HD9725 & HD9725LGA

HD/SD Logo Inserter and Media Keyer

The HD9725LG Logo Inserter system is a complete HD/SD Logo Insertion package that will key one, or many, static/animated "bugs" over an HD or SD video signal. Logos created in BMP, Tiff, TGA or Wave file formats can be imported into the Evertz® ***overture*** software and transferred to the HD9725LG via Ethernet. Logos are stored in flash memory and can be quickly accessed via front panel, quick select keys, GPI inputs, automation and ***overture***. With the removable Compact Flash option you can have access of up to 8 Gigabytes of on-line logo storage space and virtually unlimited archived media storage.

The HD9725LGA Media Inserter system is a complete Logo and Audio insertion package that will key one, or many, static/animated "bugs" over a HD or SD video signal. It will also duck program audio, insert preformatted audio clips (WAV files), and voiceovers.

The HD9725LGA has been designed to manage and store multiple logos. The size of each logo is variable and ranges from 1/25th to full screen. The position of the logo, fade rates, clip association and animation rates are user-controllable. Up to 16 logos can be keyed simultaneously with independent fade control for each logo.

The onboard preview allows you to cue your logos for position and content verification prior to going "On Air". The Media Inserter Voice Over audio input allows for 1 button audio switching.

The EAS crawl support allows for connection to an existing EAS decoder. This RS232 connection allows weekly tests (white text on green), watch alerts (white on yellow) and warnings (white on red) to be scrolled across the video with no need for format conversion. The variable height text font can be positioned anywhere on the screen and rendered with any True Type font. A GPI can be used to insert the EAS audio on the HD9725LGA.

The HTXT option allows for the creation of custom text messages that can be displayed as crawls or fixed position fields on top of keyed graphic logos. These user-defined elements can be dynamically updated by Ethernet using the ***overture*** software. Text crawls and fields retain display information such as background/foreground transparency, color, position and font while the dynamic text may be changed without re-creating the associated logo graphics.

Up to 16 logos can be keyed simultaneously with independent fade control for each logo

Logo position, fade rates, clip association and animation rates are user-controllable

EAS crawl support allows for weekly tests, watch alerts, and warnings to be scrolled across the video with no need for format conversion

Features & Benefits

- Stores and inserts static and animated logos or media clips
- Multiple simultaneous logos can be keyed directly onto the HD or SD video signal
- Multi-layer keying
- Supports 1080i, 720p, 1035i, 1080psF, 480p, 525, and 625 formats
- Full 12 bit linear video keyer with logo fade-in and fade-out processing
- Independent control of logo position, transparency and offset
- Independent control of fade in and fade out of static logos
- Input bypass relays for power failure protection
- Automatic equalization up to 100m @ 1.5Gb/s (Belden 1694A or equivalent)
- Program and Preview outputs
- Reference to input video or colour black
- Gigabit Ethernet interface
- LTC input for analog or digital “Breakfast clocks"
- Manage logos from a standard PC using Ethernet and ***overture*** software
- Standard 256MB compact flash storage with 512MB playout cache
- Optional +HTXT feature to support crawls and text teasers/snipes
- Optional 2GB, 4GB or 8GB internal compact flash storage
- Optional additional removable flash memory of 2GB, 4GB or 8GB
- Option to increase playout cache to 2GB, 4GB or 8GB DRAM
- Download logos and audio clips from a standard PC using ethernet using Evertz® ***overture*** software (included)

HD9725LGA Additional Features

- Eight AES pair inputs and eight AES pair outputs
- Full 4 pair audio voice over mixing for Dolby 5.1 audio
- Includes embedded audio mixing with 4 AES pair de-embedding and re-embedding for voice over and clip inserts
- Audio bypass mode for passing Dolby E

EAS Option Features

- Emergency alert crawls
- Interfaces to TFT and Sage EAS decoders

Specifications

Serial Digital Video Input:
Standard: SMPTE 292M, 1.485Gb/s
SMPTE 259M-C, 270Mb/s
Number of Inputs: 1
Connector: BNC per IEC 60169-8 Amendment 2.
Equalization: Automatic to 100m @ 1.5Gb/s with Belden 1694 or equivalent cable
Return Loss: > 15dB up to 1.5Mb/s

Serial Digital Video Outputs:
Standard: Same as input
Number of Outputs: 2 Program, 1 preview
Connectors: BNC per IEC 60169-8 Amendment 2
Signal Level: 800mV nominal
DC Offset: 0V ±0.5V
Rise and Fall Time: 200ps nominal
Overshoot: < 10% of amplitude
Wide Band Jitter: < 0.2 UI

Video Reference:
Source: Menu Selectable from Input Video or Reference Input
Type: Auto Detect depends on video format NTSC or PAL Colour Black 1V p-p
Connector: BNC per IEC 60169-8 Amendment 2
Termination: 75Ω

AES Audio Inputs (HD9725LGA only):
Standards: SMPTE 276M single ended AES
Number of Inputs: 4 Program, 4 Alternative
Connector: BNC per IEC 60169-8 Amendment 2
Sampling Rate: 48kHz
Signal Level: 1V p-p ±10%

AES Audio Outputs (HD9725LGA only):
Standards: SMPTE 276M single ended AES
Number of Outputs: 4 Program, 4 preview
Background and voice over source assignable for each channel
Connector: BNC per IEC 60169-8 Amendment 2
Sampling Rate: 48kHz
Signal Level: 1V p-p
Reference: From Video Reference

Embedded Audio (HD9725LGA only):
Standard: SMPTE 299M
De-embedder: Groups 1 to 2 of embedded audio in video input
Embedder: Program audio embedded to groups 1 and 2 on program video outputs
Preview audio embedded to groups 1 and 2 on preview video output

LTC Reader:
Standard: SMPTE 12M
Frame Rate: 25 and 30 Fps nominal
Connectors: 3-pin female XLR type connector
Level: 0.2 to 4V p-p, balanced or unbalanced

Control:
Upgrade 232 Port: 9-pin female "D", RS-232 57600 baud, 8 bits, no parity firmware upgrade
Remote Panel Port: 9-pin female "D", RS-422 9600 baud, 8 bits, no parity
Remote control panel interface (only available on RCP or DCP versions)
Serial Control Port (3; additional 4 optional):
9-pin female "D", RS-232/422 8 bits, no parity, baud rate depends on protocol
Selectable protocols: Automation, EAS Interface, temperature probe interface
Media Transfers: RJ-45 1000Base T Ethernet, TCP/IP

General Purpose Inputs and Outputs:
Number of Inputs: 16 (standard) additional 16 (optional)
Number of Outputs: 8 (standard); additional 8 (optional)
Type: Opto-isolated, active low
Connector: Terminal block on breakout panel

Physical:
Dimensions:
Electronics: 19" W x 1.75" H x 18.75" D.
(483mm W x 45mm H x 477mm D)
Rack Mount Control Panel:
19" W x 1.75" H x 4.25" D.
(483mm W x 45mm H x 110mm D)
Desktop Control Panel:
7.75" W x 2.0" H x 6.5" D.
(197mm W x 50mm H x 160mm D)

Electrical:
Power:
Electronics: Autoranging 100-240V AC 50/60Hz, 60V A
Optional Remote Control Panel:
12V DC 9W
Autoranging 100-240V AC 50/60Hz power adapter provided
Safety: ETL listed
Complies with EU safety directive
EMI/RFI: Complies with FCC Part 15 Class A, EU EMC Directive

Ordering Information

HD9725LG HD/SD Media Inserter System
HD9725LGA HD/SD Media Keyer with front panel control/Slate Generator and Audio with Audio Support

Ordering Options
+DCP Optional Desktop remote control panel (replaces front panel control)
+RCP Optional Rack mount remote control panel (replaces front panel control)
+2PS Optional Redundant power supply
+CF Optional Front Panel Compact Flash Drive (does not include compact flash memory card)
+HTXT Optional Textting features (includes crawls and text teasers)
+TP Optional Air temperature probe
+E Optional EAS crawl insertion (North America only)
+PC2G Optional Internal Playout Memory expansion to 2GB DRAM
+PC4G Optional Internal Playout Memory expansion to 4GB DRAM
+PC8G Optional Internal Playout Memory expansion to 8GB DRAM
+IF2G Optional Internal Compact Flash memory expansion to 2GB
+IF4G Optional Internal Compact Flash memory expansion to 4GB
+MEM2G Optional Memory Upgrade Kit to 2GB (includes +PC2G, +IF2G, and +CF2G)
+MEM4G Optional Memory Upgrade Kit to 4GB (includes +PC4G, +IF4G, and +CF4G)

Accessories
+CF2G Optional External Compact Flash Expansion to 2GB (includes front panel compact flash drive)
+CF4G Optional External Compact Flash Expansion to 4GB (includes front panel compact flash drive)
+CF8G Optional External Compact Flash Expansion to 8GB (includes front panel compact flash drive)
9700BHP-AUX Optional second breakout bulkhead panel for additional GPI/O serial communication ports