

Comprimato

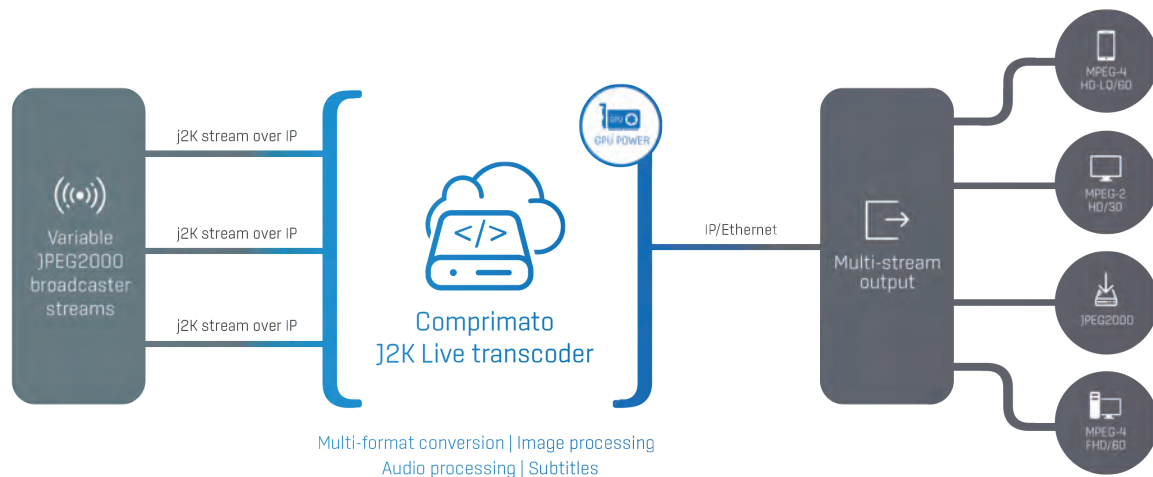
# Live transcoder

The most flexible software transcoder for realtime broadcasting  
and live multiscreen streaming over IP

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# Comprimato Live transcoder

## Comprimato Live transcoder



The Comprimato Live transcoder is the high-performance solution for professional video distribution. This software-only solution provides literally unlimited options for stream scalability and video processing customization to meet the increasing requirements of today's new media platforms delivery. A single instance can transcode as many as 70 full HD streams simultaneously. Multi-format support including JPEG2000 makes the Comprimato Live transcoder the ideal platform for professional content delivery services.

## Product comparison

Feature	Comprimato Live transcoder	Other HW transcoders
Standalone solution with no proprietary or complementary expensive hardware.	✓	✗
Runs on any x64 server architecture, virtualised or hosted infrastructure.	✓	✗
Video post-processing and format customisation on demand.	✓	✗
More than 70 full HD @60 fps streams in a single 1RU server.	✓	✗
Immediate scale-up: add more streams in less than a minute.	✓	✗

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# Comprimato Live transcoder



## Smart and affordable

Uses existing IT and IP infrastructure utilization with superior transcoder density for the best stream price/value on the market and your balance of capex and opex.



## Customisation

Comprimato Live transcoder comes with on-demand transcoding and stream customisation, image re-sizing, new audio or video codecs, subtitle layers and more.



## Software-only solution

Easy deployment without the need for specialist support provides maximum flexibility and portability, including support for VMWare platforms.



## Superior density

Core capability to simultaneously process more than 70 1080p/60 fps high quality streams in a single off-the-shelf 1RU server.



## Easy scale-up

Be ready for immediate transcoding requests with incredibly easy scale-up, and extend the number of streams, resolution or frame rate simply by adding additional GPU cards to the server system or CPU upgrade.



## ABR transcoding

Adapt to new media platform requirements and deliver your live video content at different resolutions, quality and video/audio codecs for all popular and future devices.



## Low latency

Deliver end-to-end live video with guaranteed latency of 700ms and give end-users the live event viewing experience without noticeable delay.



## JPEG2000 support

Native support for high bitrate contribution formats including JPEG2000 - ready to fit into professional broadcasting infrastructures.



## 3<sup>rd</sup> party integration

Fits into your existing workflows with seamless REST API integration.



## Intuitive control

Set up, manage and control hundreds of streams from a single console using SNMP or an intuitive web interface.

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# Comprimato Live transcoder

Specification

## Video input

Supported codecs:	Uncompressed JPEG 2000, broadcast profile (ITU-T T.800 ISO/IEC 15444-1:2004/Amd 3:2010) H.264 (MPEG-4)
Resolutions:	Fully configurable, default 1080p/60 10-bits
Color component sampling:	4:2:2 or 4:2:0, fully configurable
Frame rate:	Configurable
Input stream containers:	Transport stream File, IP:UDP/RTP TR-01

## Video output

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

Video codec:	H.264 (4:2:2 10-bit) MPEG-2 HEVC/h.265 Google VP9, VP8 JPEG2000
Bitrate mode:	Adaptive bitrate (ABR)

## Video processing

- Resizing/Croop
- Color component subsampling  
(both configured automatically based on input and output settings)
- De-Interlacing
- Upscaling/Downscaling
- Frame-rate adjustment
- Subtitles insertion
- Logo insertion
- Stream rate control
- Adaptive quantization
- Audio format conversion

## Product resources

- [comprimato.com/products/livetranscoder](https://comprimato.com/products/livetranscoder)

## Audio input

Codec:	Uncompressed PCM in SMPTE 302M-2007
Sampling rate:	44.1 kHz or 48 kHz, configurable
Channel configuration:	Up to 8 pairs of channels, each pair in separate program

## Audio output

Audio codec:	AAC (each pair of channels coded separately, packed into separate program)
Bitrate mode:	Adaptive bitrate (ABR)
Bitrate average:	Up to 256 Kbps, configurable

## Audio processing

Mode:	Pass-through only (no resampling or mixing)
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## System

Input stream count:	Depends on HW configuration
Output stream count:	Depends on HW configuration
Latency (input to output):	Configurable, below 300ms
System type:	CentOS/RHEL OS custom image.
Stream startup time:	Max. 5 seconds after configuration is applied
Configuration options:	Web UI, SNMP write, 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

Contact us for more information about specific number of streams.

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sales@comprimato.com

Request your demo

[sales@comprimato.com](mailto:sales@comprimato.com)

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