

Brilliant Graphics and Performance-Rich Technology

HyperX² is the crown jewel in Chyron's graphics system suite. The turnkey system combines the awardwinning Lyric[®] PRO motion graphics feature set with a newly implemented video graphics processor module that delivers the most advanced graphics technology imaginable. The heart of the HyperX² is a high-speed, multi-core, dual-processor graphics engine, which can simultaneously manipulate hundreds of 3D layers of text, logos, textures and movie objects, all in real time. The intuitive Lyric[®] software platform provides precise control over every transition and effect, with a broad array of adjustments already familiar to users of 3D creation tools and NLEs.

The HyperX² features seamless creation-to-playout capability and is scalable with up to two software-switchable HD/SD channels, each of which can integrate powerful options, including an eFX clip player, 3D DVE and Second Video Input. An open platform ensures interoperability, so that HyperX² can take maximum advantage of the latest innovations by integrating the most current video processing hardware.

Breathtaking Graphics

Create, edit and update captivating graphics and take them to air with the one application that has redefined television production. Content can be created on- or off-line, locally or remotely. HyperX²'s supreme flexibility supports the import and export of numerous standard file types and automatic aspect ratio conversion. With Chyron's powerful Lyric PRO graphics application, the high-performance HyperX² is the definitive choice for the most demanding studio and mobile live broadcast and production operations.

Familiar, timeline-based animations and drag-and-drop scene building emulate the leading nonlinear editing applications, making the HyperX² easy to learn and limitless in its capability. Each object and its attributes are controllable from discrete timelines, and on-screen motion paths provide pinpoint accuracy. Pages can be tied together with customizable transitions that add dynamic continuity and complexity.

Create One-of-a-Kind Graphics with Lyric[®] PRO 7

(R)Evolutionary by Design, Chyron's Lyric[®] PRO 7 on the HyperX², a revolution in graphics production and performance. Driven by Chyron's breakthrough interFuse[™] Technology, Lyric PRO 7 is engineered with innovative features, including Adaptable Primitives Geometry, a native FBX[®] Importer and Intelligent Transitions², providing Interactive Messages with persistent objects and multiple timelines. A new, powerful continuous graphics rendering engine is the core provider of unrivaled, real-time, high-end 3D animations. Hierarchical grouping and keyframe timeline attributes provide designers with a familiar and interactive toolset and direct integration with industry-standard applications, including Adobe[®] Creative Suite[®] and GenArts[®] Sapphire Plug-ins[®] effects. And all the power that makes a pro love Lyric PRO!

Full Interoperability with Live Data Sources and the Newsroom

Time-critical news and sports environments demand the ability to update text and graphics at a moment's notice. The HyperX² offers quick, manual update, as well as an indispensable set of update tools, including the industry-standard Chyron Intelligent Interface[®] featuring Continuous Update, and DB Link for update from databases. Specialized, third-party live data import applications, including Harvester Pro, sports tickers and news services are also available. The HyperX² interfaces with the CAMIO Newsroom Integration and Media Asset Management system, as well as Chyron's iSQ Multi-Channel Remote Playlist Controller.

Graphics on Demand Anytime, Anywhere, with Axis

Chyron Online's Axis Graphics provides powerful tools for quickly creating static and animated maps, news, weather and financial graphics, charts and graphs in a web-hosted, self-serve environment. Axis pulls real-time data from feed services to render graphics with the most up-to-date information, which can then be immediately imported for compositing in Lyric PRO. Axis Graphics is a separately purchased service.

HyperX

World's Most Advanced Graphics System



Features

- Lyric[®] PRO, Chyron's powerful creation/playout software
- Effortless multi-scene compositing
- Intelligent Transitions²
- True WYSIWYG composition in 3D space
- Powerful, real-time 2D/3D animation
- High-quality, full scene anti-aliasing
- Template-based text and graphics creation and playout
- Object and attribute timelines for precision control of all elements
- Online and offline graphics creation
- Integrated Video and Audio Mixers
- Pie FX and Pie Charts 3D (optional)
- 3D primitives object library
- 4:3/16:9 auto format conversion with multiple, real-time video outputs
- Extensive library of file types supported, including OBJ, 3DS, MOV, TIF, TGA, BMP, JPG, iNFiNiTI[®] Family, Quantel[®], SGI[®] and many more
- Uses standard TrueType[®] fonts
- Timeline control of flipbook animations, 2D, 3D, movie and audio objects
- Resolution-independent rendering for a variety of HD and SD output formats
- Macro scripting and execution
- Intelligent Interface[®] for serial and/ or Telnet control and text/graphics update
- GPI In/Out
- Redundant power supplies





Technical Specifications

Base Channel Configuration

The base configuration of the HyperX² is one SDI HD/SD-switchable channel. The system can contain up to two HD/SD channels, each of which can be upgraded with integrated eFX Clips, DVE and/or Second Video Input.

Digital Video Inputs/Outputs (per Channel)		
Input		1 SDI Video In (can also serve as digital Gen/Lock input); optional Second Video Input provides 1 additional SDI Video In
Outputs		1 SDI Video, 1 SDI Key
Туре		All BNC for input and output
Impedance		75 ohms
Data Formats:	SD SD HD	10-bit, 270 Mb/s ITU-R Bt.656 SMPTE 259M-C 10-bit, 270 Mb/s ITU-R BT.656-4 10-bit, 1.485 Gb/s ITU-R Bt.709 SMPTE 292M

Analog Input - Gen/Lock (per Channel)	
Gen/Lock	1 analog black burst; can also accept tri-level analog sync
Туре	BNC
Impedance	75 ohms
Format	1 volt p-p composite video, 525/625

Analog Output - Monitoring (per Channel)	
Monitoring	1 SD analog composite out
Туре	BNC
Impedance	75 ohms
Format	NTSC/PAL

Audio

HyperX² can capture/pass any combination of 8 channels from the 16 SDI embedded and 4 AES input channels. Up to 16 mono or 8 stereo WAV files can also simultaneously be played out. On channels with the eFX Clip option, audio can be captured as WAV files. Using the integrated Audio Mixer, SDI embedded, AES and WAV files can be used as sources for static and dynamic mixes and routing configurations, including fade-ins, fade-outs, duck-unders, etc. Audio Mix objects can be added to the Lyric timeline.

SDI Embedded Audio	Up to 8 of the channels of embedded audio can be captured/passed through as described above. Can input up to 16 channels of embedded audio, all of which can be passed directly through to output as embedded audio (ancillary data).
WAV Files	Can play out up to 16 mono or 8 stereo WAV files. WAV files can be mixed with and output as embedded and/or AES audio. On channels with an eFX Clip option, audio can be captured as WAV files. WAV files must be 16-bit/48 kHz. Broadcast WAV (BWAV) format is supported
AES Inputs	2 AES3id for 2 stereo tracks or 4 mono tracks
AES Outputs	4 AES3id for 4 stereo tracks or 8 mono tracks
AES Connection Type	BNC, unbalanced

Dimensions				
Chassis	Height	Width	Depth	Weight
4RU	17.8cm/7"	48.3cm/19"	63.5cm/25"	27.3kg/60lbs

Base System Configuration

Windows [®] XP Professional OS
Dual 2.0GHz or higher Quad-Core Intel [®] Xeon [®] processors
4GB DDR-RAM
Chyron HD/SD-switchable eFX channel
Graphics accelerator card
SATA system drive
Striped SATA drive pair for media
5-slot SATA drive bay (contains system and media drives)
DVD±RW drive
PS/2 PC keyboard & mouse

Two RJ-45 Gigabit Ethernet ports

Hardware/Software Options
Pie FX
Additional eFX Channel
eFX Clip Option (per channel)
DVE Option (per channel)
Second Video Input (per channel)
Video Bypass Panel
Chyron keyboards (English & International)
Striped drive pair for media
KVM Extender Kit
RGB Tools graphics editing plug-in
Harvester Pro web harvesting plug-in
Quarterback asset browsing plug-in
BizGraph animated graphing plug-in
Liberty Twister Paint/Rotoscoping plug-in

GPI I/O Connections		
Connections	32 (16 In/16 Out)	
Туре	DB37	
Format	5V TTL	

Power	
Power Supply	3 x 200W N+1 redundant, hot-swappable AC power supplies with Power Factor Correction (PFC)
Power	100-240VAC, 50/60Hz, 12 Amps

Americas +1 631 845 2031 Americas@chyron.com EAME +44 118 916 8480 EAME@chyron.com Asia/Pacific +1 905 527 2208 Asia@chyron.com

Specifications subject to change

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