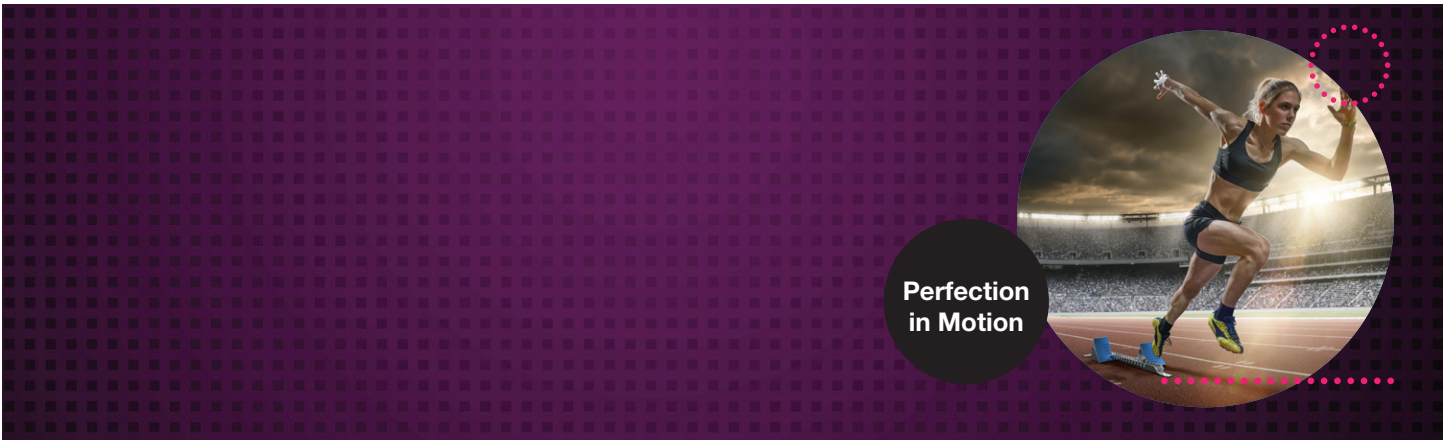


Alchemist Live

Motion-compensated Framerate Conversion for Live Media Streams



Alchemist Live is a unique stream-based solution enabling the next generation of unrivaled framerate conversion for live IP and SDI media streams.

Alchemist Live from Grass Valley, a Belden Brand, offers the very best motion compensated framerate conversion, providing transparent, artifact-free conversion for seamless global distribution of live media.

Get the most from Alchemist Live with Complete Care

Ensuring the maximum onscreen result is vital in maintaining viewer satisfaction. In turn, this results in greater monetization. Of course it's important to take steps to limit the risk of incidents occurring through fault prevention and planning.

But nothing is perfect and when incidents do occur, ensuring downtime is minimized is crucial. To ensure you get the most from your investment, Grass Valley offers comprehensive support packages to suit your needs.

Complete Care is offered for the first year from installation. This not only includes the Complete Care service package, but guarantees two releases per year and value-added product features as ongoing developments.

Built on 30 years of experience in supporting broadcast and post-production systems, Complete Care provides a highly skilled 24x7 technical help desk, committed response times, software maintenance support and operates a worldwide spare parts service from over 20 warehouse locations across the globe.

KEY FEATURES

- World-class motion compensation
- Supports live IP and SDI media streams
- Native support for RollCall Control and Monitoring, as well as Grass Valley iControl and GV Guardian
- Certified turnkey solution
- SD, HD, 1080p, 4K UHD & 4K DCI native support
- New technology optimized to deliver stunning image quality however complex the source

Alchemist Live Motion-compensated Framerate Conversion for Live Media Streams

SPECIFICATIONS

Supported Video Formats

SD, HD, 1080p, 4K UHD (23-60 Hz), 4K DCI

Processing Channels

1 channel of 4K UHD conversion
3 channels of 1080p conversion*

Conversion Modes

Motion Compensated Interpolation

Stream Inputs and Outputs (for IP Version)

Dual 25 GbE interface
TR-03 (with -7 style redundancy)
SMPTE ST 2022-6/-7
SMPTE ST 2110 (when released)
TR-04 (with -7 style redundancy)
AES67

SDI Inputs and Outputs (for SDI version)

8 x 75Ω SD/HD serial digital interface with 16 channels of embedded audio
3 Gb/s HD-SDI SMPTE ST 424/425
Quad link / Square division for 12G
1.5 Gb/s HD-SDI SMPTE ST 292 / SMPTE ST 299
270 Mb/s SD-SDI SMPTE ST 259

Supported Audio Format

16 PCM pass-through channels of audio (for IP version)
16 PCM pass-through channels of embedded audio (for SDI version)

Control & Monitoring

Standard RollCall interface
Standard RollCall logging and reporting
Grass Valley iControl and GV Guardian

Form Factor

4 RU
2000W Dual redundant PSU
Linux (RAID-1 OS)

Connectivity

2 x RJ45 GbE LAN ports
1 x RJ45 dedicated IPMI LAN port
1 x VGA (console)

Video Utilities

Color space conversion (REC601 / BT709)
Alias Suppression — Horizontal & vertical
RGB Legalization (700/ 721/ 735)
Aperture — Sharp / Normal / Anti-alias

HDR Processing

HDR (PQ / S-Log3 / HLG / HDR10) to SDR (BT709, REC601)
HDR (PQ / S-Log3 / HLG / HDR10) to HDR (PQ / S-Log3 / HLG / HDR10)
SDR (BT709, REC601) to HDR (PQ / S-Log3 / HLG / HDR10)

Reference Input

SD Bisync, HDTV Trisync

Latency

High framerate conversion, 210 ms – 320 ms (actual value depends on standards & genlock mode)
Low framerate conversion, 420 ms – 630 ms (actual value depends on standards & genlock mode)

Mechanical

Temperature range: 0 to 35°C (32 to 95°F) operating

Cooling: Front to rear

Weight: Gross weight 28.1 kg (62 lbs.)

Case type: 4 RU freestanding or rackmount

Dimensions: 462 mm x 673 mm x 172 mm (18.2 x 26.5 x 6.8 in.)

* All three inputs must be the same framerate and all three outputs must be the same framerate.

ORDERING

IP Version (Available mid 2018)

9822210

Alchemist Live (IP) (Software licenses and hardware)
Motion compensated framerate conversion for Live IP media streams. 1x 4K UHD channel or 3x 1080p channels.

SDI Version

9822200

Alchemist Live (SDI) (Software licenses and hardware)
Motion compensated framerate conversion for SDI media streams. 1x 4K UHD channel or 3x 1080p channels.

Mandatory Maintenance

CCLPIMPC

Alchemist Live Essential Care
Mandatory 1-year annual maintenance — includes hardware and software support and in-version software updates.



WWW.GRASSVALLEY.COM

Join the Conversation at **GrassValleyLive** on Facebook, Twitter, YouTube and **Grass Valley - A Belden Brand** on LinkedIn.



www.grassvalley.com/blog

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GVB-1-0701A-EN-DS