2-ch h.264 hd encoder

2-ch H.264 HD Encoder is designed to convert 2 input signals. These signals can be SD or HD standards of HDMI / SDI / CVBS formats. The encoder will convert the signals into MPEG-2 and MPEG-4 (AVC(MPEG-4 Part 10)) standards.

2-ch H.264 HD Encoder combines 2 functions:

- MPEG-4 / MPEG-2 encoder with SDI, CVBS, HDMI inputs;
- 2 programs transcoder in the transport stream.

Encoder or transcoder function is switched by the control program.
Each 2-ch H.264 HD Encoder can generate two streams of the same program to ASI and IP outputs. Additional stream can have a maximum resolution of 720x576i. The maximum resolution of image in the main stream is 1920x1080i. It is usable for broadcasting a program in HD and SD standards. The most important feature of 2-ch H.264 HD Encoder is ability to work with low signal delay up to 100 ms (low delay mode (optional)).

KEY FEATURES:

- Transcoding of an SD/HD program
- The possibility of 2 audio channels transferring in the first coder
- Supports OTA, EPG, DVCrypt CAS 3000/10000/100000 subscribers in transcoder
- Two SDI / two CVBS / two HDMI inputs
- Software switch input signals
- Maximum output bitrate of 15 Mbit/s per channel
- IP outputs. Five adresses. RTP, UDP protocols, multicast, unicast
- Overlaying titles on the signal
- High Profile and Main Profile modes
- Encoding: MPEG-2 HP@HL, MP@HL , MP@ML; MPEG-4 H.264 HP@L4, MP@L3
- Transcoding: MPEG2 > MPEG4, MPEG2 > MPEG2, MPEG4 > MPEG2, MPEG4 > MPEG4
- Selectable MPEG-2 SD or H.264 SD/HD real-time video encoding
- User selectable resolution and bitrate
- The ability to upgrade via Ethernet
- The ability to turn the test signal with the sound

Input	
Audio inputs	4×XLR, 1×HDMI, 2×SDI
Video inputs	2×SDI or 2×CVBS, and 2×HDMI input
Video:	
Resolution	1080i@60; 1080i @59.94; 1080i @50; 576i @50; 480i @59.94
Encoding	MPEG-2 HD/SD; MPEG-4 AVC/H.264 HD/SD
Bitrate	1Mbps~15Mbps (optional 0.5 Mbps~15Mbps)

Rate Control	CBR/VBR
GOP Structure	IPB, IBBP, IPPP
Aspect Ratio	SD - 4:3; 16:9; HD -16:9
Chroma Format	4:2:0
Output	
Outputs	2 ASI, 1 10/100 Base-T Ethernet
Video:	
Resolution	1920x1080, 1440x1080, 960x1080, 720x1080, 1280x704, 1280x768, 1024x768, 720x576, 704x576, 544x576, 480x576, 720x480, 704x480, 640x480, 544x480, 480x480, 480x256, 320x224, 240x180
Encoding	MPEG-2/H.264; H264/MPEG2 (optional H264/H264;MPEG2/MPEG2)
Bitrate	0.5 -15 Mbps
Aspect Ratio	4:3; 16:9
Audio:	
Encoding	MPEG-1 Layer II, Audio output level adjustment +6/-6.7 db
Sampling rate	48kHz
Resolution	24-bit
Bitrate	64Kbps~384Kbps
Delay	less 1 sec (100ms (optional low delay mode))
Stream output	2×ASI output ports, BNC interface
	4xIP, MPTS/SPTS over UDP/RTP, 10/100 Base-T Ethernet interface (UDP/RTP multicast/unicast) Rj45 interface
Language	English-Russian
Power Supply	
Power	AC 220V±10%, 50Hz
Power Consumption	17W
Others	
Size (W×D×H)	440mm×190mm×44mm
Weight	3.5kg