** Features **

- **Inputs:** Simultaneously captures up to 16 HDMI 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, HLS, FLV and ONVIF
- **Output resolutions:** 1920x1080, 1680x1056, 1280x720, 1024x576, 720x540, 720x480, 720x404, 704x576, 640x480, 640x360, 608x448, 544x480, 480x480, 480x384, 480x360, 480x320, 480x272, 480x270, 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 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.

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 HDMI/IP, is a cost effective 4 to 16 channel HDMI to IP Encoder. It encodes up to 16 simultaneous 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 **
## Inputs/Outputs

### HDMI to IP

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

### Optional HDMI+CVBS to IP

- 4-16 HDMI Inputs, 4-16 CVBS Inputs, 4-16 IP Output Ports

## Specifications

### Video Encoding

| Inputs: | 16 simultaneous HDMI inputs  
| 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  
| Rate Control Modes: | CBR, VBR  
| GOP Structure: | IPPP  
| Advanced Pretreatment: | De-interlacing, Noise Reduction, Sharpening  
| Optional HDMI+CVBS version: | 0.8 to 12 Mbps  

### 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  

### System

| HDMI+CVBS Option: | Web default IP – 192.168.0.31  

### 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

### Mainstream encoding settings

- **Resolution:** 1920 x 1080p@60 Hz  
- **Bit Rate:** 10 Mbps  
- **Sampling Rate:** 24 kbit/s  
- **Sampling Precision:** 24 bits  
- **Data Rate:** 64 Kbps~384 Kbps  

### Mainstream protocol settings

- **RTMP:** 192.168.1.168  
- **RTSP:** 192.168.1.168  
- **HTTP:** 192.168.1.168  
- **HLS:** 192.168.1.168  
- **FLV:** 192.168.1.168  
- **ONVIF:** 192.168.1.168  

## Ordering Info

**HCoder 4-16ch HDMI/IP**  
**CVBS option – HCoder 4-16ch HDMI+CVBS/IP**