Anystream420

4K Carrier-grade Live Transcoder

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Anystream420 which is a perfect carrier-grade video processing solution for next generation Broadcast, OTT, Mobile TV Head-End. Typical Real Time Transcoder Benchmarks Include 2* UHD 4K Streams.

Support 4:2:2 and low-latency encoding; combined with its significant HEVC bitrate savings, Anystream420 offers broadcasters a true jump on the competition. It can perfect meet the significant increase in UHD TV sets hitting the market. **HLS output** supports multiple resolutions and bitrates in one address, which used for OTT Live system. It can automatically switch resolution based on the terminal's network to ensure the users receive high-quality and smooth videos.

Anystream420 supports Apple® HTTP Live Streaming, RTMP, Microsoft® Smooth Streaming, HTTP, RTSP, UDP, HTTPS, RTMPS and Works Well with Wowza and Ezserver, Nginx servers, Xtream-codes. Ideal Device for Multi-screen services and profiles to deliver video to any android and IOS devices at superior quality. Designed for Cable, satellite and terrestrial, OTT, Mobile, Web, IPTV content distribution applications requiring Digital Video Broadcasting. The use of the HEVC Transcoder enables an operator to deliver content of a given quality at a significantly reduced bandwidth or to deliver significantly higher quality video at a given bandwidth.

Features

- Telco Quality, Highly Reliable platform can process to 2* UHD 4K @30fps or 1*UHD 4K @60fps profiles
- Achieve a compression gain of 40-60% over H.264/AVC in subjective quality
- Support Multi-screen services and profiles in different IP protocol for IOS, Android devices, Flash. Etc
- UHD 4K, MPEG/H.264-to- HEVC(H.265) any to any transcoding
- Down/UP Scale converter ability to convert all UHD services to UHD
- HEVC Main 10&Main 4:2:2 10bit encoding
- Support HDR
- Picture-in-picture (PIP) operation supported
- Support RTMP, HTTP Live Streaming and HLS encrypted function, Pull/Push HTTP/RTSP, RTMP, UDP, SDP, SRT protocol for input/out (HTTPS input only, RTMPS output only)
- Support UDP SPTS/MPTS input/output
- 1080i resolution supported for input/output
- Produce pristine video quality over the lowest bitrates
- 2 Gigabit Ethernet LAN ports provide additional performance and redundancy. Seperate ethernet ports for service streaming and out-of-band management
- support multi screen output function, and a variety of terminals (iPhone, iPad, Android etc.)
- Low latency, high quality, and high performance of real-time transcoding
- Support multi audio transcoding
- Logo, watermark, mosaic Insertion and caption superposition function
- Support de-interlace function
- Support image zoom
- Compatible with external MPEG-DASH packager for OTT delivery (option)
- The preview interface adds color control adjustment (CCATM) function (video output brightness, contrast, saturation, aberration).
- TS parameter configuration: The output stream can be edited to change the program number, program name, supplier (for video output part), easy to identify end device.
- Supports AES encryption
- Designed for 24*7*365 uninterrupted working
- Dual hot-swappable power supply optional
- Easy to Web management
- passed the EU CE certification

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TECHNICAL SPECIFICATIONS

Input

TS/IP Input	2 GbE interfaces RTMP/RTSP/HTTP/HTTPS/HLS/UDP/RTP (multicast, unicast) MPEG TS (SPTS/MPTS)
Video decoding	H.264, H.265
Audio decoding	MPEG-1 Layer II, AAC-LC, AAC-HE v1/v2, Dolby Digital, Dolby Digital+

Output

Interfaces	2 GbE interfaces
Formats:	3840x2160p@60fps (UHD) ; 3840x2160p@30fps(UHD) 1920x1080p (FHD), 1920x1080i
Min. Resolution:	64x64
Bit rate mode:	VBR, CBR
	SPTS (IP streaming)
	MPEG TS Unicast and Multicast
	TS/RTP/UDP (SPTS/MPTS)streaming
	SRT
	Adobe Flash / RTMP / RTMPS
	Apple HTTP Live streaming
	HLS encrypted
	Microsoft Smooth streaming
	Unicast and multicast
	MPEG-DASH(Option) IGMP V2 & V3
	IPV4 support

Video transcoding

	Smart de-interlacing
	Picture resizing
	Logo/graphics overlays
	Crawling text
Picture aspect ratio	4:3, 16:9, 1:1, automatic mode
Codec Format	H.265/HEVC Main and Main-10
	H.264/AVC BL/MP/HP up to level 5.2
Bit Depth	8/10-bit
Video Bitrate	100k~30Mbps
Frame Rates	Adjust 5-60fps
	Automatic detection of Scene Switching
	GOP adjustable
Number of channels	2 (3840x2160p UHD 4K@HEVC 30fps)
	1 (3840x2160p UHD 4K@HEVC 60fps)

Pre-processing

Image setting	Video adjustments (Brightness, contrast, Saturation, Hue)
Subtitle Overlay	Static or roll subtitle, up to 3 way (optional)
PID Configuration	Depending on the configuration, it forwards selected programs via IP datacasting; PAT, PMT, video PID, audio PID(s) and PCR information are transmitted.
GOP	GOP adjustable, B frame adjustable

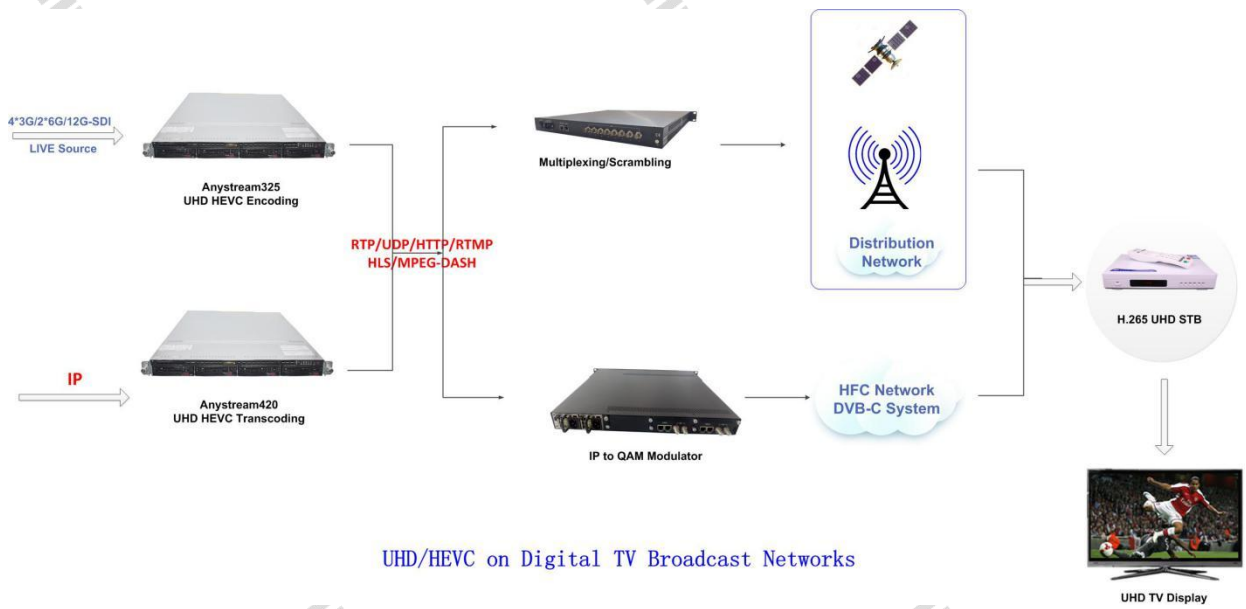
Audio transcoding

Bitrate	8kbps~448kbps
Format	LC-AAC, HE-AAC and HE-AAC v2; MPEG-1 Layer, AC3, MP3
sampling rate	8KHZ~48KHZ, Adjustable
Number of HEVC	

Environment

Power Supply	AC100 ~ 240V
Power Consumption	500W
Dimensions	437mm (W) x 754mm (L) x 43mm (H)
Net weight	12kg

Application



UHD/HEVC on Digital TV Broadcast Networks

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