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 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.

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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 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**

TECHNICAL SPECIFICATION

CONNECTIVITY

SDI Inputs/Outputs	SD-SDI (SMPTE-259M)/HD-SDI (SMPTE-292M)/3G-SDI (SMPTE 424M) BNC, 75 Ω 4 bidirectional
Others	Black burst reference input
Network	Two 1GbE ports Access: FTP, CIFS

VIDEO

SD Output Video Definitions	720 x 486i @ 29.97 fps 720 x 576i @ 25 fps
HD Output Video Definitions	1280 x 720p @ 50 & 59.94 fps 1920 x 1080i @ 25 & 29.97 fps 1920 x 1080p @ 50 & 59.94 fps
Media File Wrappers	QT MOV (self-contained), MXF OP1a, AVI, MPG, MP4
Codecs	MPEG-2, MPEG-4, DV, XDCAM HD, DNxHD, ProRes
Aspect Ratio Conversion	Up - configurable pillarbox, crop, anamorphic Down - Configurable letterbox, crop, anamorphic Cross - 720p to 1080i, 1080i to 720p

AUDIO

Channels	SMPTE 299M/272M Up to 8 embedded per video channel
Formats Uncompressed	16, 24, 32-bit PCM @ 48 kHz

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CHANNEL ORIGINATION	
Integrated Channel Playout	Up to 3 live inputs / 2 program outputs
Master Control Switching	Frame-accurate switching between live and recorded clips
Clip Playout	2 HD channels
Branding & Graphics	Adobe Creative Suite authoring
	8 keyers (graphics layers)
	Background layer (clip or live)
	Single layers from clip or live inputs
	Dual DVE for playout of two clips or live inputs
	Independent branding for simulcast channels
	External key, fill inputs
	3-point animations
	Dynamic text substitution from Astra or external source
Typefaces	All standard font formats are supported

PLAYOUT	
Media Ports	2 playout ports (decoder)

INTEGRATION	
Dedication	Videoserver for playout, Integrated Channel Playout
Automation	ASTRA Studio, ASTRA MCR, ASTRA MAM
NRCS	ActiveX component for all major NRCS systems (iNEWS, ENPS, Octopus)
MAM	Thumbnail generator, Watch folder file ingest

STORAGE	
Capacity	Up to four 6 TB hot-swappable SATA drives, 12 TB usable (450 hours at 50 Mbps)
Redundancy	RAID 10

POWER	
Power Supply	Dual redundant, hot-swappable
Input Voltage Range	100-240 V, 50-60 Hz
Power Consumption	Max 200 W

PHYSICAL	
Dimensions	1U, depth 65 cm / 25.6 in
Weight	16.33 kg / 36 lbs.

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

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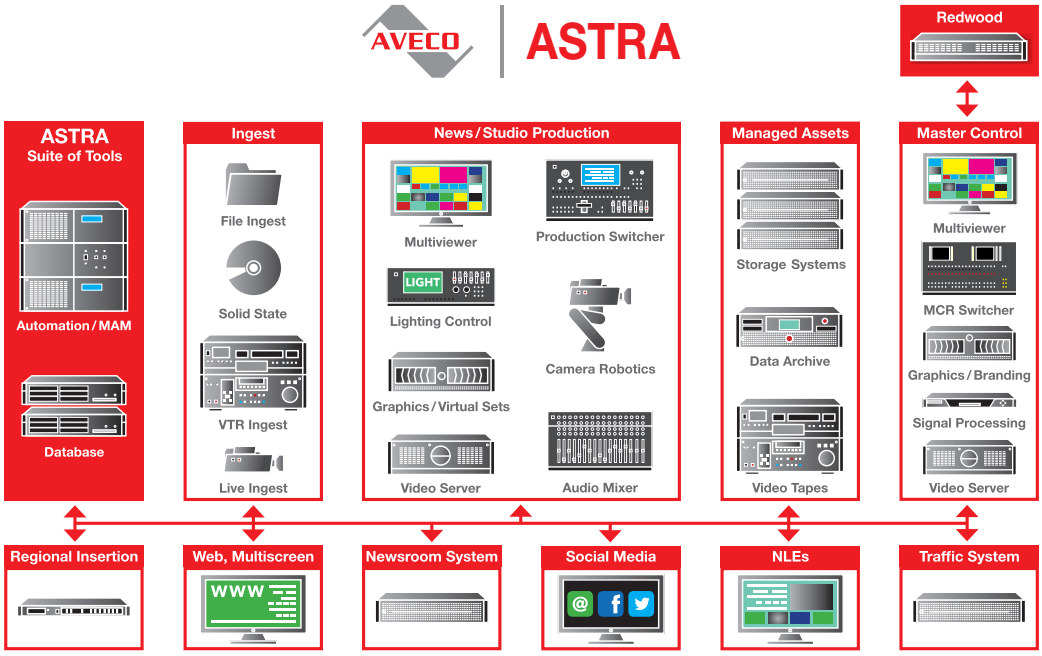
AVECO SOLUTIONS

The ASTRA and Redwood product families can be used in applications including live news-and-sports production, MCR playout, Integrated Channel Playout, mass ingest, ad insertion and disaster recovery.



PROFESSIONAL SERVICES

Whether your requirements are a new facility or an upgrade, Aveco approaches all projects taking our customers through these simple steps:

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