



Chyron®



PRIME VIDEO WALLS

**LED Video Wall Scene
Design & Playout**





Take Advantage of Each and Every Pixel

PRIME Video Walls is a robust scene creation and video processing solution for video walls of any screen size and shape. As broadcasters look to make dynamic LED video wall displays a centerpiece of their in-studio storytelling, PRIME Video Walls provides all the tools you need to scale graphics to your display and nail your on-air look.

PRIME Video Walls is an application of the PRIME Platform, Chyron's full-featured production engine that powers the full spectrum of live content creation and distribution. PRIME combines video processing, clip players, and real-time graphics into a single authoring and playout platform - making it easy to get professional-grade content to your video wall displays. With a resolution-agnostic architecture, you can go live with content in all industry-standard resolutions and formats across displays of over 33 million pixels in size.

Crucially, PRIME Video Walls synchronizes a virtually unlimited number of pixels to multiple outputs - a single output channel is powerful enough to deliver unique presentations to four separate or merged monitors. Additionally, versatile sub-channel technology allows clients to define custom-sized areas within a large canvas output, to playout graphics to any position, on any screen, in any order.

With smooth integration into producer-driven MOS workflows, PRIME Video Wall makes it easy for your newsroom team to leverage your video wall displays for any story in your everyday programming.

Stunning LED Displays for Your Everyday Programming



INTELLIGENT BASE SCENE DESIGN

Extremely useful when designing for specific display layouts, PRIME can use a single base scene as a reference for any other scene during creation. With full access to all scene elements – such as conditions, events, triggers, data-binding, and more – a designer can make full-package edits in minutes instead of hours!



PIXEL-ACCURATE MAPPING

No matter the density of pixels, PRIME offers frame-precise playout across ultra-large and multi-display setups. Through PRIME Video Wall's G-Sync technology, multiple PRIME engines can work in tandem to deliver content to the entirety of your video wall real-estate - with no latency between systems.



SUB-CHANNEL SCENE LAYOUT

PRIME Video Wall's versatile sub-channel technology creates a canvas where producers can define custom-sized areas within a larger output channel to play out graphics in any position or layer-order on your video wall. Sub-channels greatly simplify creating dynamic, animated scenes on non-traditional displays.



TEMPLATE-BASED MOS WORKFLOW

Via integration with CAMIO's template-based MOS workflow, your producers and journalists in the newsroom can access and edit PRIME Video Walls templates directly within your NRCS of choice. Without the need for specialized operators, you can create exciting video wall scenes for every story in your news rundown.

KEY FEATURES



UNIVERSAL DESIGN INTERFACE

PRIME Designer is the common authoring foundation for graphic scenes in PRIME CG, PRIME Video Walls, and all other modules of the PRIME 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.



DATA-ENRICHED GRAPHICS

In addition to its display processing, PRIME Video Walls' powerful data binding to scene elements enables easy visualization of data for showcasing real-time events as they unfold. Bring dynamic, data-driven graphics to life on your studio video wall displays to enrich elections coverage, gameplay analysis, financial programs, and much more.



EDITABLE GRAPHIC TEMPLATES

From creation to layout, PRIME Video Walls ensures that your entire team can leverage editable scene templates in their everyday programs of choice. Designers can utilize base scene elements for rapid package creation and editing. Meanwhile, producers and journalists can access video wall scenes in their NRCS via CAMIO for use in the rundown.



LIVE SET DESIGN

While PRIME Designer provides an intuitive canvas to design your video wall scenes, sometimes you want to see how it looks on the display itself as you're editing. With PRIME Video Walls, you can output the PRIME designer canvas to any defined output channels to see your design as you work on it live on your display monitors.

KEY FEATURES



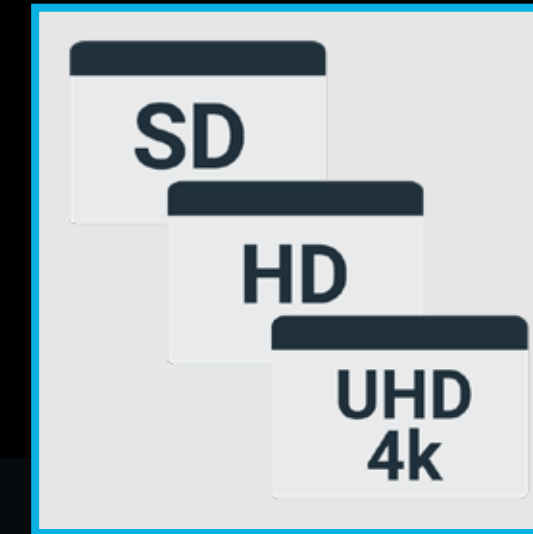
SUB-CHANNEL LAYOUTS

Sub-channels are a feature favorite of PRIME Video Walls clients, greatly simplifying the creation of complex, animated scenes across ultra-large or multiple displays. With sub-channels, producers can define custom-sized areas of a larger output channel and to place graphics in any position, on any part of your display, in any layering or order.



G-SYNC PIXEL MAPPING

PRIME Video Walls' G-Sync technology delivers frame-accurate content across multiple PRIME engines simultaneously - with no latency between system transfers - synchronizing a virtually unlimited number of pixels across outputs. A single channel of PRIME Video Walls can deliver unique presentations across four individual monitors or merged displays.



RESOLUTION-AGNOSTIC

PRIME Video Walls' modern architecture uses the newest technologies and industry standards, enabling user-defined input/output configurations with SDI, DVI, and DisplayPort connections. Compatible with HD and UHD-4K resolutions for 3D graphics and video clips, PRIME's high-channel density handles the most demanding studio production needs.



END-TO-END HDR WORKFLOW

PRIME Video Walls is a complete HDR workflow from creation to playout. With built-in SDR & HDR cross conversion, there's no need to recreate existing content. Heighten audience engagement and viewership with spectacular graphics and video content across multiple non-standard studio displays with native support for HDR and UHD/4K.

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 | <ul style="list-style-type: none">• 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 |

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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 800W with Input 100 - 127 VAC• 1000W with Input 100 - 240 VAC• 1000W with Input 200 - 240 VAC |

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

EMEA • North America • Latin America • Asia/Pacific
+1.631.845.2000 • sales@chyron.com

