Comprimato Live Transcoder is high-performance encoder and transcoder software built explicitly for live streaming. It is designated for broadcasters and content distributors to match the low latency and high-quality requirements. Live transcoder enables end-to-end live video production from contribution encoding up to final distribution transcoding. It is available as a flexible software license and high-density server appliance. Live transcoder has been developed to help maximize revenue from content distribution by providing high-quality, cost-effective video processing.

** CONTRIBUTION ENCODING **
Encode live video using H.264 or JPEG2000 TR-01 codecs and transport the video to the studio or directly to the cloud. Avoid packet loss, reduce latency, and deliver high-quality video.

** PRODUCTION TRANSCODING **
The effectiveness lies in simplified transcoding workflow and reduced amount of hardware equipment. That is why our world’s fastest JPEG2000 codec allows for direct transcoding between JPEG2000 TR-01 and AVC, HEVC distribution formats.

** SOFTWARE-BASED SOLUTION **
Comprimato Live Transcoder is GPU accelerated high-density software. It is available as a software license or 1RU server appliance.

End-to-end live video encoding and transcoding software.
Additional features

High Value Transcoding

ABR transcoding
Instantly adapt live video content to the resolution, quality and codec needs of current and future devices.

High bitrate formats
Native support for high bitrate broadcasting contribution formats including JPEG2000, H.264 or HEVC.

Image processing
Resizing, Change of sampling factor, Bit depth conversion, Interlacing/Deinterlacing, Framerate reduction, Color adjustments and others.

Low latency
End-to-end live video delivery with guaranteed latency cap of 700 ms.

Lowest CapEx and OpEx

Easy deployment
Software only solution simplifies deployment; no need for specialized support; maximum flexibility and portability.

Simple scalability
Extend the number of streams, resolution or frame rate simply by adding additional CPUs or GPUs.

Investment protection
Fully leverages existing IT and IP infrastructure.

Easy integration and management

3rd party integration
Easy insertion into existing workflows via REST API.

Centralized control
Set up, manage and control hundreds of streams from a single console via SNMP or web interface.

For more information contact sales@comprimato.com
Specifications

**Video input**

**Supported codecs:**
- JPEG 2000
- H.264 (MPEG-4, AVC)
- H.265 (HEVC)
- MPEG-2

**Resolutions:**
- FullHD 1080p
- 4K UHD

**Color component sampling:**
- 4:2:2 10bit/8bit
- 4:2:0 10bit/8bit

**Audio input**

**Codec:**
- Uncompressed PCM - multichannel (SMPTE 302M-2007)
- AAC (ADTS / LATM)
- MPEG2 Audio
- AC-3
- E-AC-3

**Metadata**

- SCTE-35
- Metadata pass through
- Subtitles embedding into H.264 SEI messages
- Closed Captions (EIA-608/708)
- SMPTE 2038

**Video processing**

- Resizing
- Automatic color component subsampling (both configured automatically based on input and output settings)
- De-Interlacing
- Cropping / Padding
- Color adjustments
- Frame-rate adjustment (to 1/2)
- Logo insertion
- FrameRate Upconversion

**Containers & Protocols**

- UDP, RTP
- MPEG-2 TS, MPTS
- VSF TR-01
- RTMP / RTMPS
- NDI (input & output)
- HLS
- SDI Preview
- Hitless Merge
- Hitless Switch

**Synchronization**

**Input PCR:**
- Configurable: global (in separate transport stream) or local (contained in each input transport stream)

**Output PTS:**
- Configurable: pass-through or adding offset to input PTS
- Multipipeline synchronization using single PCR stream in multiple pipelines

**Audio processing**

- Shuffling
- Volume gain
- Sampling rate conversion

**Video output**

- Multiple output streams per each input stream, different configuration per each output stream.

**Video codec:**
- H.264 (MPEG4, AVC)
- JPEG2000
- H.265 (HEVC)
- MPEG2

**Color component sampling:**
- 4:2:2 10bit/8bit
- 4:2:0 10bit/8bit

**Audio output**

**Audio codec:**
- AAC (ADTS / LATM)
- AC-3
- Uncompressed PCM (SMPTE 302M-2007)
- MPEG2 Audio
- E-AC-3

**Configuration options:**
- Web UI, SNMP, REST API

**System Monitoring options:**
- System webconsole, SNMP + custom OIDs

**Audio processing**