

Redwood WHITE

Best Price-Performance Ratio Video Engine



Product Data Sheet



KEY FEATURES

Clip playout, live inputs, 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 viable platform maintained by a large community of contributors, being proven by premium broadcasters since 2006 in 24/7 operations

Designed for running on COTS hardware, available for turnkey or software-only delivery

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

Integrated 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.



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
	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
Channel Origination	Integrated Channel Playback	Up to 3 live inputs, 2 independent program outputs
	Master Control Switching	Frame-accurate transitions between live and recorded clips
	Clip Playback	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 playback 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
Playback	Media Ports	2 playback ports (decoder)
Integration	Dedication	Videoserver for playback, Integrated Channel Playback
	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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