



The Company  
the Whole World  
Watches.

# MicroX

Single-Channel Broadcast CG



## Single Channel... Singular Performance...and Now Lyric PRO!

MicroX is Chyron's powerful, entry-level, single-channel character generator with high end features far beyond comparable systems. Advanced engineering, coupled with Chyron's award-winning Lyric® graphics application make the MicroX an ideal, low-cost solution for studio and mobile broadcast and production operations. Completing this package is the ability now to run Lyric PRO, Chyron's advanced layout and creation option.

Featuring broadcast-quality, real-time animation and seamless interoperability with external systems, the MicroX is also suited to automation environments that require text and graphics playout without clips. Easily able to update from a variety of sources, it is the perfect CG for the fast-paced live environment. The MicroX can upgrade with a host of optional premium Lyric features including Lyric PRO, 3D Objects, Movie Objects, Advanced Image Effects and more to enhance graphics presentation. Serving a wide range of format requirements, it is available in HD/SD-switchable, SD digital and SD analog configurations.

## Breathtaking Graphics 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. MicroX'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 MicroX 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, Powerful Design Tools

(R)Evolutionary by Design, Chyron's Lyric® PRO 7 on the MicroX 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 MicroX 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 MicroX interfaces with Chyron's CAMIO Newsroom Integration and Media Asset Management systems, as well as Chyron's iSQ Multi-Channel Remote Playlist Controller.

## Powerful Software Options

Expand your connectivity and creativity with a range of premium Lyric options:

- Lyric PRO
- Lyric Premium Package
- 3D objects
- Movie objects
- Macro scripting and execution
- Advanced Image Effects
- Advanced Text Effects/Animate Elements
- Intelligent Interface® for serial and/or Telnet control and text/graphics update
- DB Link for text/graphics update from database
- Clip Control Panel for WAV file playout

## 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

- Ultimate performance in a single-channel, real-time graphics system
- Includes Lyric®, Chyron's award-winning graphics software; upgradeable with premium Lyric features
- Effortless multi-scene compositing with Lyric® PRO
- Intelligent Transitions² (optional)
- Persistent Objects with Lyric PRO (optional)
- Continuous rolls and crawls with "live" data connect
- Composition and animation in 3D space; true WYSIWYG display
- Powerful, real-time animation
- Template-based text and graphics creation and playout
- Object and attribute timelines for precision control of all elements
- Cost-effective solution available in HD/SD or SD-only
- Windows®-based platform, ensuring interoperability, scalability, upgradeability and easy networking
- GPI In/Out
- Internal Keyer
- Gigabit Ethernet networking
- Redundant power supplies

On Air



On-line



On The Move



# Technical Specifications

## Base Channel Configuration

The base configuration of the MicroX is one HD/SD, SD SDI or analog channel. Specifications for each channel type, as well as additional specifications, are shown below.

## HD/SD-Switchable Video Inputs/Outputs (eFX 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:	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

## Digital Video Inputs/Outputs (Digital SD Channel)

Inputs	1 SDI Video with bypass; can also serve as digital Gen/Lock input, 1 SDI Key	
Outputs	1 SDI Video, 1 SDI Key	
Type	All BNC for input and output	
Impedance	75 ohms	
Data Formats:	10-bit, 270 Mb/s ITU-R Bt.656 SMPTE 259M-C	
	10-bit, 270 Mb/s ITU-R BT.656-4	

## Analog Video Inputs/Outputs (Analog Channel)

Inputs	1 composite Video with bypass, 1 composite Key	
Outputs	1 composite Video, 1 composite Key	
Type	All BNC for input and output	
Impedance	75 ohms	
Formats:	NTSC 1 volt p-p composite, 525	

## Analog Input - Gen/Lock (HD/SD, Digital SD and Analog SD 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 (HD/SD Channel)

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

## Analog Output - Monitoring (Digital SD Channel; Not Available for Analog SD Channel)

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

## Dimensions

Chassis	Height	Width	Depth	Weight
4RU	17.8cm/7"	48.3 cm/19"	55.9 cm/22"	18.14 kg/40lbs

GPI I/O Connections	MicroX HD/SD	MicroX SD - Only
Connections	24; can be configured in groups of eight as GPI In or GPI Out	16; each of which can be configured as GPI In or GPI Out
Type	DB37	DB25
Impedance	50 ohms	50 ohms
Format	TTL level only	TTL level only

## 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 Intel® Core 2 Duo processor (MicroX HD/SD)
Intel® Pentium® 4 processor (MicroX SD-Only)
2GB RAM (MicroX HD/SD); 1GB RAM (MicroX SD-Only)
Chyron HD/SD-switchable eFX channel (MicroX HD/SD)
Chyron CODI® channel (MicroX SD-Only)
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
Gigabit Ethernet

## Audio

Audio specs available.

## Additional Hardware/Software Options

Pie FX
Striped drive pair for media
Chyron keyboards (English & International)
KVM Extender Kit
Plug-ins: RGB Tools graphics editing, Harvester Pro web harvesting, Quarterback asset browsing, BizGraph animated graphing, Liberty Paint

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Specifications subject to change

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