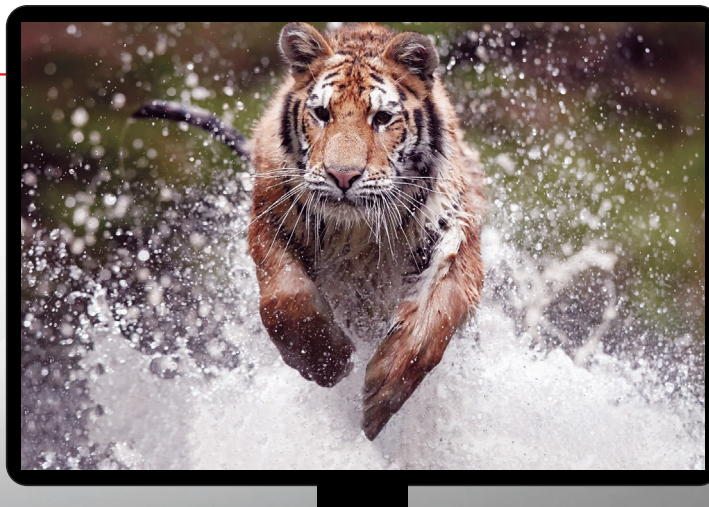


Redwood WHITE

Best Price-Performance Video Engine



Product Data Sheet



KEY FEATURES

Clip playback, live inputs, multi-layer graphics insertion including DVE and many other broadcast features

High performance with quality channel branding capabilities

Usable as graphics engine suitable for studios and master control playback

The video processing and graphics core is powered by CasparCG, an open-source platform maintained by a large community of 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 is designed for cost-effective video and graphics playback in integrated channel origination and in studio production.

SYSTEM DESCRIPTION

Integrated Channel Workflow

Redwood WHITE provides a platform for clip playback, multi-layer graphics 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-leading automation system with the open-sourced CasparCG platform, broadcasters take advantage of the best on-air technologies, even with limited financial resources.

Video Engine

Caspar CG is a Windows open source platform used to playback 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 playback, and studio operations, broadcasters lower costs and simplify workflows. Built around powerful media asset management, ASTRA provides tools to manage content and operations locally and remotely, on-premises and in the cloud.

Connectivity	SDI Inputs/Outputs	SD-SDI (SMPTE-259M)/HD-SDI (SMPTE-292M) BNC, 75 Ω 4 bidirectional
	Others	Black burst reference input
	Network	Two 1GbE ports Access: FTP, CIFS
Video	SD Output Video Definition	525i59.94, 625i50
	HD Output Video Definition	1080i59.94, 1080i50
	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 Payout	Up to 3 live inputs, 2 independent program outputs
	Master Control Switching	Frame-accurate transitions between live and recorded clips
	Clip Payout	2 HD channels
	Branding & Graphics	HTML5 based graphical templates 8 keyers (graphics layers) Background layer (clip or live) Single layers from clip or live inputs Dual DVE for payout of two clips or live inputs Independent branding for simulcast channels Optional Key, Fill outputs - for upstream keying on vision mixer 3-point animations Dynamic text substitution from Astra or external source
	Typefaces	All standard font formats are supported
Playout	Media Playout Ports	2 playout ports
Integration	Dedication	Videoserver for playout, Integrated Channel Payout
	Automation	ASTRA Studio, ASTRA MCR, ASTRA MAM
	NRCS	Avid/iNEWS, ENPS, Octopus, Annova OpenMedia and others
	MAM	Thumbnail generator, watch folder file ingest
Storage	Capacity	Two hot swappable durable SSD drives (4TB each) optionally expandable
	Redundancy	Default mirror redundancy
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