

# XVC FHD 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
- Single/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 single/dual HDMI inputs. Each video input can be compressed with a different set of encoding parameters. The XVC is capable of encoding a single channel at 1080p60 or two channels at 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 MP2TS, 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.

Specifications subject to change without prior notice. Typical values shown unless min or max is specified

## TECHNICAL SPECIFICATIONS

### VIDEO

#### Video Input

- Single/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

- Dynamic parameters modification
- Configurable GOP size, FPS, BPS
- Supports progressive and field based interlaced
- coding with different controls
- 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 (HD)

- 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 Input

- HDMI embedded audio
- Line in (supported on single channel HDMI encoder)

#### 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

Dimension (LxWxH)	142x85x38 mm (**)
Weight	390g
Operational temperature	(0-50)° C
Humidity	Up to 95% non condensing
DC Voltage	12V
Max Power Consumption	8-11 W (***)
Connectors	RJ-45, HDMI, DC Power Jack, Push Button, USB
Included accessories	Power supply
Approvals	FCC CFR 47 Part 15 Subpart B FC EN 55024:2010, 55022:2010/AC:2011 CE

#### 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

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