

Redwood WHITE

Best Price-Performance Ratio Video Engine Playout

Product Datasheet



OVERVIEW

The Redwood WHITE video playout engine offers a complete and versatile solution, tailored to meet the demands of modern studio production and MCR environments. Its range of advanced features, including fast cue times, graphics output, and NRCS plugin integration, make it the ideal choice for broadcasters and media organizations looking to maximize efficiency and performance. By utilizing the Linux platform, Redwood WHITE provides a dependable solution ensuring uninterrupted and seamless playout of video content, graphics, and branding elements.

SYSTEM DESCRIPTION

Complete Channel Workflow

Providing a platform for clip playout, multi-layer graphics insertion including DVE, and many other broadcast tools, Redwood WHITE is the next-generation solution for cost-effective video and graphics playout, expertly designed for versatile applications in both integrated channel origination and studio production, as well as master control playout. Building upon the success of its predecessor, the new generation Redwood WHITE offers a range of enhanced features and expanded capabilities. Its fast cue times, graphics output, and NRCS plugin integration make it exceptionally suited for studio production. In addition,

its integrated channel playout capability, live inputs, branding, DVE and ample storage capacity makes it ideal for master control playout as well.

Automation Platform

The ASTRA Suite of Tools can automate your facility's workflows. By automating ingest, media asset management, master control playout, studio operations, and by integrating Redwood WHITE into these workflows, 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

- Clip playout and live inputs for versatile broadcast capabilities
- Multi-layer graphics insertion, including DVE, for enhanced visual output
- High-performance channel branding capabilities for professional quality production
- Can be used as a graphics engine, suitable for both studio and master control playout
- Powered by CasparCG, an open-source platform with proven reliability in 24/7 operations

SPECIFICATIONS

Multi-Channel Functionality	Number of output channels	The system configuration determines the total number of output channels. The following combinations of slots are possible: - 2 ICP slots - 4 Slots for Composite Media Players - ICP Slot and two Composite Media Players.
	Channel Playout Slot (ICP)	Each ICP slot uses four SDI ports, divided into two input and two output ports. This facilitates channel origination through clip playout, clip/live switching, rich branding, and DVE.
	Composite Media Player Slot	These slots, dedicated to the Composite Media Player, require 2 SDI ports each, one for premultiplied 'Fill' content and one for 'Key' (alpha transparency), enabling the player to playback video clips and HTML graphics layers.
Connectivity	SDI Inputs/Outputs	8x SD/HD-SDI (SMPTE-259M/SMPTE-292M) mini BNC
	Reference Input	Black burst or Tri-level sync
	Network	2x 10GbE ports, optional 1x SFP (for eg. 25Gb optics), Access: FTP, CIFS
Media	File Wrappers	QT MOV (self-contained), MXF OP1a, AVI, MPG, MP4
	Codecs	MPEG-2, MPEG-4, DV, XDCAM HD, DNxHD, ProRes (Detailed information in a separate document)
	Branding & Graphics	HTML5 graphics templates
Features		<ul style="list-style-type: none"> - Total of 12 graphics layers per device, for enhanced visual output (incl. DVEs, key & fill outputs, 3-point animations), statically assignable to the individual playout channels - Fast cue times for efficient studio production workflows - MOS HTML5 plugin for seamless newsroom operations - Integrated channel playout capability for MCR applications - Support for live inputs, branding, and advanced graphics - Configurable Up/Down/Cross AR conversion
Storage	Capacity	12TB in RAID 5, hot-swap, optionally expandable up to 50TB usable disk space
	Operating System	Linux, dual bootable system disk
Integration		Fully integrated with Aveco's ASTRA automation products, providing cost-efficiency and high-performance solutions
	NRCS Integration	Avid/iNEWS, ENPS, Octopus, Aveco Rundown Designer and others
	MAM Integration	Thumbnail generator, watch folder file ingest
Power	Power Supply	Dual redundant, hot-swappable 800W
	Input Voltage Range	100-240 V, 50-60 Hz
	Power Consumption	Max 394 W
Physical	Dimensions	1U, depth 70.9 cm / 27.9 in
	Weight	18 kg / 39.7 lbs (without drives)