



The
Company
the Whole World
Watches.

SOLO²

Laptop Graphics System

SOLO² – Portable Power on the Move

SOLO² is Chyron's unique, powerful, single-channel, portable graphics system that can be quickly connected to a broadcast facility and up-and-running in minutes. As a CG-in-a-briefcase, it features an integrated desktop display, and is compact and rugged enough to be carried as hand luggage for air travel. SOLO²'s advanced engineering, coupled with Chyron's powerful graphics applications, makes it an ideal, cost-effective solution for mobile and studio broadcast and production operations.

SOLO² provides no-compromise graphics for the most demanding applications. Featuring broadcast-quality, real-time animation and seamless interoperability with external systems, SOLO² is especially suited to automation environments that require text and graphics payout. With the ability to easily update from a variety of sources, it is the perfect graphics system for fast-paced, live environments. Serving the complete range of format requirements, SOLO² is HD/SD-switchable and can integrate an optional DVE for a truly unrivaled package.

Brilliant Graphics out of the Box

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. SOLO²'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, SOLO² 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 SOLO² 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 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. SOLO² 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. SOLO² 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 PRO. AXIS Graphics is a separately purchased service.



Features

- Compact, rugged portable design with integrated desktop display
- HD/SD-switchable
- Real-time animation creation and payout
- Effortless multi-scene compositing with Lyric[®] PRO Intelligent Transitions
- 2D/3D text and objects
- Movie Objects
- Intelligent Interface[®] update via serial or Telnet
- DB Link for update from databases
- Continuously updating roll, crawl and static text, displaying data from external sources
- Integrated Video Mixer
- Integrated DVE for spectacular transitions (optional)
- Integrated Second Video Input (optional)
- GPI inputs and outputs
- LEIF and CAL graphics payout (CAL Runtime optional)
- Gigabit Ethernet networking
- Integrated Audio Mixer



Custom Graphics Payout with LEIF and the CAL Option

SOLO² can play out LIEF* and CAL* content, which can be created on- or off-line, locally or remotely. Developers can create applications in LEIF that access Lyric server's powerful rendering engine to perform image processing, import and export to custom file formats, automate template field updates, implement remote application control, access browser data and handle numerous diverse operations. With the CAL option, SOLO² supports legacy CAL applications and can serve as a graphics creation/payout platform for new CAL applications. LEIF and CAL are built on Microsoft® COM technology. Applications can be written using any development environment that supports COM, including Visual Basic®, Delphi® and Visual C++®.

* The LEIF SDK is available on request. CAL content payout requires the CAL Runtime option.

Technical Specifications

HD/SD-Switchable Video Inputs/Outputs (per Channel)							
Input	1 SDI Video In - can also serve as digital Gen/Lock input						
Outputs	1 SDI Video, 1 SDI Key						
Type	All BNC for input and output						
Impedance	75 ohms						
Data Formats:	<table border="0"> <tr> <td>SD</td> <td>10-bit, 270 Mb/s ITU-R Bt.601 SMPTE 259M-C</td> </tr> <tr> <td>SD</td> <td>10-bit, 270 Mb/s ITU-R BT.656-4</td> </tr> <tr> <td>HD</td> <td>10-bit, 1.485 Gb/s ITU-R Bt.709 SMPTE 292M</td> </tr> </table>	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
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Analog Input - Gen/Lock (per Channel)	
Gen/Lock	1 analog black burst; can also accept tri-level analog sync
Type	BNC
Impedance	75 ohms
Format	1 volt p-p composite video, 525/625

Analog Output - Monitoring	
Monitoring	1 SD analog composite out
Type	BNC
Impedance	75 ohms
Format	NTSC/PAL

Audio	
SOLO ² 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. 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 (BWF) 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

Audio
The Clip Panel option provides WAV file playback; 16- to 24-bit, 48KHz Dolby® E pass-through capable

Display
Integrated 17" WUXGA+ LCD up to 1920x1200 Supports external displays with resolutions to 1920x1200

Power	
Power Supply	110/220V 50/60Hz switching power supply

Base Configuration
Rugged chassis with integrated desktop display
Windows® XP Professional OS
Chyron HD/SD-switchable eFX channel
Graphics accelerator card
System drive
DVD±RW drive
USB PC keyboard and mouse
Gigabit Ethernet

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

Dimensions				
Chassis	Height	Width	Depth	Weight
	11.5	16.8	5.7	20lbs

Hardware/Software Options
Lyric® PRO
DVE
Second Video Input
RGB Tools graphics editing plug-in
Harvester Pro web harvesting plug-in
Quarterback asset browsing plug-in
BizGraph animated graphing plug-in
Liberty Paint/Rotoscoping plug-in

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Specifications subject to change

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