

s-cube 2000 SD and 3000 HD H.264 Encoder

IPTV - Professional Live Broadcasting



The s-cube 2000 and s-cube 3000 are professional broadcast-quality advanced video/audio encoding and streaming 1-RU solutions. These sophisticated, high performance encoder convince with an outstanding picture quality at lower bit-rates and highest reliability for 24/7 usage. The installation of the s-cube 2000/3000 is easy and can be configured remotely via a user-friendly web interface. The s-cube 2000 delivers one SD channel and the s-cube 3000 one HD channel of variable bitrate (VBR) or constant bitrate (CBR) MPEG-4 AVC/H.264 video (progressive and interlaced coding) and MPEG-4 audio. It also provides MPEG-4 Advanced Simple Profile (ASP) up to Level 5. The s-cube 2000/3000 is designed for broadcasters, operators and enterprises delivering IPTV and Streaming services as well as for broadcast distribution and contribution. Reliability, flexibility, quality, precision, and cost effectivity are the core attributes of the s-cube 2000/3000 that satisfies all of today's industry requirements.



Core Features:

- > Robust for 24/7 operation
- > MPEG-4 Video part 10
- > HDTV: 720p/60,59.94,50,30,29.97,25,24
- > Baseline, Main and High Profile
- > MPEG-4 Video part 2
- > MPEG-4 Audio (AAC)
- > ISMA and DVB compliant
- > Analogue and digital (SDI) input
- > RTP and MPEG-2 TS output
- > Unicast and Multicast
- > Bandwidth-smoothing
- > Control via flexible web interface
- > Integrated RTSP stream server
- > Two separate network adapters
- > Engineered in Germany

System

Video input s-cube 2000	Analogue Component and Composite for PAL and NTSC, SD-SDI 4:2:2 for PAL and NTSC
Video input s-cube 3000	Analogue Component, Digital SDI 4:2:2, HDTV: 720p/60,59.94,50,30,29.97,25,24,
Audio	Analogue Balanced XLR, SDI embedded
Output	2 x Ethernet 10/100/1000 BaseT
Transport s-cube (common)	MPEG-2 Transport Stream over UDP or RTP, Direct media over RTP, RTP with configurable packet size, Multicast & Unicast IP
Transport s-cube 3000	Embedded RTSP server (up to 5 clients) , Session management over RTSP or HTTP, SDP, Two-dimensional forward error correction (FEC Pro-MPEG CoP3r2)
Dimensions	436 x 541 x 45 mm (W/D/H)
Rack mount	19", 1 RU
Weight	9 kg
Power Supply	110 - 240 V max 160 W

Software

Encoding	Part 10 (AVC/H.264): Baseline, Main and High Profile Part 2: Simple L0-L3 and Advanced Simple Profile L1 - L5
Bitrates	from 48 kBit/sec up to 8 MBit/sec (s-cube 3000 up to 16 Mbit/sec)
Resolutions s-cube 2000	720x576/480, 704x576/480, 720x400, 544x576/480, 528x576/480, 480x576/480; 352x576/480, 352x288, 320x240, 176x144
Resolutions s-cube 3000	Horizontal resolutions: 1280, 1120, 960, 720, 704, 640, 544, 528, 480, 352, 320, 176 Resolution conversions: QCIF (176x144), QVGA (320x240), CIF (352x288), 704x576/480, SD (720x576/480), 640x360, 432x240
Features common	Scene-cut detection with automatic key-frame insertion progressive and interlaced coding CABAC and CAVLC (AVC/H.264)
Features s-cube 3000	Adjustable key-frame period, GOP size, Adjustable video buffer size (VBR)
Encoding (Audio)	AAC, Stereo and Mono
Sample-rate	8 - 48 kHz
Bitrate	From 16 kBit/sec up to 384 kBit/sec
Standards	ISMA 1.0 Profile 0 and 1, DVB-IPI, ISO/ IEC 14496-2, ISO/ IEC 14496-3, ISO/ IEC 14496-10, ISO/ IEC 14496-12/ 14/ 15, ISMA 2.0

