

# Redwood WHITE

## Best Price-Performance Ratio Video Engine



Product Data Sheet



### KEY FEATURES

**Clip payout, 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**

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.

### 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.

### **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.

### SYSTEM DESCRIPTION

#### **Integrated Channel Workflow**

Providing a platform for clip payout, multi-layer graphics insertion including DVE, and many other broadcast features.



# TECHNICAL SPECIFICATION

<b>Connectivity</b>	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
<b>Video</b>	SD Output Video Definitions	720 x 486i @ 29.97 fps 720 x 576i @ 25 fps
	HD Output Video Definitions	1920 x 1080i @ 25 & 29.97 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
<b>Audio</b>	Channels	SMPTE 299M/272M Up to 8 embedded per video channel
	Formats Uncompressed	16, 24, 32-bit PCM @ 48 kHz
<b>Channel Origination</b>	Integrated Channel Playout	Up to 3 live inputs, 2 independent program outputs
	Master Control Switching	Frame-accurate transitions between live and recorded clips
	Clip Playout	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 playout 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
	Media Ports	2 playout ports (decoder)
<b>Integration</b>	Dedication	Videoserver for playout, Integrated Channel Playout
	Automation	ASTRA Studio, ASTRA MCR, ASTRA MAM
	NRCS	Plugin for all major NRCS systems (iNEWS, ENPS, Octopus)
<b>Storage</b>	MAM	Thumbnail generator, Watch folder file ingest
	Capacity	Two hot swappable durable SSD drives (4TB each) optionally expandable
<b>Power</b>	Redundancy	Default mirror redundancy
	Power Supply	Dual redundant, hot-swappable
	Input Voltage Range	100-240 V, 50-60 Hz
<b>Physical</b>	Power Consumption	Max 200 W
	Dimensions	1U, depth 65 cm / 25.6 in
	Weight	16.33 kg / 36 lbs.
<b>Environmental</b>	Operating Temperature	+5° to +35° C
	Operating Humidity	8% to 90% non-condensing

AVECO, Headquarters, Praha, Czech Republic  
AVECO Inc., Miami Beach, USA  
AVECO India, New Delhi, India

info@aveco.com  
info-us@aveco.com  
info-in@aveco.com

**aveco.com**

