

# Transcoder



- Video compliant with H.265/HEVC Baseline, MainProfile@L6.2 or less
- H.264/AVC Baseline, Main&HighProfile@L5.1 or less
- Audio compliant with MPEG-1 Layer II Audio, AAC transcoding
- Resolution from 96\*96 to 4096\*2160
- Bitrate from 200 kbps to 20 Mbps
- H.265/HEVC support 4K\*1 / 1080P\*8 / 720P\*16 / SD\*32
- H.264/AVC support HD\*16 /SD\*32
- Support local video transcoding and delivery
- Rolling subtitle insert
- Logo and Text insertion
- Multi-audio transcoding and pass through
- PCR self-correcting
- PSI/SI edition and PID passthrough
- Up to 200 MPTS/SPTS output, 100 Mbps for each
- Support 1+N output stream backup feature
- Remote control by Web-Interface
- Re-Multiplexing DVB and IPTV conform

## 5th Generation BLANKOM® IPTV Headend Technology

Broadcast grade, high performance transcoder for up to 32 SD or 16 HD or 1 4K UHD channels.

BTR-6000 can process SD/HD efficiently based on the high-performance processing chip, is designed specifically for IPTV systems with HEVC/H.265 low bit rate compression.

The channels can be converted to a low bit rate (<600kbps, D1) while maintaining picture quality. It also supports IP re-multiplexing MPTS and SPTS streams.

The multiple Video resolution functions can be used for multi-screen (TVs, Smart phones, tablets, PCs, etc) perfectly.

The friendly network management interface can help configuring and monitor working status easily.

*Up to 32 channel SD or*

*16 channel HD or*

*1 channel 4K UHD HEVC*

*Multiscreen Transcoder with Multiplexer*

## TECHNICAL SPECIFICATIONS

### INPUT

- Interface: 3...4x 1000M/100M/10M RJ45, Full Duplex
- TS/IP Input Bit Rate: 800Mbps per RJ45
- Data Protocol: UDP, ICMP, IGMP V1, V2, V3, RTP, HTTP, RTSP, FTP, RTMP, HLS (HTTP Live Streaming)
- Transcoder source: IP inputs, Local files
- IP Protocol: Unicast, Multicast

### INPUT VIDEO/AUDIO FORMAT

- Video: H.265/HEVC, H.264/AVC, MPEG-2, MPEG-4
- Audio: MPEG-1L2, MPEG-4, AAC, ... EAC3, DD+ passthrough possible
- Optional HDMI and/or SDI input modules (future releases)

### RE-MULTIPLEX

- Input: SPTS / MPTS
- Null package process: Null packet pass through, insert and filtering
- TS Editing: Service editing, PSI/SI editing, PID pass through / remapping, PCR auto-correction
- Maximum bitrate: 100Mbps each
- Maximum TS count: 200 input TS Streams + 200 output TS Streams (with transcoder function disable)

### OUTPUT

- Interface: 3...4x 1000M/100M/10M RJ45, Full Duplex
- TS/IP Input Bit Rate: 800Mbps per RJ4
- Data Protocol: UDP, RTMP, HLS, FTP, RTP (for MUX only)
- IP addressing: Unicast, Multicast
- Type: IP Streaming, DVB conform remuxed streams

### VIDEO/AUDIO FORMAT FOR ENCODING

- Video Format: HEVC (H.265)/H.264
- Audio Format: MPEG-1 Layer 2, MPEG-2 AAC, MPEG-4 AAC
- Package Format: MPEG-TS
- Bitrate Control: VBR, CBR
- Video resolution: 4096\*2160, 3840\*2160, 2560\*1440, 1920\*1080, 1280\*720, 720\*576, 720\*480, 704\*576, 704\*288, 640\*480, 544\*576, 544\*480, 480\*576, 480\*320, 480\*270, 360\*320, 352\*576, 352\*288, 320\*240, 320\*200, 240\*160, 192\*192, 192\*128, 176\*144, 128\*96, 96\*96, ...
- Video Aspect Ratio: Auto, 4:3, 16:9
- Video frame rate: Auto, 30 fps, 29.97 fps, 25 fps, 24 fps, 23.97 fps
- Video bitrate: 200 kbps ~ 20 Mbps
- Audio sampling rate: 32 kHz, 44.1 kHz, 48 kHz
- Audio bit rate: 32 kbps, 64 kbps, 96 kbps, 128 kbps, 192 kbps, 256 kbps, 384 kbps

### CONTROL & MONITORING

- Interface: 1x RJ45, 1000M/100M
- Protocol: HTTP Web GUI

### GENERAL

- Dimensions: 430 mm x 335 mm x 44 mm, 19" 1RU
- Approx weight: 8.7 kg
- Power: AC 110V~240V, 6A, 47~63 Hz
- Power consumption: 350W max.
- Temperature: 5~45 °C (operation), -10~65 °C (storage)

**Ordering Guide:**      **BTR-6000**      IPTV Transcoder

