HARRIS®
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BROADCAST GRAPHICS

Inscriber® TitleOne™

Broadcast and Production Graphics

Inscriber® TitleOne™ is an entry-level broadcast and production graphics system offering high-impact HD/SD graphics at an affordable price. Featuring a complete suite of powerful, easy-to-use tools, TitleOne™ delivers sophisticated titles, stunning graphics and the best in digital effects — including rolls, crawls and transitions.

TitleOne™ is suited for any broadcast situation, providing a specific advantage to smaller market stations and non-traditional broadcasters such as:

- houses of worship
- stadiums
- colleges
- local governments
- corporations

TitleOne™ exceeds the expectations of a value-oriented graphics system and is the clear choice for sophisticated, professional titling.

TitleOne™ SD: Real-time SD live production graphics

TitleOne™ SD/HD: Real-time SD/HD-selectable live production graphics. A two-channel system that can output SD and HD simultaneously.

Features

Overlay™
Overlay™ allows you to build and control three additional layers of graphics on top of your current output without having to use additional channels. Objects output with Overlay™ remain on the topmost layer and operate without disruption. They're completely independent of other layouts, making them easy to control. You can easily insert and hide clocks, timers, still or animated logos, channel IDs, lower thirds, scoreboards, over-the-shoulder graphics, text crawls and temperature read-outs.

Unicode Support
Display multiple languages simultaneously within one graphic layout.

Options

Automation Interface™
Automation Interface™ allows you to connect TitleOne systems to newsroom computer systems using the industry-standard Intelligent Interface® protocol. It also enables tag filling and display control using a standard serial port protocol available from most news system vendors, including Harris®, AP®, Autocue®, Avid®, Compromter®, EZ News®, Florical®, Parkervision® and Sundance®.

Strata Compositing™
Strata Compositing™ enables real-time compositing of an unlimited number of independently controllable virtual channels into a single physical channel. Use it to output multiple graphic layers — a ticker, a station ID, a lower third and background video, for instance — as a single channel.

MOS Interface
No graphics experience required — Inscriber® MOS gives newsroom staff the ability to create and schedule template-based text and graphics from their desktops for playout across the entire on-air Inscriber graphics product line. Inscriber® MOS consists of a MOS-compliant ActiveX client control interface connected to Inscriber graphics systems, and enables remote asset browsing, editing, and playout capabilities within MOS-enabled Newsroom Computer Systems (NRCS) such as AP's ENPS® and Avid's iNews®. Real-time previews are generated for the journalists as they create their graphics to ensure the accuracy of each item being added to a story. Centralized control playout allows all changes to the NRCS playlist generated from the Inscriber graphics systems to be automatically updated across multiple channels.

RTXports™
RTXports™ provide a simple and convenient interface to dynamic data streams using the fully supported Inscriber® RTX™ API. This option makes it easy to integrate regulary updated information like sports scores, election returns, stock tickers and weather bulletins in layouts created with G-Scribe™ software.

Media Store
Store, manage, retrieve and play out media files including stills, templates, clips and animations. Media Store allows the user to search based on various metadata, including user-definable keywords. Media Store integrates directly with the playlist and the output display so graphics resources can be found and used either in CG pages or directly out to air.

Clip Playback
Enables integrated playout of clips as backgrounds, media objects and textures within your graphics layout. Play media content of any resolution up to full HD. Software codecs enable playout of most Windows® formats, including VIA, AVI, WMV, MPEG2, and Quicktime*.

Direct Control™
Use Inscriber® Direct Control™ to manage networked graphics across a LAN. Resources on a TitleOne system can be viewed and managed from any computer system on the LAN, allowing for editing, displaying and browsing graphics, playlists and rundowns.

ODBC
The ODBC (Open Database Connectivity) standard allows multiple programs to share information held within a database. The Inscriber® ODBC feature links the information in your database tables to your graphic layouts and templates. When you update the database entries, the information automatically updates in your layouts. Easily update graphics from an external source where no graphics experience is needed. This is ideal for sporting events, elections, school closings and more.

Paint
This paint and graphics creation plug-in possesses unlimited layering capabilities, as well as image processing and masking tools. Inscriber® Paint allows native PhotoShop® files (.psd) to be imported into and manipulated within the G-Scribe user environment — while maintaining layers.

Second Channel
A second channel can be purchased when ordering your system, or it can be field installed after the fact. A second channel allows you to output two simultaneous HD or SD outputs (depending on which type of system you have).

G-Scribe™ Offline
With G-Scribe™ Offline, a standalone software package, operators can compose layouts on any computer running Windows® XP and transfer their designs to an online graphics system for playout to air.

RapidFire™ Keyboard
Essential for live event coverage, the RapidFire™ keyboard is a dedicated custom keyboard that gives single-stroke functionality for many G-Scribe functions and features. It includes a US 101 Key Cap layout for use as a standard keyboard for normal PC operations.

*Note: Not all Quicktime codecs are suitable for real-time HD playback. Results may vary.

Specifications

HARDWARE

Chassis
- 3RU rackmount
- Front-mounted, hot-swappable drive bays (8)
- 2+1 redundant hot-swappable power supply - 760 W
- High CFM cooling for 24/7 operation
- HxWxD: 5.25"x19''x25.5'' (13.35 cm x 48.26 cm x 59.69 cm)
- Weight: 45 lbs (20.41 kg)

CPU
- 2x AMD Opteron 270 for TitleOne SD
- 2x AMD Opteron 280 for TitleOne HD/SD

GPU
- Dual-Head PNY NVIDIA® FX1500/256 for TitleOne SD
- Dual-Head NVIDIA® FX4600/512 for TitleOne HD/SD

RAM
- 2 GB DDR400 RAM for TitleOne SD
- 4 GB DDR400 RAM for TitleOne HD/SD

Disk Sub System
- 1 x 160 GB SATA system drive
- 2 x 160 GB SATA media drives for TitleOne SD
- 3 x 160 GB SATA media drives for TitleOne HD/SD
- Add'l 2 x 160 GB SATA drives for TitleOne SD clip option
- Add'l 4 x 160 GB SATA drives for TitleOne HD/SD clip option (clip option includes SATA controller with 8 SATA ports)

Removable Drives
- Recordable CD/DVD-RW drive for backup or system restore
- 1.44 MB floppy drive

External Ports
- Two Gigabit Ethernet ports via RJ45
- Two RS232 serial port via DB-9 connector
- Four USB 2.0 ports - back panel
- Two USB 2.0 ports - front panel

VIDEO

Supported Video Resolutions
Serial digital component 4:2:2 video @
- 1920 x 1080: /60i/59.94i/50i (SMPTE 274M)
- 1920 x 1080: /30p/29.97p/25p/24p/23.98p (SMPTE 274M)
- 1280 x 720: /60p/59.94p/50p (SMPTE 296M)
- 720 x 486 (525): /59.94i (ITU-R BT601)
- 720 x 576 (625): /50i (ITU-R BT601)

Video Inputs
- One serial digital (SD/HD) Program/Frame Grab input: 4:2:2 SMPTE 259M and SMPTE 292M, 8/10 bit SDI (270 Mb/s @ 525/625 and1.485 Gb/s for HD)
- One serial digital (SD/HD) Key Input: 4:2:2 SMPTE 259M and SMPTE 292M, 8/10 bit SDI (270 Mb/s @ 525/625 and 1.485 Gb/s for HD)
- One analog reference input: tri-level sync (HD) or blackburst (SD) (terminated/non-terminated under jumper control)

Input Levels SDI
- SDI: 800 mv P-P
- Analog Ref: 1 V P-P blackburst or 0.6 V P-P for tri-level sync

Input Impedance
- 75 ohms

Video Output
- One serial digital (SD/HD) Program/Fill output: 4:2:2 SMPTE 259M and SMPTE 292M, 8/10 bit SDI (270 Mb/s @ 525/625 and 1.485 Gb/s for HD
- One serial digital (SD/HD) Key output: 4:2:2 SMPTE 259M and SMPTE 292M, 8/10 bit SDI (270 Mb/s @ 525/625 and 1.485 Gb/s for HD)

Output Levels
- SDI: 800 mv P-P

Output Impedance
- 75 ohms

Audio Specifications
- Two input / two output AES/EBU audio channels through the unbalanced/BNC connectors on the separate PC I/O paddle board
- On-board audio mixer
- 3.5 mm stereo jack on faceplate for analog audio monitoring

Additional Features
- All internal video processing at 12-bits component 4:2:2:4
- Video and audio bypass on HD/SDI program input-to-output in the event of a power fail or application reset
- Shaped or unshaped fill signal processing
- Internal watchdog timer to ensure hardware stability
- Monitoring and signal status LEDs
- GPIO: 24 port (10 outputs/14 inputs)

Timecode
- SMPTE timecode reader
- BNC connector on the audio paddle board

For more information please visit **www.broadcast.harris.com**

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