



## XVC HD HDMI ENCODER



### ▶ KEY FEATURES

- 1080p60 blue-ray quality video over IP network
- H.264, base line, high and main profile
- Advanced algorithms for maximizing bitrate and image quality
- Advanced 3D noise reduction
- Dual HDMI inputs
- Ultra low end to end latency, approx. 120ms
- RTP, RTSP/RTP, MP2TS(\*) and RTMP streaming protocols
- Web interface/ HTTP control
- 24/7 reliability with no moving parts

### ▶ APPLICATIONS

- Professional Broadcast
- Video distribution point-to-point and point-to-multipoint
- Web casting and live streaming
- Medical
- UAV/UGV and robotics
- Defense
- Audio/video Surveillance

### ▶ HIGH QUALITY 1080P60 HD VIDEO ENCODING OVER IP

The XVC includes two HDMI inputs. Each video input can be compressed with a different set of encoding parameters. The XVC is capable of encoding a single channel of 1080p60 or two channels of 1080p30.

### ▶ THE XVC ADVANTAGE

XVC encoder is a multi standard, ultra low latency, encoder supporting H.264 compression. The XVC supports multiple streaming protocols including RTP, RTSP/RTP,RTMP enabling the user to stream virtually to any endpoint.

Advance algorithms enable the XVC to control the bit-rate and video quality making it a perfect selection for band-limited channels.

Dynamic ROI (region of interest) allows the user to select area which will receive higher priority during the encoding process.

**VIDEO****Video inputs**

- Dual HDMI 1.4a (supports non HDCP sources only)

**Codec**

- ISO/IEC 14496-10 (H.264/AVC, Base line, High and main profile up to level 4.2)

**Codec Features**

- All parameters can be modified dynamically
- Configurable GOP size, FPS, BPS
- Supports force IDR and IDR frequency
- Supports progressive and field based interlaced coding with different controls
- Supports 8x8 and 4x4 transform size
- Bitrates: from 64Kbps to 30Mbps
- Configurable ROI (region of interest)

**Input Resolution (HD)**

- 1920x1080p60/59.94/50/30/29.97/25 Hz
- 1920x1080i60/59.94/50Hz
- 1280x720p 60/59.94/50/30/29.97/25 Hz
- PC resolutions up to WUXGA (1920x1200@60)

**Output Resolution**

- Arbitrary resolution from 176x144 to 1920x1200

**Encoding Performance**

- Single channel encoding at 1080p60 or dual channel encoding 1080p30
- Frame rate: configurable 1-60 fps

**Video Pre-Processing**

- Noise reduction temporal, spatial, temporal + spatial
- Scaling up/down to any resolution

**AUDIO****Audio inputs**

- HDMI embedded audio

**Audio Compression**

- AAC-LC

**Sample Rate**

- From 8Khz to 48Khz

**Bitrates**

- From 16Kbps to 300Kbps

**NETWORK****Communication Port**

- RJ45
- Ethernet 10/100 Base-T, auto-detect

**Network Protocols**

- Streaming: • RTP/RTSP • RTP streaming (unicast, multicast) • MP2-TS over UDP (\*) • RTMP streaming (\*)
- Other: HTTP, IGMP V1/V2, Telnet client and DHCP client

**Encoder Management**

- WEB Interface
- HTTP Interface
- F/W upgradable
- HTTP API

**PHYSICAL / ENVIROMENTAL**

<b>Dimension (LxWxH)</b>	142x85x38 mm (**)
<b>Weight</b>	390g
<b>Operational temperature</b>	(0-50)° C
<b>Humidity</b>	Up to 95% non condensing
<b>DC Voltage</b>	12V
<b>Max Power Consumption</b>	8-10 W (***)
<b>Connectors</b>	RJ-45, HDMI, DC Power Jack, Push Button, USB
<b>Included accessories</b>	Power supply
<b>Approvals</b>	FCC CFR 47 Part 15 Subpart B Ⓜ EN 55024:2010, 55022:2010/AC:2011 Ⓒ

**Order information**

- XVC-E4FH- 1: Single Channel HDMI Encoder
- XVC-E4FH- 2: Dual Channel HDMI Encoder

\* Licensable module

\*\* Refer to website for detailed mechanical spec.

\*\*\* Depending on the configuration