Comprimato Live Transcoder is high-performance encoder and transcoding 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.
**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**

- **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.

**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
- RTMP / RTMPS
- SRT
- HLS
- NDI
- Hittless Merge
- Hittless 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

Audio output

**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

- Shuffling
- Volume gain
- Sampling rate conversion