



The All-In-One Multi-Sport,
Multi-Revenue-Generating Graphics Solution

SPORTS FX ENGINE

PRODUCT INFORMATION SHEET

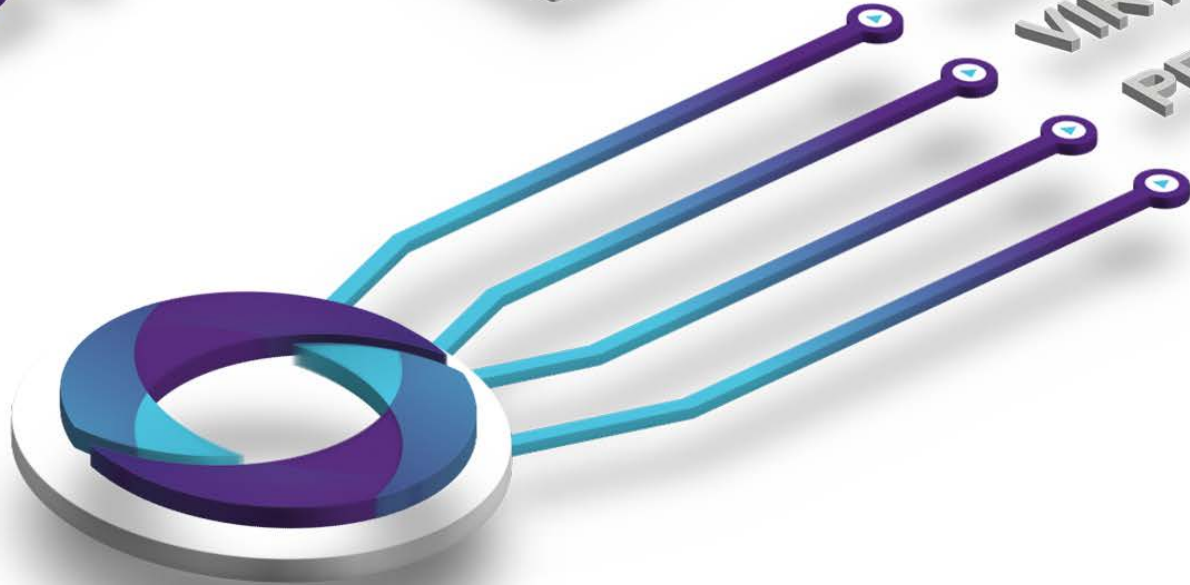
SPORTS EX ENGINE

VIRTUAL PLACEMENT

VIRTUAL 1ST

PRIME INTERACTIVE

PAINT



TODAY'S SPORTS VENUE PRODUCERS FACE A CHALLENGE.

Fans, no matter where they are in the arena or stadium, want to visually experience the enhanced graphics they're used to seeing on live TV. ChyronHego's Sports FX Engine provides this capability today.

Multiple advanced graphics applications, accessible from a single Sports FX Engine, allow sophisticated augmented and virtual reality graphics or replay and highlight telestration to be generated before, during, and after the game. These unique graphics applications, which are widely used by broadcasters, are now available for in-venue productions.

A key driver for in-venue adoption is the video/sports agnostic nature of ChyronHego applications, which provides an amazing, quick ROI through their use across multiple live sports productions.



VIRTUAL PLACEMENT ADVANCED VIRTUAL GRAPHICS MADE EASY

Virtual Placement from ChyronHego is a remarkably powerful tool that turns the complex art of placing virtual graphics within live video into a quick and simple process. There's no need to add any specialist camera encoders. Revenue-generating virtual graphics can be placed into a scene within minutes of setup, ready for use across a multitude of sports applications.

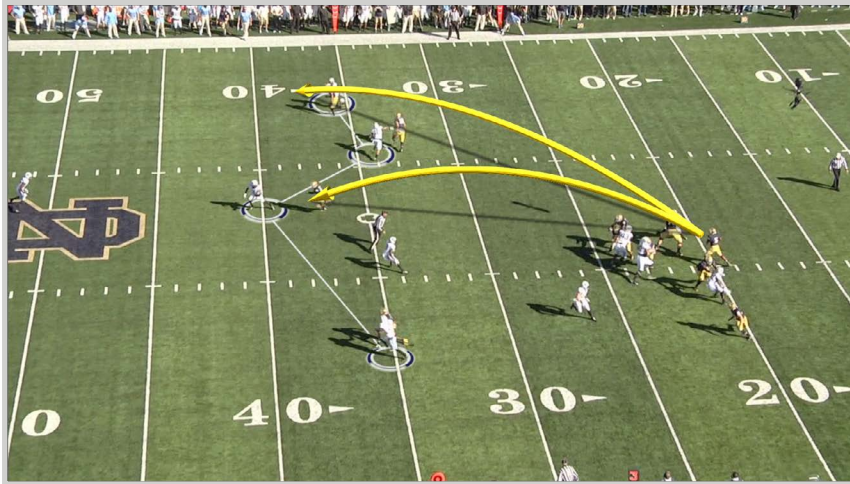


VIRTUAL 1ST DOWN & DISTANCE SOLUTION FOR AMERICAN FOOTBALL

Virtual 1st, ChyronHego's innovative Down & Distance solution for Football, combines video overlay and sensorless camera technology to help in-venue producers quickly analyze gameplay and tell an engaging and easy to follow story.

Revenue-generating Red Zone graphics are easily incorporated for unique advertising opportunities.





PAINT THE POWER OF THE ILLUSTRATED REPLAY™

Paint is used to visually analyze game-play within sport by graphically enhancing and highlighting video using a variety of Paint's highly intuitive telestration tools. The combination of replay, graphics and analysis, the "Illustrated Replay" provides revenue generating opportunities with embedded sponsored logos placed within the telestrated graphic or on any playing surface.



PRIME INTERACTIVE IN-STUDIO TOUCHSCREEN

PRIME Interactive has been deployed on hundreds of high profile live productions to enhance coverage of live sporting events. Visually stunning interactive touchscreen applications are incorporated into live venue sports environment as sponsored host shows and or sponsored host interviews of athlete segments.



TECHNICAL SPECIFICATIONS

- Please refer to the Installation Guide for detailed technical specifications and installation instructions.

BASE SYSTEM CONFIGURATION

- Microsoft® Windows® 7 Ultimate 64-bit O/S
- Quad-Core Intel® Xeon® Processor
- 8GB RAM
- NVIDIA® Quadro® K2000 Professional Series Graphics Accelerator
- 200GB SSD System Storage
- Keyboard and mouse

POWER

- 2 x 740 Watt Redundant AC-DC high-efficiency power supplies
- AC Input 100-240V, 60-50Hz, 9 Amp Max, 3.2 Amps @120VAC Typical

DIMENSIONS

- The system chassis mounts in a standard 19 in. rack.
- **Height:** 2RU, 8.9cm/3.5in.
- **Width:** 43.7cm/17.2in.
- **Depth:** 63cm/24.8in.
- **Weight:** 22.7kg/50lbs.

VIDEO STANDARDS

- SD 576i 50Hz 16:9/4:3 (PAL)
- SD 486i 59.94Hz 16:9/4:3 (NTSC)
- HD 720p 50/59.94Hz 16:9
- HD 1080i 50/59.94Hz 16:9
- HD 1080p 50/59.94 Hz 16:9

INPUTS/OUTPUTS

- Bluefish 444 Video I/O Card
- **Input:** 3 x SDI Input on a 75 Ω BNC Connector
- **Output:** 3 x SDI Output on a 75 Ω BNC Connector
- **Genlock:** Bi-level & Tri-level Analogue Genlock, 3G-SDI, HD-SDI, SD-SDI on a 75 Ω BNC Connector
- Single RS232 port
- 2 RJ45 Gigabit Ethernet Connectors
- 4 USB 2.0 ports rear

ABOUT CHYRONHEGO

ChyronHego, a portfolio company of Vector Capital, is a global leader in products, services, and solutions for the broadcast and sports industries. Specializing in live television, news, and sports production, ChyronHego offers some of the industry's most widely deployed solutions — including Lyric®, the world's most popular broadcast graphics creation and playout offering; the all-new CAMIO® Universe newsroom workflow; and TRACAB® Optical Tracking, the global leader in optical sports tracking systems as well as Click Effects, the most proven and versatile stadium broadcast family of graphics products. Headquartered in Melville, New York, ChyronHego also has offices in the Czech Republic, Denmark, Finland, Germany, Mexico, the Netherlands, Norway, Singapore, Slovak Republic, Sweden, and the United Kingdom.

For more information on ChyronHego, visit www.chyronhego.com.

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