TrackVision FDL

Sensor-free "first down line" system

Turn any American football broadcast into an exciting and insightful viewing experience. Using revolutionary image processing tracking technology, TrackVision FDL enables you to superimpose virtual graphics over the playing field to enhance the game. The overlaid graphics remain tied to their exact position, regardless of camera motion. It's a versatile, compact, and cost-effective sports enhancement solution that can be used in the production truck at the venue, in your studio, or in post-production.

Get the first down—and more

Showing the first down line is undoubtedly one of the most important enhancement features you can incorporate into your football broadcast. With TrackVision FDL, the first down line is instantly drawn as it automatically detects which camera is used and places the graphics accurately in the right perspective.

In addition to the first down line, you can also draw and display graphics on the field to indicate:

- The scrimmage line, current down number, and down distance
- A red line indicating the yard line needed to reach field goal range for a kick
- The red zone, with a display of the team's red zone statistics

Superimpose speed and stats

With TrackVision FDL, you can measure the speed of any moving object on the field—whether it's the ball, a player, or a thrown flag—and show the speed on the screen. Yards passed and the distance between any two objects can be measured as well. You can also tie team logos and game score graphics to the field, highlight any object, and import game statistics from external databases to enhance the game viewing experience.

Generate extra revenue

TrackVision FDL makes it easy to add a sponsor to any graphics enhancement using the intuitive user interface. Simply add the sponsor's logo to any enhancement element. When the enhancement is displayed on air, the sponsor's logo will also be shown, generating new revenue possibilities with each broadcast.

Get sensor-free tracking

At the heart of TrackVision FDL rests our revolutionary image analysis and tracking technology. By monitoring the video feed, TrackVision FDL analyzes the live signal and extracts the tracking information—with precise accuracy—eliminating the need to install a physical sensor on the camera. The system analyzes the direct program out feeds and doesn't require a dedicated "clean feed" for operation.

Work faster and easier

With TrackVision FDL, a single person can set-up and calibrate the system in just a few minutes. This is particularly important in live production where preparation time may be limited. And operation is extremely easy. Enhanced graphics can be displayed from your three main cameras, as well as from your end zone cameras, providing a perfect angle for drawing and displaying the enhancements accurately.

Using its simple graphic user interface, you can easily control all graphic parameters for any element, including line colors, intensity, height, width, logos, and textures. The system supports HD and SD productions, as well as static and animated graphics, enabling you to enhance the game in exciting new ways. And with the built-in chroma keyer, you can display graphics perfectly on any field—even in the most difficult lighting conditions.

	HDVG2
Motherboard	Intel Haswell platform
Graphics card	NVIDIA GeForce GTX 750
CPU	Intel 3.6 GHz Quad-Core i5
Operating system	32-bit Red Hat Linux with kernel 2.6
Memory	8 GB DDR3
Internal storage	500 GB system disk, 2 x 500 GB (option)
Ethernet	1 x 1000 BASE-T (RJ45)
Ports	2 USB (front), 2 USB (rear)
Control interfaces	2 x USB, HDMI, Ethernet (1Gbit)
Supported video standard	HD: SMPTE 260, SMPTE 295, SMPTE 274, SMPTE 296 SD: SMPTE 259 ITV-R BT.601
Video in (mixer)	1
Video output	2 SDI outputs (video key compositing configurable) Internal linear keyer Single channel
Video references	Bi/Tri level Sync
Audio	Embedded audio support
Clip options	QuickTime
Video bypass	Mechanical bypass for power failures (optional)
Dimensions	Height: 3.5 in (90 mm) Width: 17.4 in (443 mm) Depth: 24.3 in (617 mm) Weight: 33.1 lbs (15 kg) approximate
Power supply	Power supply: 100–240 V Frequency: 47–63 Hz 420W (max)

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