

Comprimato

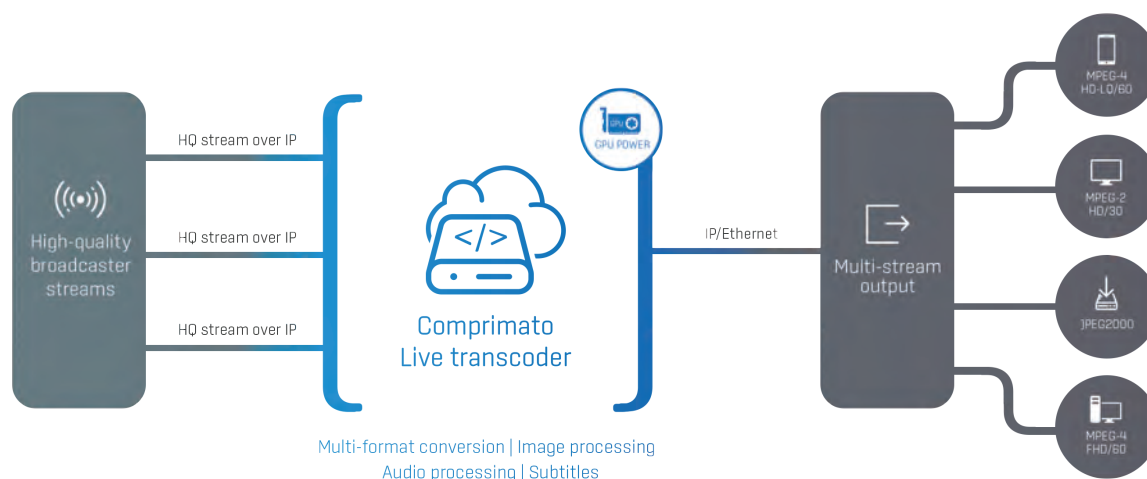
Live transcoder

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

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Comprimato Live transcoder

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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.



3rd 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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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

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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Request your demo

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