265Coder™ 4-16ch HD-SDI/IP

Real time Linux® based multichannel HD-SDI H.265/HEVC audio and video HD live encoder with 4 to 16 HD-SDI 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. Also supports H.264/AVC encoding.

Features
- Inputs: Simultaneously captures up to 16 HD-SDI inputs
- Outputs: 16 simultaneous IP TS streams
- IP output protocols: RTSP, UDP, HTTP, HLS, FLV and ONVIF
- Outputs two RTMP streams per H.264 channel (main stream & 2nd Stream) to different media servers
- Output resolutions: 1920x1080, 1680x1056, 1280x720, 1024x576, 720x540, 720x480, 704x576, 640x480, 640x360, 608x448, 544x480, 480x480, 480x384, 480x360, 480x320, 480x272, 480x270, 400x224, 352x480, 352x228, 320x256, 320x240, 320x180, 240x180, 176x144
- Audio encoding: AAC, AAC+, AAC++, and MP3
- Adjustable output stream bit rate – 0.1 to 32 Mbps
- Can insert text and .BMP photos as stream logo for main stream & second stream
- Supports image quality settings: brightness, contrast, hue, saturation
- 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

H.265 HEVC is the widely anticipated codec that is designed to replace H.264 as the mainstay of the IP video delivery industry. Just like H.264, it is being developed via international collaboration by major corporations, academia, and individuals. It is now in its finalization phase and by all reports works well.

DVEO's new H.265/HEVC audio & video encoder, the 265Coder 4-16ch HD-SDI/IP, is a cost effective 4 to 16 channel HD-SDI to IP Encoder. It encodes up to 16 simultaneous HD-SDI inputs, then streams up to 16 IP streams to CDNs and web sites like Ustream®, Akamai®, Octoshape™, Verizon®, etc. The system also supports H.264/AVC encoding.

IP protocols can be RTSP, UDP, HTTP, HLS, FLV Stream Protocols and/or ONVIF, plus RTMP for H.264 only.

The 265Coder 4-16ch HD-SDI/IP includes remotely manageable Windows® based software. Audio encoding is AAC, AAC+, AAC++, and MP3.

Block Diagram
**Inputs/Outputs**

**HD-SDI to IP**

4-16 HD-SDI Inputs, 4-16 IP Output Ports

**Optional HDMI to IP**

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

**Specifications**

**Video Encoding**
- Inputs: 16 simultaneous HD-SDI inputs
  - Option: 16 HDMI inputs instead of HD-SDI
- Encoding: H.265/HEVC
- HD-SDI Input Resolutions: Maximum resolution 1920 x 1080p@60 Hz
- Data Rate: 0.1 to 32 Mbps
- Rate Control Modes: CBR, VBR
- GOP Structure: IBBP
- Advanced Pretreatment: De-interlacing, Noise Reduction, Sharpening

**Audio Encoding**
- Encoding: AAC, AAC+, AAC++, MP3
- Sampling Rate: 44.1K /48K
- Bit Rate: 12K ~ 320K
- Sampling Precision: 24 bit

**IP Outputs**
- Outputs: 16 simultaneous IP streams
- Interface: 1000 Base-T Ethernet
- Resolution: Maximum resolution 1920 x 1080p@60 Hz
- Protocols: RTSP, UDP, HTTP, HLS, FLV, ONVIF
  - H.264 only: RTMP

**System**

**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)
- Power Supply: 110-220V
- Power Consumption: 90W
- Conformities: FCC, CE

**Ordering Info**

265Coder 4-16ch HD-SDI/IP
HDMI option – 265Coder 4-16ch HDMI/IP

© 2018 Computer Modules, Inc.  DVEO and 265Coder are trademarks of Computer Modules, Inc.  All other trademarks and registered trademarks are the properties of their respective owners.  All rights reserved. Specifications are subject to change without notice.