



The Company  
the Whole World  
Watches.

LEX<sup>2</sup>

The Worldwide Choice for News and Sports Graphics



## The Whole World Watches...

With the LEX<sup>2</sup>, Chyron builds on the strong success of its LEX graphics system, long a staple in top SD broadcasting studios, control rooms and mobile units worldwide. The LEX<sup>2</sup> extends the power of the LEX, with a powerful new rendering platform and a host of options including HD, integrated clips, DVE and Second Video Input. Scalable to fit graphics needs, technical requirements and budget, the LEX<sup>2</sup> can be configured with one or two SD or HD/SD-switchable channels.

Electrifying graphics that energize high-profile productions are created and played out from Chyron's award-winning Lyric<sup>®</sup> and optional Lyric<sup>®</sup> PRO applications running on the LEX<sup>2</sup>. Advanced features, including seamless creation-to-playout and premium Lyric options make the LEX<sup>2</sup> the definitive choice for news, sports and live event coverage.

The LEX<sup>2</sup> interfaces easily to a wide variety of data feeds and third-party applications. Interoperability with external systems is ensured by template-based graphics creation and a wide variety of interface choices, including the optional Intelligent Interface<sup>®</sup>, DB Link and macro creation/execution. Facilities can design their own custom interfaces with an API for custom plug-ins.

## Powerful Design Tools with Lyric<sup>®</sup>

Take to air brilliant, captivating graphics with the intuitive application that has redefined television graphics design and layout. Content can be created on- or offline, locally or remotely. LEX<sup>2</sup>'s supreme flexibility supports the import and export of numerous standard file types, and automatic aspect ratio conversion. Familiar, timeline-based animations and drag-and-drop scene building emulate the leading nonlinear editing applications, making LEX<sup>2</sup> easy to learn and limitless in its capability. Each object and its attributes are controllable from discrete timelines, and on-screen motion paths and keyframes provide pinpoint accuracy. Pages can be tied together with customizable transitions that add dynamic continuity and complexity.

## Lyric<sup>®</sup> PRO Option Creates One of a Kind Graphics

(R)Evolutionary by Design, Chyron's Lyric<sup>®</sup> PRO 7 on the LEX<sup>2</sup>, is a revolution in graphics production and performance. Driven by Chyron's visionary InterFuse™ Technology, Lyric PRO breaks the bonds of conventional graphics applications. Lyric PRO 7 is engineered with innovative features, including Adaptable Primitives Geometry, a native FBX<sup>®</sup> Importer and Intelligent Transitions<sup>2</sup>, 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 to industry-standard applications, including Adobe<sup>®</sup> Creative Suite<sup>®</sup> and GenArts<sup>®</sup> Sapphire Plug-ins<sup>®</sup> 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 LEX<sup>2</sup> offers quick, manual update, as well as an indispensable set of optional 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, such as Harvester Pro, sports tickers and news services are also available. The LEX<sup>2</sup> interfaces with Chyron's CAMIO Newsroom Integration and Media Asset Management systems, 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 and Lyric PRO. AXIS Graphics is a separately purchased service.

## Features

- Compact, cost-effective, single- or dual-channel graphics system with integrated video mixer
- True WYSIWYG composition in 3D space
- Real-time, simultaneous animation of 2D text, 3D text, 2D graphics, 3D objects, and movie files in scene (3D Objects/Text, Movie Objects optional)
- Continuously updating roll, crawl and static text, displaying data from external sources (requires Intelligent Interface<sup>®</sup> option)
- Option to upgrade to HD for future-proof operation
- Effortless multi-scene compositing with Lyric<sup>®</sup> PRO (optional)
- Intelligent Transitions<sup>2</sup> (optional - provided with Lyric PRO)
- Windows<sup>®</sup>-based platform, ensuring interoperability, scalability, upgradeability and easy networking
- Integrated eFX clips (optional)
- Integrated DVE (optional)
- Integrated Second Video Input (optional)
- GPI In/Out
- Redundant power supplies



# Technical Specifications

## Base Channel Configuration

The base configuration of the LEX<sup>2</sup> is one SDI SD channel, which can be upgraded to HD/SD-switchable without a hardware change. The system can contain up to two channels, each of which can be upgraded with integrated eFX Clips, DVE and/or Second Video Input.

## HD/SD-Switchable 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	
Type	All BNC for input and output	
Impedance	75 ohms	
Data Formats:	SD	10-bit, 270 Mb/s ITU-R Bt.601 SMPTE 259M-C
	SD	10-bit, 270 Mb/s ITU-R BT.656-4
	HD	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 for HD
Type	BNC
Impedance	75 ohms
Format	1 volt p-p composite video, 525/625

## Analog Output - Monitoring (per Channel)

Monitoring	1 SD analog composite out
Type	BNC
Impedance	75 ohms
Format	NTSC/PAL, based on SDI output

## Audio

LEX<sup>2</sup> 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. WAV file payout requires the eFX Clip option or Clip Control Panel option. 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 (BWA) 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"	55.9cm/22"	16.14kg/40lbs

## Power

Power Supply	2 x 300W dual redundant power supply with Power Factor Correction (PFC); 100V AC to 240V AC
Power Requirements	6A (RMS) @ 110VAC, 3A (RMS) @ 220VAC

## Base System Configuration

Windows <sup>®</sup> XP Professional OS
2.40Hz or greater Intel <sup>®</sup> Core 2 Duo processor
2GB DDR-RAM
Chyron HD/SD-switchable eFX channel
Graphics accelerator card
Internal system drive
Striped drive pair for media in 4-slot trayless SATA drive bay
DVD±RW drive
3.5" floppy drive
PS/2 PC keyboard and mouse
RJ-45 Gigabit Ethernet

## Hardware/Software Options

Lyric PRO
Lyric Premium Package
Pie FX
3D Objects
Movie Objects
Macro scripting and execution
Intelligent Interface <sup>®</sup> for serial/Telnet control and text/graphics update
DB Link for text/graphics update from database
Advanced Text Effects/Animate Elements
Advanced Image Effects
Clip Control Panel
Additional eFX channel
HD Upgrade
eFX Clips Option (per channel)
3D DVE (per channel)
Second Video Input (per channel)
Video Bypass Panel
Chyron keyboards (English & International)
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 plug-in

## GPI I/O Connections

Connections	24; can be configured in groups of eight as GPI In or GPI Out
Impedance	50 ohms
Format	TTL level only

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