



The Company
the Whole World
Watches.

LEX²

The Worldwide Choice for News and Sports Graphics



The Whole World Watches...

With the LEX², 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 LEX² 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 LEX² 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® and optional Lyric® PRO applications running on the LEX². Advanced features, including seamless creation-to-playout and premium Lyric options make the LEX² the definitive choice for news, sports and live event coverage.

The LEX² 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®, 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®

Take to air brilliant, captivating graphics with the intuitive application that has redefined television graphics design and playout. Content can be created on- or offline, locally or remotely. LEX²'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 LEX² 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® PRO Option Creates One of a Kind Graphics

(R)Evolutionary by Design, Chyron's Lyric® PRO 7 on the LEX², 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® 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 to 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 LEX² 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 LEX² 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® option)
- Option to upgrade to HD for future-proof operation
- Effortless multi-scene compositing with Lyric® PRO (optional)
- Intelligent Transitions² (optional - provided with Lyric PRO)
- Windows®-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 LEX² 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

LEX² 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 playout 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 (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" | 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® XP Professional OS |
| 2.40Hz or greater Intel® 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® 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 |

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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www.chyron.com