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, Frame rate 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
- SRT
- NDI (input & output)
- HLS
- SDI Preview
- Hitless Merge
- Hitless Switch

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

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

Audio 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 processing

- Shuffling
- Volume gain
- Sampling rate conversion