

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.

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