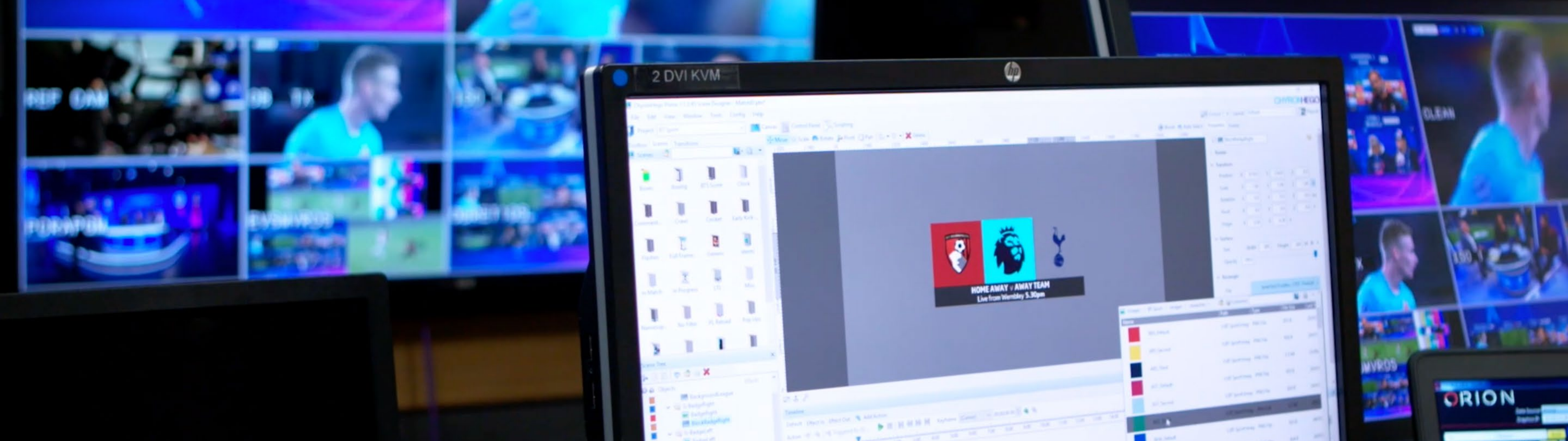# Chyron

PRIME CG

Powerful Next-Gen CG Authoring and Playout

SINCE DAY ONE.

The Graphics That Define Live Broadcast

Since day one, the Chyron name has been synonymous with broadcast graphics that have come to define the world of live production – you can even look it up in the dictionary. With over 50-years of innovation in real-time Character Generator (CG) technology, Chyron continues to lead the way with state-of-the-art graphics, that combine legendary ease-of use with efficient scene design and ultra-fast playout – to handle the most demanding of live productions.
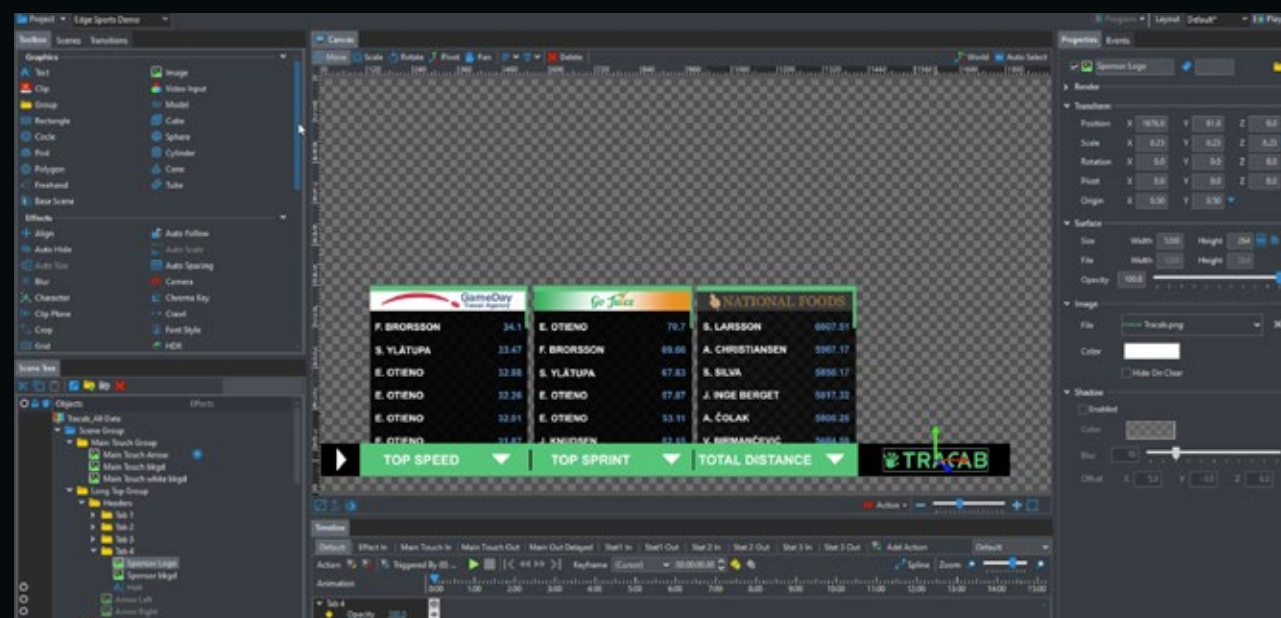
PRIME CG is the next generation of Chyron's real-time CG and playout solution. Utilize a powerful engine for rendering, intuitive authoring, and flexible playout to create and play-to-air sophisticated graphics like lower thirds, over-the-shoulders, news tickers, bugs, and more – in minutes. Whether your production covers news, sports, or elections – real-time data visualization is critical. PRIME CG's powerful data-binding to scene elements enables designers to easily create and visualize data for real-time evens as they unfold.

PRIME CG is a module of the PRIME Live Platform - a dynamic, scalable, full featured production engine that bridges legacy workflows with the future of live content creation and distribution. From a single design and playout interface, you can power on-air graphics, branding elements, video walls, touchscreen displays, viewer-interactive interfaces, and more.

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Stunning Graphics, Legendary Ease-of-Use

From scene creation to playout, and onward to implementation across a wide-ranging hub and spoke network – PRIME CG makes it easy to create stunning graphics, get them in the hands of your production team, and control playout live on-air.
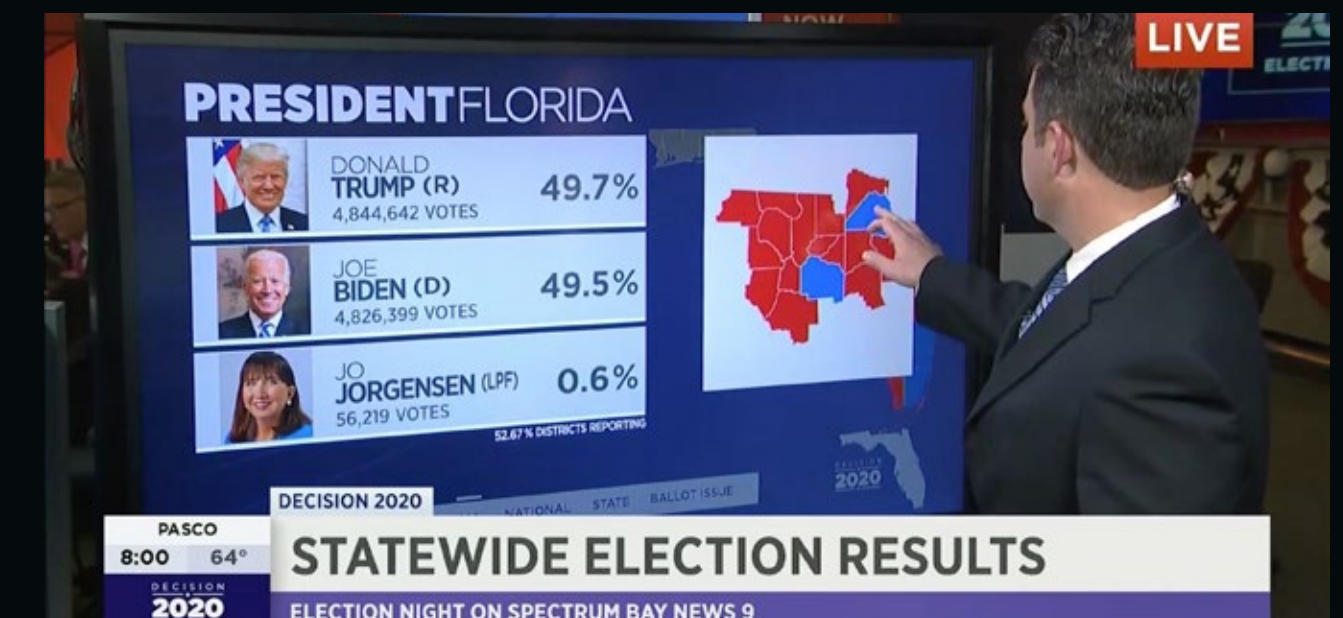

UNIVERSAL PRIME DESIGNER

PRIME Designer is the common authoring foundation for graphic scenes in PRIME CG and all other modules of the PRIME Live Platform. Designer offers all of the features that top-tier graphics artists expect: 2D and 3D text and objects, an array of effects, a timeline with spline editor, and simple keyframing control.

SIMPLE GRAPHICS PLAYOUT

PRIME CG offers quick scene recall and playout to air when paired with the Classic Keyboard. The configurable shortcut keys extend our familiar LyricX operator workflow to PRIME operators worldwide. Ideal for live production, PRIME CG streamlines the operator's ability to make last-second changes to graphics or text objects in a queue for playback.
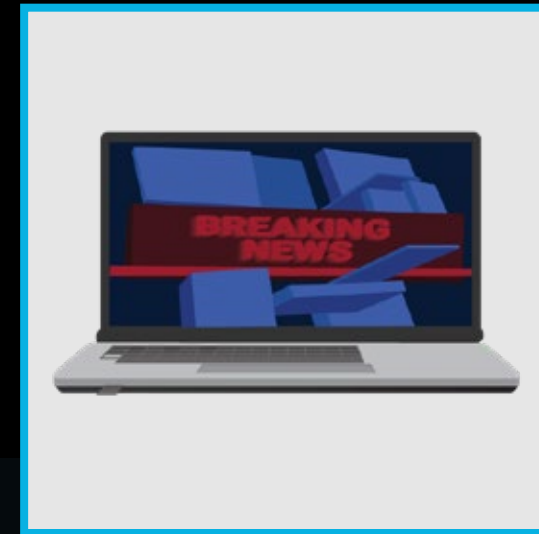
HYPER-EFFICIENT MOS WORKFLOWS

For connectivity to major newsroom systems, PRIME CG utilizes Chyron's CAMIO MOS-connected graphics template management solution, to make editable graphic templates available across your organization. Meanwhile Chyron's AXIS cloud order management and creation system empowers anyone on your news team to create graphics, maps, charts and more.

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KEY FEATURES

ROBUST DESIGNER TOOL SET
Create stunning graphics with PRIME Designer's suite of creation tools, including timelines, spline editor, and a complete set of keyframed effects. Design your scenes from the ground-up within PRIME CG or utilize your favorite third-party design tools with flexible import from Adobe After Effects and Photoshop.

UNLIMITED GRAPHIC LAYERS
PRIME CG's high-output channel density can handle the most demanding production needs and top-tier visual designs. Every PRIME CG output allows for unlimited graphic layers, so you can always nail your production look.

DATA VISUALIZATION
Powerful data-binding to scene elements enables simple visualization of data for showcasing real-time stats as they unfold. Auto-populate text fields and change object properties in graphics based on data connections to all types of web and file-based sources.

PRIME PLATFORM ECOSYSTEM
More than just a CG, PRIME can power graphics and video content tailored to your studio video walls, on-air branding, interactive streaming content, in-studio touchscreens, and ultra-sized venue LEDs. You can even deploy PRIME as a complete all-in-one studio!

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KEY FEATURES

SMOOTH LIVE PLAYOUT
Ideal for fast-paced live production, PRIME CG streamlines making last-second changes to graphics or text objects in the playback queue via configurable shortcut keys and dynamic graphic control panels. Pair with Chyron's Classic Keyboard for lightning-fast recall and playout.
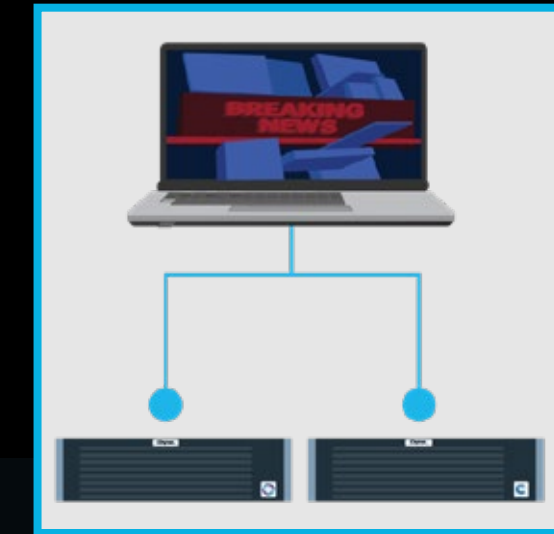
MOS-DRIVEN WORKFLOWS
For connectivity to major newsroom systems, PRIME CG integrates with AP ENPS, Avid iNEWS and Media Central, Dalet, Octopus, Ross Video Inception, and SCISYS Open Media via the industry-standard MOS protocol. PRIME also integrates via MOS with major NLE systems, leveraging your graphic assets and maintaining your brand across live and post-production.

ENVIRONMENT-AGNOSTIC
Whether a chassis in your OB van, a highly-mobile durapak, or a graphic design center in the cloud - PRIME Platform makes it possible to adapt a familiar CG design and playout workflow to the infrastructure you need to succeed. PRIME supports broadcast-grade video standards and formats in any environment.

LYRICX GRAPHICS ON PRIME
For LyricX users looking to futureproof their workflows, PRIME Platform offers a simple solution with minimal workflow impacts. PRIME's lyric mode allows users to run an instance of a single-channel LyricX for design and control of graphics, with support for simultaneous playout of LyricX and PRIME channels.

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TECHNICAL SPECIFICATIONS

GENERAL

HDR Support PQ, HLG, S-Log3	PQ, HLG, S-Log3
Video Standards	SD: 525i NTSC, 625i PAL HD: 720p (50/59.94/60), 1080i (50/59.94/60), 3G: 1080p(23.87/24/25/29.97/30/50/59.94/60) UHD: 2160p (23.87/24/25/29.97/30/50/59.94/60)
Video Input & Output Connectivity	• SDI (12G-SDI, 6G-SDI, and 3G-SDI) • IP 2110 • NDI • Network Streams • GPU
Genlock	Internal: Free Run | Reference in: Bi-Level, Tri-Level from external reference | SDI In: Detects the SDI video input signal Timecode
Audio	4 AES3id for 8 mono tracks
Embedded Audio	SDI Input: 16 per channel – Up to 32 channels embedded SDI Outputs: 16 per channel – Up to 32 channels embedded
Supported Clip Formats	GTC, DNxHD / DNxHR, ProRes (4:2:2 / 4:4:4 / 4:4:4:4), QT Animation / PNG, H.264, H.265, SDCam / HDCam, MPEG 2 / MPEG 4, XDCam (**note: some wrappers not supported, please check with Sales team for details.)
Supported Data Connections	Text Files, XML with XPath and XSLT, RSS, Web XML, JSON, EXCEL Access, any ODBC compliant data source, Google Sheets
Newsroom System Connections	MOS connection to AP ENPS, Avid iNEWS, AVID Media Central, CGI Open Media, Dalet Galaxy, Octopus, Ross Video Inception, SNEWS Arion, and 7Mountains Dina, and other industry-standard NRCS via CAMIO integration
Automation Support	Supported protocols include gRPC, Chyron Intelligent Interface, AMP, EAS, PBus, VDCP, Ross Talk, XML, and Oxtel

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PRIME 3RU ENGINE HARDWARE

OS	Microsoft Windows 11 IoT Enterprise LTSC
CPU	Intel Xeon w5-3435X (16 Cores | 32 Threads | 3.10GHz)
GPU	NVIDIA RTX A5000
RAM	2 x 32GB DDR5
OS Storage	2 x 480GB SATA (RAID 1)
Media Storage	3 x 3.2TB (RAID 5)
RAID Controller	Broadcom
Ethernet Ports	1 x 1 GbE 1 x 10 GbE
Serial Connections	1 x DB9 RS232 Serial Port
GPI/O	Optional 16 I/O (8 IN | 8 OUT)
System Dimensions	3RU Chassis: • Height: 5.2" (132 mm) • Width: 17.2" (437 mm) • Depth: 25.5" (647 mm) • Gross Weight: 75 lbs (34.02 kg)
Front Panel	Chyron front panel with front-accessible drive bays for enhanced usability and maintenance, along with an LED display for system status and product serial information.
Power Requirements	AC Input / 100-240V, 60-50Hz, 9 Amp Max / 3.2 Amps @ 120 AC Typical Total Output Power and Input: • 800W with Input 100 - 127 VAC • 1000W with Input 100 - 240 VAC • 1000W with Input 200 - 240 VAC

Chyron

OUR SERVICES

Chyron is known for its end-to-end customer service. We partner with our customers from the initial project design, to project management, training, on-air launch support and postlaunch follow-up.

PROJECT MANAGEMENT AND COMMISSIONING
Project Management and Commissioning are part of the turn-key services that we offer. This ensures your investment is properly installed from Day One by a certified Chyron representative.

EXTENDED WARRANTIES
Finally, all Chyron products come with a One (1) year factory-backed warranty (parts, labor & software upgrades). Extended Warranties on all your purchases can be added at any time for an annual fee. Please contact our sales professionals.

DESIGN AND OPERATION TRAINING
We offer Design and Operation training, either in your facility or via our on-line web portal. Our expert trainers can teach your staff the most efficient way to create and deliver stunning content for your productions.

ABOUT US

Chyron is ushering in the next generation of storytelling in the digital age. Founded in 1966, the company pioneered broadcast titling and graphics systems. With a strong foundation built on over 50 years of innovation and efficiency, the name Chyron is synonymous with broadcast graphics. Chyron continues that legacy as a global leader focused on customer-centric broadcast solutions. Today, the company offers production professionals the industry's most comprehensive software portfolio for designing, sharing, and playing live graphics to air with ease. Chyron products are increasingly deployed to empower OTA & OTT workflows and deliver richer, more immersive experiences for audiences and sports fans in the arena, at home, or on the go.

CONTACT SALES

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Chyron