



# Redwood WHITE

## Best Price-Performance Ratio Video Engine

### Redwood WHITE

Powered by CasparCG



#### OVERVIEW

Aveco's Redwood WHITE video engine is designed for effective playout and integrated channel origination emphasizing the best price-performance ratio as well as studio and MCR-oriented graphics engines.

#### SYSTEM DESCRIPTION

##### Complete Channel Workflow

Providing a platform for clip playout, multi-layer graphics insertion including DVE, and many other broadcast features. Redwood WHITE is designed for running on COTS hardware. Deliverable as Aveco turnkey or as software-only with hardware locally provided.

Redwood WHITE is fully integrated with Aveco's ASTRA automation products including ASTRA Studio, ASTRA MCR and ASTRA MAM, providing cost efficiency and a high performance solution.

##### Best of Both Worlds

By combining the value of Aveco's robust, industry-standard automation system with the open-sourced CasparCG platform, you can take advantage of the best broadcast technologies, even with limited financial resources.

##### Video Engine

CasparCG is a Windows and Linux open source software platform used to play out graphics, audio, and video to multiple outputs. It has been proven on-air by premium broadcasters since 2006 in 24/7 operations.

##### Automation Platform

The ASTRA Suite of Tools can automate your facility's workflows. By automating ingest, media asset management, master control playout, and studio operations, your costs are lower and your workflows are simpler. Built around powerful media asset management, ASTRA provides tools to manage all of your content locally, from your desktop or from remote locations.

## KEY FEATURES

- Provides clip playout, multi-layer graphics insertion including DVE and many other broadcast features
- High performance with unlimited channel branding capabilities
- Usable as graphics engine suitable for upstream/downstream keying in studios and MCRs
- Video processing core is powered by CasparCG open source platform proven by premium broadcasters since 2006 in 24/7 operations
- Designed for running on COTS hardware, available for turnkey or software-only delivery

## INTEGRATION

### Automation & MAM

- ASTRA Studio
- ASTRA MCR
- ASTRA MAM

## TECHNICAL SPECIFICATION

### CHANNEL ORIGINATION

Branding & Graphics	<ul style="list-style-type: none"> <li>More than ten independent keyers (graphics layers)</li> <li>Background layer (clip or live)</li> <li>Single layers from clip or live inputs</li> <li>Dual DVE for playout of two clips or live inputs</li> <li>Independent branding for simulcast channels</li> <li>Dynamic text substitution from Astra or external source</li> </ul>
Master Control Switching	Switching between live, graphics and recorded clips
Clip Playout	Up to six internal players
Typefaces	All standard font formats are supported

### VIDEO

Inputs/Outputs	<ul style="list-style-type: none"> <li>SD-SDI (SMPTE-259M)/HD-SDI (SMPTE-292M)</li> <li>BNC or Mini-DIN female, 75 Ω</li> <li>Up to eight bidirectional (up to four live inputs)</li> <li>NDI output</li> </ul>
Keying	Fill & Key input / output, downstream, alpha
Graphics Formats	PNG, JPG, TIFF, GIF, Targa and FLV files, HTML5
Media Wrappers	QuickTime self-contained, AVI, MXF OP-1a, MPEG-2 PS
Codecs	MPEG-2, DV, XDCAM HD, DNxHD, ProRes

### AUDIO

Channels	<ul style="list-style-type: none"> <li>SMPTE 299M/272M</li> <li>Up to 16 embedded per video channel</li> </ul>
Formats	Uncompressed 32-bit PCM @ 48 kHz

**RESOLUTION**

Up-Conversion	Configurable pillarbox, crop, anamorphic
Down-Conversion	Configurable letterbox, crop, anamorphic
Cross-Conversion	720p to 1080i 1080i to 720p
SD Resolutions and Frame Rates	720 x 486i @ 29.97 fps 720 x 576i @ 25 fps
HD Resolutions and Frame Rates	1280 x 720p @ 50 & 59.94 fps 1920 x 1080i @ 25 & 29.97 fps

**STORAGE**

Capacity	On demand (based on COTS hardware)
Redundancy	On demand (based on COTS hardware)

**NETWORK**

NICs	Two or more GbE ports (one per I/O module)
Access	FTP, CIFS

**INTEGRATION**

Automation & MAM	ASTRA Studio, ASTRA MCR and ASTRA MAM
NRCS	ActiveX component for all major NRCS systems (iNEWS, ENPS, Octopus)

**POWER**

Hot Swap Redundant	
Input Voltage Range	100-240 V, 45-63 Hz
Power Consumption	200 W

**PHYSICAL**

Dimensions	1U, depth 59.7 cm / 23.5 in
Weight	19 kg / 41,9 lbs

**ENVIRONMENTAL**

Operating Temperature	+5° to +35° C
Operating Humidity	8% to 90% non-condensing