

Redwood WHITE

Best Price-Performance Ratio Video Engine Payout

Product Datasheet



OVERVIEW

The Redwood WHITE video payout 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 payout of video content, graphics, and branding elements.

SYSTEM DESCRIPTION

Complete Channel Workflow

Providing a platform for clip payout, multi-layer graphics insertion including DVE, and many other broadcast tools, Redwood WHITE is the next-generation solution for cost-effective video and graphics payout, expertly designed for versatile applications in both integrated channel origination and studio production, as well as master control payout. 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 payout capability, live inputs, branding, DVE and ample storage capacity makes it ideal for master control payout as well.

Automation Platform

The ASTRA Suite of Tools can automate your facility's workflows. By automating ingest, media asset management, master control payout, 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 payout 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 payout
- Powered by CasparCG, an open-source platform with proven reliability in 24/7 operations
- Designed to run on COTS hardware for cost-effective solutions

SPECIFICATIONS

Multi-Channel Functionality	Number of output channels	4 channels total. Each channel can be individually configured to operate in one of two dedicated modes.
	Channel playout mode	Integrated channel playout mode includes clip playout, graphics, DVEs, MCR switching to live (each output has an associated one live input)
	Graphics mode	Graphics device with key and fill outputs
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"> - 4x media player - 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 - NRCS 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	14TB in RAID 5, hot-swap, optionally expandable up to 50TB usable disk space
	Operating System	Linux, system disk mirror
Integration		Fully integrated with Aveco's ASTRA automation products, providing cost-efficiency and high-performance solutions
	NRCS	Avid/iNEWS, ENPS, Octopus, CGI OpenMedia and others
	MAM	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)