

XVE 9310

Dual Channel Encoder Realize 4K/60p



XVE9310 provides advanced features of Ancillary Data transmission or High Efficiency Video Mode on each channel in addition to the features available on XVE9300. XVE9310 can transmit full 3D videos or full HD dual channel videos with built-in TS-MUX. 4K contribution is also possible by cascade connection of two XVE9310.

Key Features

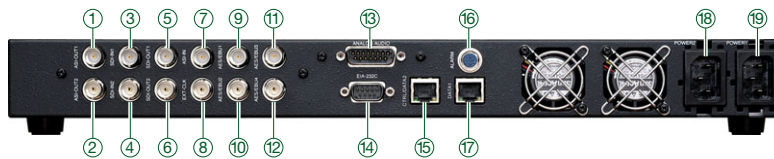
- AVC/H.264 2ch Encoder
- Supports Full HD Stereoscopic 3D Contribution
- 4K Contribution is possible by making Cascade Connection of the two sets of XVE9300
- Super Low Latency Mode (3 Frames, 1 Frame)(optional)
- Super Low Latency Mode with Audio Compression (optional)
- High Efficiency Mode (High Picture Quality at Low Bit Rate)(optional)
- Multiple Video Format Compatibility including 1080i, 1080/60p, 1080/50p, 720p, 576i, 480i
- Embedded Audio Features up to 8ch/4PES
 - MPEG-1 LayerII: Stereo x 4
 - MPEG-2 AAC/MPEG-4 AAC/HE-AAC: 5.1+Stereo
 - Multiple Audio Frmat Support up to 8ch/4PES Combinations
- Closed Caption: EIA-608, EIA-708, ARIB STD-B37
- Ancillary Data Transmission Support: Time Code, SMPTE RDD11, SMPTE2038, ARIB STD-B40, OP-47
- Supports Satellite Carrier ID
- Seamless Bit Rate Change
- TS Over IP Support with FEC
- Supports DHCP
- Easy Operation from Front Panel Display with Control Buttons as well as SNMP and WEB GUI via IP Network
- Supports BISS-1/E (optional)
- Quick Boot-up (23 sec)
- Redundant Power Supply
- RoHS Compliant

Front Panel



- ① Power switch 1
- ② Power switch 2
- ③ Status LEDs
- ④ Display panel
- ⑤ Operator buttons

Rear Panel



- ① ASI-OUT1
- ② ASI-OUT2
- ③ SDI-IN1
- ④ SDI-IN2
- ⑤ SDI-OUT1
- ⑥ SDI-OUT2
- ⑦ ASI-IN
- ⑧ EXT-CLK
- ⑨ AES/EBU1
- ⑩ AES/EBU2
- ⑪ AES/EBU3
- ⑫ AES/EBU4
- ⑬ ANALOG AUDIO (optional)
- ⑭ EIA-232C
- ⑮ CTRL/DATA2
- ⑯ ALARM
- ⑰ DATA1
- ⑱ AC inlet 2
- ⑲ AC inlet 1 (optional)

Specifications

System	ISO/IEC13818-1 (MPEG-2 SYSTEM TRANSPORT STREAM)	Ancillary Data	Data Type	TIMECODE, SMPTE334M, SMPTE2038 *1, ATSC-A72 *1 ARIB STD-B40, ARIB STD-B37 *1
Supported Standards	Video ISO/IEC14496-10 (AVC/H.264)	Internal Test	Signal	Video: Color Bar, Audio: 1kHz Sine wave
Video Specifications	Audio ISO/IEC11172-3 (MPEG-1 AUDIO LayerI) ISO/IEC13818-7 (MPEG-2 AAC) LC Profile ISO/IEC14496-3 subpart 4 (MPEG-4 AAC) LC Profile *1 ISO/IEC14496-3 Amendment 1 (MPEG-4 HE-AAC v1) *1 ISO/IEC14496-5:2001 Amendment 24:2009 (MPEG-4 AAC-ELD) *1 *2 Dolby Digital *1 SMPTE302M-2002	TS Specifications	Output Interface	DVB-ASI: BNC x 2 lines (0.8Vp-p 75Ω) TS multiplexing: Assign the same TS to BNC x 2 TS non-multiplexing: Assign two TS to each BNC x 2 Only one stream: Assign the same TS to BNC x 2 IP *1: 100Base-TX/1000Base-T (RJ-45) x 2 line (Category 5/5e/6) RTP/UDP/IP (RFC1889) , FEC (Pro-MPEG COP#3 R2 method)
	Video Format		External Clock Input	Max. 160.000MHz (ARIB STD B-18 clock input compliant) BNC x 1 line (0.8Vp-p 75Ω)
	Profile / Level		Stream Type	TS (188/204byte: No Reed-Solomon)
	Video Input		Max. Multiplicity	TS multiplexing: Video 2, Audio max. 4, Ancillary Data max. 3 TS non-multiplexing (per 1TS) : Video 1 (Note, for total 2TS, Audio max. 4, Ancillary Data max. 3) Only one stream: Video 1, Audio + Ancillary Data max. 5 (total of 6)
	Video Through Output		Maximum TS Rate	160.000Mbps (internal setting in 1 kbps units)
	GOP Structure		Local Control	Fluorescent display (20 digits x 2) + operator switches (6 buttons)
	Audio Input		Remote Control	LAN 100Base-TX/1000Base-T (RJ-45)
Audio Specifications	Encoding Channels	Maintenance I/O	LAN 100Base-TX/1000Base-T (RJ-45) (joint use with remote control)	
	Encoding Method	Alarm Output	Buzzer (volume adjustable), relay contact outputs (2 NO/NC contacts)	
	Sampling Frequency	External Reset	System reset by relay contact input (1 NO contact)	
	Sampling Bit	Device Monitor Control	SNMP, WEB Based GUI	
	Bitrate	TS encoding	BISS-1/E *1	
		Pass Through	Dimensions	44mm (H) x 432mm (W) x 460mm (D) (excluding protrusions)
			Weight (typical)	6kg or less
			Power Source	100 to 240 VAC (50/60 Hz)
		Power Consumption	70W or less	
		Operating Environment	0 to 45°C, 30 to 90% (condensation not allowed)	
	Other			

*1 "MPEG-4 AAC-LC", "MPEG-4 HE-AAC", "Dolby Digital", "Dolby Digital 4PES", "1080P@60Hz, 59.94Hz, 50Hz, 24Hz, 23.98Hz", "TS over IP", "BISS", and "Ancillary Data" functions are optional.
*2 "MPEG-4 AAC-ELD" and "1080p@60Hz, 59.94Hz" are planned to be supported in the future.
*3 The Analog Audio Input is optional.
Conversion level: +4dBm to -18dBFS, Saturation level: +20dBm

Caution

- In order to ensure correct and safe use, be sure to read the User's manual before use.
- Do not install in locations exposed to water, humidity, steam, dust, or mist. Doing so could cause fire, electric shock, or equipment failure.

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