

K 32-Channel 1080p50 HEVC to H.264 IP Transcoder

- 32 × 1080p50 HEVC → H.264
- AC-3 audio pass-through
- UDP multicast SPTS I/O
- 2U · hot-swap dual PSU

Product Overview

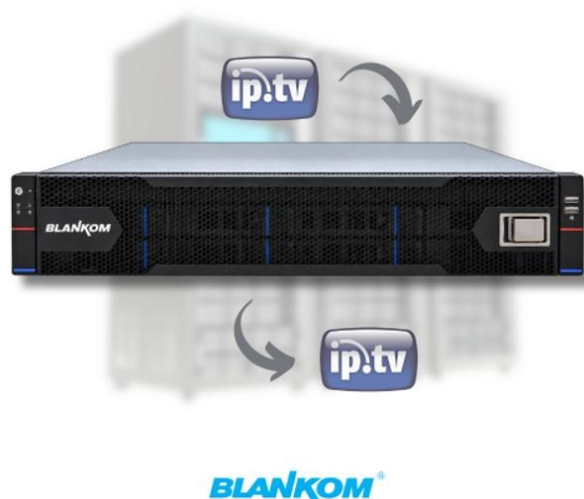
The BLANKOM **BTR-6000V Pro V2** is a professional H.265/HEVC multiscreen transcoder for IPTV headends. Its x86 architecture integrates GPU and CPU processing for high-density concurrency. **Engineering-confirmed V2 capacity: a single unit transcodes 32 × 1920×1080p50 HEVC/H.265 channels to 32 × 1920×1080p50 AVC/H.264 channels.**

All channels can be received and delivered as **UDP multicast MPEG-TS SPTS** streams with **AC-3 audio passed through unchanged**, so HEVC services reach existing H.264 receivers at full resolution and frame rate. Multiscreen streams for phones, tablets and TVs are also possible.

Key Features

- ✓ **32-channel V2 capacity.** 32 × 1080p50 HEVC/H.265 to 32 × 1080p50 AVC/H.264 in a single unit.
- ✓ **Further operating points.** Pro platform data: HEVC up to 1× 2160p60, 2× 2160p30, 16× 1080p25 or 64× 576p25; H.264 up to 32× 1080p25/50 or 64× 576p25.
- ✓ **Wide input range.** Decodes AVS+, H.265, H.264, MPEG-2, MPEG-4; audio MPEG-1/2/4, AAC, DRA.
- ✓ **Stream monitoring.** Three-level error detection based on TR 101 290, PSI/SI checking, input analysis.
- ✓ **Audio and transport.** AC-3 pass-through unchanged, multi-audio transcoding, audio ALC; UDP multicast SPTS input and output on all channels.
- ✓ **Reliable operation.** Hot-swappable redundant dual PSU; scheduled channel reboot; logo and scroll text; Web GUI.

IP Transcoder, Mux



Applications

IPTV headends with H.264 receivers

Up to 32 HEVC 1080p50 services to H.264 set-top boxes and TVs via UDP multicast SPTS, AC-3 unchanged.

Multiscreen distribution

Multiple resolution streams per programme for mobile, tablet, TV and large screens.

Headend format conversion

AVS+, HEVC, H.264, MPEG-2 or MPEG-4 in; HEVC or H.264 out over UDP, RTMP, HLS or FLV.

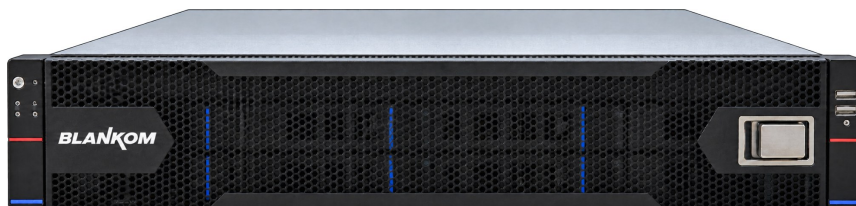
Related Product

BTR-6000V 1U H.265/HEVC multiscreen transcoder and re-multiplexer for smaller channel counts: up to 1× 4K, 8× 1080p, 16× 720p or 32× SD HEVC.

IP Transcoder, Mux



Front & Rear Connections



Front: BLANKOM 2U chassis with ventilated front panel · status LEDs · 2 × USB



Rear (full option): two hot-swappable redundant AC PSU modules · I/O panel · expansion slots

INPUTS & CONNECTIVITY

IP input	4 × RJ45, 1000M/100M, full duplex
IP output	4 × RJ45, 1000M/100M, full duplex
Protocols	UDP multicast, UDP unicast, RTMP, HTTP-HLS, HTTP-FLV (in and out)
Type	TS/IP; UDP multicast MPEG-TS SPTS confirmed for all channels
Decoding video	AVS+, H.265/HEVC, H.264/AVC, MPEG-2, MPEG-4
Decoding audio	MPEG-1, MPEG-2, MPEG-4, AAC, DRA

CONTROL & OPERATION

Management	HTTP Web GUI; RJ45 1000M/100M, shared with the data port
Monitoring	TR 101 290 three-level error detection; PSI/SI checking; input analysis
Overlay	Logo / graphic insertion, special effects overlay, scroll text
Operation	Scheduled reboot per channel; padding broadcast / promotional video

VIDEO & AUDIO ENCODING

V2 capacity	32 × 1080p50 HEVC → 32 × 1080p50 H.264 (confirmed by BLANKOM engineering); H.264 at 1080p25 and 1080p50
Video codecs	H.265/HEVC Baseline, Main @L6.2 or less; H.264/AVC Baseline, Main, High @L5.1 or less
Resolution	96×96 to 4096×2160, incl. 3840×2160, 1920×1080, 1280×720, 720×576
Frame rate	Auto, 10-30, 50, 60 fps
Chroma / depth	YUV 4:2:0, 4:4:4; 8-bit, 10-bit (HEVC only)
Video bitrate	800 kbps – 20 Mbps; CBR / VBR; MPEG-TS
Audio codecs	MPEG-1 Layer 2, MPEG-2 AAC; AC-3 pass-through (unchanged)
Audio	Auto / 32 / 44.1 / 48 kHz; 64-384 kbps

POWER & PHYSICAL

Platform	x86 CPU + GPU
Chassis	19-inch rackmount, 2U
Power supplies	Hot-swappable redundant dual PSU
AC input	110-240 V AC, 6.4 A, 50-60 Hz; max. 500 W
Weight	16 kg
Environment	Operating 5 to 45 °C; storage –10 to 65 °C

Ordering & Selection

BTR-6000V Pro V2: 32-channel 1080p50 HEVC to H.264 IP transcoder, UDP multicast MPEG-TS SPTS input/output, AC-3 audio pass-through, 19-inch 2U, hot-swappable redundant dual PSU. Please state channel count, codecs, resolutions, frame rates and bitrates in your enquiry.

Specifications are subject to change without prior notice.