

# XVC 3G-SDI 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 3G-SDI 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 3G-SDI 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

- Dual 3G-SDI (Supports SMPTE 425M , SMPTE, 424M, SMPTE 292M, SMPTE 259M-C)

#### 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
- Other

#### 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

- 3G-SDI 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

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, BNC, 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-E4FS- 1: Single Channel 3G-SDI Encoder
- XVC-E4FS- 2: Dual Channel 3G-SDI Encoder

\* Licensable module

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

\*\*\* Depending on the configuration