Reduce bit rates and increase quality
Transcoding for IPTV and Cable VOD

Telestream Vantage® Transcode IPTV VOD allows you to achieve the highest possible quality at the lowest bit rates. With GPU accelerated transcoding, full integration of x264 H.264 and x265 HEVC encoding technology, and Manzanita Transport Stream multiplexing, Transcode IPTV VOD offers a complete solution to automate transcoding for IPTV and Cable VOD production.

Increase Quality, Lower Transmission Costs with x264
x264 is widely regarded as the industry leading H.264 encoding technology. Independent studies have shown x264 capable of reducing bit rate requirements by 50%, without sacrificing quality, when compared with other H.264 encoders. Transcode IPTV VOD offers GPU acceleration of x264 encoding for high quality with exceptional transcoding speed.

HEVC encoding
Transcode IPTV VOD includes x265 HEVC encoding, for high-quality H.265 encoding. HEVC allows you to reduce bit rates and increase video quality compared to H.264, allowing you to maximize the use of your bandwidth.

Extensive Transport Stream Control
Transcode IPTV VOD provides sophisticated metadata control, customizable stream mapping, and fully integrated Manzanita Transport Stream multiplexing. Audio tracks and metadata may be preserved from source and remapped or encoded according to your specifications. Captions, V-Chip ratings, and other metadata can be preserved and inserted during the transcode. With these features and more, Transcode IPTV VOD allows you to meet the needs of the most demanding distribution requirements.
Save time, effort and money
Transcode IPTV VOD eliminates tedious manual transcoding, cumbersome handling of tape, and the need for digital-to-analog conversions just to get your media into the right file format — saving you time, effort and money. Transcode IPTV VOD automates the full production of your VOD assets, from ingest to transcoding, packaging, delivery and notification.

Consistent, hands-free processing
Transcode IPTV VOD is your professional media processing system. Set up automated workflows once for consistent, high-quality results every time. Simply set rules for where to look for your source files, what to do with them and where to deliver them. Transcode IPTV VOD automatically monitors FTP, network or local folders for the arrival of new content, enhances media with pre-processing filters for high-quality output, transcodes and delivers your media — and then sends email notifications.

Options to enhance your workflow
Vantage also offers options and an upgrade path to enhance your workflow. Add Lightspeed® Live Capture to ingest media from tape or live sources. Add Vantage Analysis to create “smart” transcoding workflows, which analyze media properties and then automatically choose and customize transcoding profiles to best suit the media. Automate VOD production further with Post Producer™, which replaces manual editing with automated stitching, graphics, effects, audio overlays, and ratings to create beautiful, finished VOD assets. Post Producer™ integrates tightly with IPTV VOD to create a complete VOD production solution. Add integration with third party software tools to access QC, digital delivery, and subtitling functions within a unified Vantage workflow.

Lightspeed® GPU Acceleration
Add Lightspeed Server to improve Vantag performance and throughput. Leveraging Telestream’s exclusive Lightspeed technology, Lightspeed Server is a 1RU device that uses multiple GPUs and CPU cores to accelerate video processing and x264 and H.264 encoding. Enhanced deinterlacing, resizing, and accelerated H.264 encoding will significantly improve your image quality and reduce transcoding time.

Scalable, rock-solid server software
Vantage Transcode IPTV VOD runs on Windows Server 2012. Optimized for server architectures, Vantage Transcode IPTV VOD ensures high performance. Automatic queuing and prioritization capability ensures that media is processed as quickly as possible.

Adding Vantage Array allows for full scalability, load-balancing and redundancy, giving you 24/7 reliability and auto-failover. Processing can take place on one or multiple load-balanced servers providing high-volume processing to meet your exact workflow needs.

Best in class customer support
You can rest assured that our worldwide team of highly-skilled technicians will be available to provide the quick and comprehensive support and guidance you need to fully leverage the power of your Telestream product.
Video, Audio and Graphics Processing

INCLUDED

**Video:** Full 16-bit 4:4:4:4 YCbCrA multi-core video processing. Filtering includes aspect ratio preservation, blur, bumpers, color rescale, contrast, crop, deinterlacing, down conversion, field order conversion, gamma correction, image overlays, inverse telecine, mask/padding, movie overlays, noise reduction, telecine pulldown, saturation, sharpen, standards conversion, trailers, time code burn in, trimming, up conversion.

**Audio:** Channel mixing, fade up/down, language descriptor, normalization, phase invert, up/down sampling, mix external audio files, SMPTE 337M insertion

**Graphics:** QuickTime overlays, image overlays, bumpers, trailers; V-Chip image overlays at program start

**Transport Stream Multiplexing**

INCLUDED

Multiplexing: Fully integrated Manzanita multiplexing with support for configuration file, bit rate model control, NULL stream insertion, PID and PMT control.

Captions: ATSC/DTV 9600 708 SEI, ATSC DTV 9600 MPEG-2 (608 and 708), ATSC CEA 608, SCTE-21, SCTE-20, and DVB subtitles.

Metadata: AFD preservation and insertion, Audio language descriptors, V-Chip rating, SCTE-35 insertion.

OPTIONAL

Dolby E decoding

CableLabs VOD Metadata entry and file creation

Timed Text Flip Caption & Subtitle conversion

System Configuration Requirements

**Vantage:**

Operating System: Windows Server 2012 R1 and R2, or Server 2016

Minimum Server: Dual, Six Core Processors - or better (a total of 12 cores or more is recommended), with 16 GB DDR Memory

Recommended Server: Telestream Lightspeed Server with GPU acceleration; High-Speed NAS or SAN storage recommended; GpE Ethernet adapter

SQL Database Dedicated Server:

Operating System: Windows Server 2012 R1 and R2, or Server 2016

Minimum Server: Four Core Processor - or better with 16 GB DDR required memory. 32 GB DDR is recommended for Domains with high job volume.

Database: SQL 2012, SQL 2014 Standard or Enterprise, SQL 2016 Standard or Enterprise, SQL Express 2016

Client OSs: Windows 10, Windows 7, 8, Server 2012 R1 and R2, or Server 2016

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