

ENCODER H.264 / MPEG-2, SD/HD, 4:2:2/4:2:0

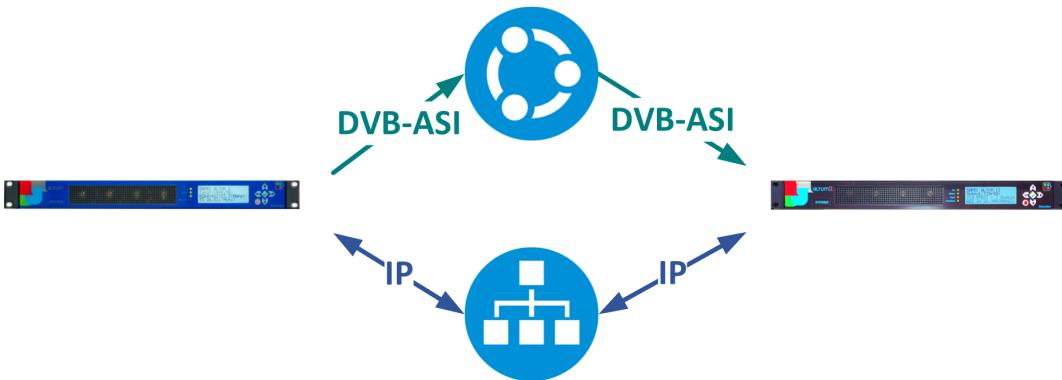
ALTUM II is a video encoder designed with the latest technology for professional Broadcast environments. Altum II guarantees reliability, low latency and high video quality processing for both distribution and contribution.

KEY FEATURES

- Up to 8 embedded audio pairs (stereo)
- Redundancy 1+1, N+1
- Logo Insertion
- RTP/UDP with FEC SMPTE 2022-1/2/7
- Ancillary data and VI
- Hot-swappable redundant PSU (AC/DC)

APPLICATIONS

- Contribution ASI or IP
- Distribution ASI o IP
- Multicast/Unicast
- Encryption BISS 1/E
- Down Conversion HD->SD



Profile \ Model*	AHE6212	AHE6012	AHE4212	AHE4012	AHE2212	AHE2012	AVE6212	AVE6012	AVE4212	AVE4012	AVE2212	AVE2012
SDTV												
MPEG-2 MP@ML	●	●	○	○	●	●	●	●	○	○	●	●
MPEG-2 422P@ML	●	○	○	○	●	○	●	○	○	○	●	○
H.264 HP@L3	●	●	●	●	○	○	●	●	●	●	○	○
H.264 HI422P@L3	●	○	●	○	○	○	●	○	●	○	○	○
HDTV												
MPEG-2 MP@HL	●	●	○	○	●	●	○	○	○	○	○	○
MPEG-2 422P@HL	●	○	○	○	●	○	○	○	○	○	○	○
H.264 HP@L4	●	●	●	●	○	○	○	○	○	○	○	○
H.264 HI422P@L4	●	○	●	○	○	○	○	○	○	○	○	○

●	By default
○	Optional

* Model numbers can slightly vary from the examples given according to the final HW/SW configuration of the unit

TECHNICAL SPECIFICATIONS

VIDEO INPUT

Digital Inputs (Auto-detection)

Num. Of inputs: 1 x BNC (active loop output)

Impedance: 75 Ω

Formats:

HD-SDI (SMPTE 292M): 1080 i25, 1080 i29.94, 1080 i30,

720p50, 720p59.94, 720p60 (**AHE**)

SDI (SMPTE 259M): 625/25Hz, 525/29.97Hz (**AHE and AVE**)

VIDEO ENCODING

Encoding standards and profiles

MPEG-2 MP@ML H.264 HP@L3

MPEG-2 MP@HL H.264 MP@L4 & HP@L4

MPEG-2 422P@ML H.264 Hi422@L3

MPEG-2 422P@HL H.264 Hi422@L4

Management and control

Full configuration via front panel, web interface and SNMP.

Power Supply

Range : AC 100 - 240V 50/60Hz or DC 40 - 60 V

Typical Consumption: < 90 W

Physical characteristics

Dimensions: 19" x 1RU x 500 mm

Weight: 10 Kg

Operational Temp: 0°C to 45°C

HARDWARE OPTIONS

Redundant Power Supply unit

Range : AC 100 - 240VAC, 50/60Hz or DC 40 - 60 VDC

SOFTWARE OPTIONS

Video Encoding

By a license key installation, is possible to the upgrade the equipment to any supported standard and/or profile.

Additional audio PID licenses

MPEG-1LII and MPEG-4 AAC

Dolby AC3 and EAC3 2.0 up to 5.1

Encryption

BISS-1 y BISS-E

Other Options

Logo Insertion

Redundancy N+1.



Bitrate types

CBR (H.264, MPEG-2), **VBR** (H.264)

Resolutions

525: 720 x 480, 704 x 480, 352x 480

625: 720 x 576, 704 x 576, 352 x 576

1080i: 1920 x 1080, 1440 x 1080, 960 x 1080

720 x 576, 704 x 576 (con entrada 50i),

720 x 480, 704 x 480 (con entrada 59.94i)

720p: 1280 x 720, 960 x 720, 640 x 720

AUDIO ENCODING

Num. of inputs: 4 embedded pairs on HD (2 on SD)
4 interfaces AES/EBU

Audio encoding standards

MPEG-1 Layer II (ISO/IEC 11172-3)

MPEG-4 AAC (LC/HE v1, HE v2)

Pass-through Dolby Digital (AC3) and Dolby Digital Plus (EAC3)

PCM and SMPTE 302M (transparent Pass-through) 16/20/24-bits

Dolby Digital (AC3) and Dolby Digital Plus (EAC3) (option)

WWW.SAPEC.ES

OUTPUT INTERFACE

Video over IP

Num. Outputs: 3 x RJ-45 – 2 simultaneous flow

Interface: 3 x 10/100/1000 Mbps

Encapsulation: TS over IP: UDP, RTP with FEC SMPTE 2022-1/2/7
(Multicast/Unicast) , connection control

ASI output interface

Num. Outputs: 2 x BNC (188 byte TS)