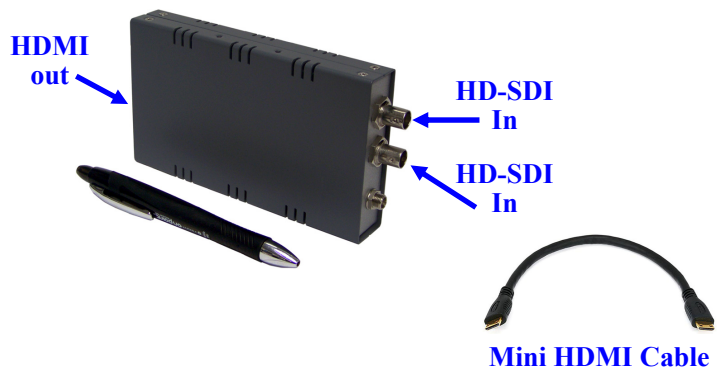
Dimensions (W x D x H):	19 x 11.8 x 5.24 inches (483 x 300 x 133 mm)
Weight:	14.33 lbs (6.5 Kg) HDMI+CVBS Option: 15.43 lbs (7 kg)
Power Supply:	110-220V
Power Consumption:	90W
Conformities:	FCC, CE

Sample GUI



Sample Configuration Screen

Ships with HD-SDI to HDMI Adapters



Ordering Info

HCoder XX HDMI/IP: XX = Number of Channels
 HCoder XX HD-SDI/IP: Ships with HD-SDI to HDMI adapters
 CVBS option – HCoder 4-16ch HD-SDI+HDMI+CVBS/IP



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