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.

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

www.xvtec.com • info@xvtec.com
Office: +972-79-3002300 • 24 Ha'nagar St. Hod Hasharon, ISRAEL 4527713

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 Perfomance
- 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

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