HCoder™ 4-16ch Analog/IP
Real time Linux® based
multichannel Analog CVBS
(composite) AVC/H.264 audio and
video HD live encoder with 4 to 16
CVBS inputs and 4 to 16 IP outputs.
CVBS output streams same
resolution as input. Streams to
Ustream and Atlas™, Wowza®, and
Adobe® Flash® Servers. Optional
HDMI version available.

Features
• Inputs: Simultaneously captures up to
16 Analog inputs
• 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, and ONVIF
• Output resolution: Same resolution as
input
• Audio encoding: AAC
• Adjustable output stream bit rate – 0.8 to
12 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
HDMI 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
Analog is the low cost connection for digital uncompressed
video. Many video devices including cameras, DVD players,
and video stream decoders output HD via Analog to television
sets.

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 Analog/IP, is a cost effective 4 to 16 channel Analog
to IP Encoder. It encodes up to 16 simultaneous Analog
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 Stream
Protocols and/or ONVIF.

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

Block Diagram
Inputs/Outputs

CVBS Inputs

4-16 Analog Inputs, 4-16 IP Output Ports

Specifications

<table>
<thead>
<tr>
<th>Video Encoding</th>
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<tbody>
<tr>
<td>Inputs:</td>
<td>16 simultaneous Analog (CVBS) inputs</td>
<td></td>
</tr>
<tr>
<td>Encoding:</td>
<td>H.264/AVC High Profile Level 4.0</td>
<td></td>
</tr>
<tr>
<td>Data Rate:</td>
<td>0.8 to 12 Mbps</td>
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<tr>
<td>Rate Control Modes:</td>
<td>CBR, VBR</td>
<td></td>
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<tr>
<td>GOP Structure:</td>
<td>IBBP</td>
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<tr>
<td>Advanced Pretreatment:</td>
<td>De-interlacing, Noise Reduction, Sharpening</td>
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Audio Encoding

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Encoding:</td>
<td>AAC</td>
</tr>
<tr>
<td>Sampling Rate:</td>
<td>Auto</td>
</tr>
<tr>
<td>Bit Rate:</td>
<td>48K/64K/96K/128K/160K/192K</td>
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<tr>
<td>Sampling Precision:</td>
<td>24 bit</td>
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<tr>
<td>Data Rate:</td>
<td>64 Kbps–384 Kbps</td>
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IP Outputs

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<table>
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<tr>
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<tbody>
<tr>
<td>Outputs:</td>
<td>16 simultaneous IP streams</td>
</tr>
<tr>
<td>Interface:</td>
<td>100 Base-T Ethernet</td>
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<tr>
<td>Resolution:</td>
<td>CVBS output streams same resolution as input</td>
</tr>
<tr>
<td>Protocols:</td>
<td>RTMP, RTSP, UDP, HTTP, ONVIF</td>
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System

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>User Interface:</td>
<td>Web default IP – 192.168.0.31</td>
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Physical and Power

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<tbody>
<tr>
<td>Dimensions:</td>
<td>19 x 11.8 x 5.24 inches (W x D x H) 483 x 300 x 133 mm (W x D x H)</td>
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<tr>
<td>Weight:</td>
<td>15.43 lbs (7 kg)</td>
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<tr>
<td>Power Supply:</td>
<td>110-220V</td>
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<tr>
<td>Power Consumption:</td>
<td>90W</td>
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<td>Conformities:</td>
<td>FCC, CE</td>
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</table>

Sample GUI

Sample Configuration Screen

Ordering Info

HCoder 4-16ch Analog/IP
HDMI Option -- HCoder 4-16ch HDMI/IP