

VISIONARY

HD/SD-SDI Overlay System

- Supports 1080i, 1080p, 720p, and 525 SDI Video Formats
- Linear Video Keyer with Support for Fades
- Eight Channels of Embedded Audio and Six Channels of AES-EBU Audio
- Ethernet and GPI/O for Master Control and Management



The Visionary™ HD/SD-SDI digital overlay system offers broadcast DTV stations an integrated and efficient way to provide digital video and audio EAS (Emergency Alert System) overlay messages to viewers on a per-screen basis.

Centralized EAS Management

Integrated with a single Trilithic EASyCAST™ EAS system, a user can distribute EAS messages and manage and control up to eight Visionaries located at master control or remote transmitters, wherever SDI video is available. This allows broadcast engineers to deliver EAS messages to multiple channels and streams from a central location.

Target EAS Messages

The EASyCAST system communicates via Ethernet with multiple Visionary units to distribute EAS messages to the appropriate video stream by analyzing the received EAS FIPS codes and targeting the appropriate Visionary's IP address. This provides a powerful means to selectively target the delivery of EAS messages to some or all video streams.

By placing a Visionary on each video stream, targeting specific transmitters covering different DMAs is possible. DTV stations can now provide digital EAS messages, graphics, audio, tests, and alerts on all digital program streams in real-time.

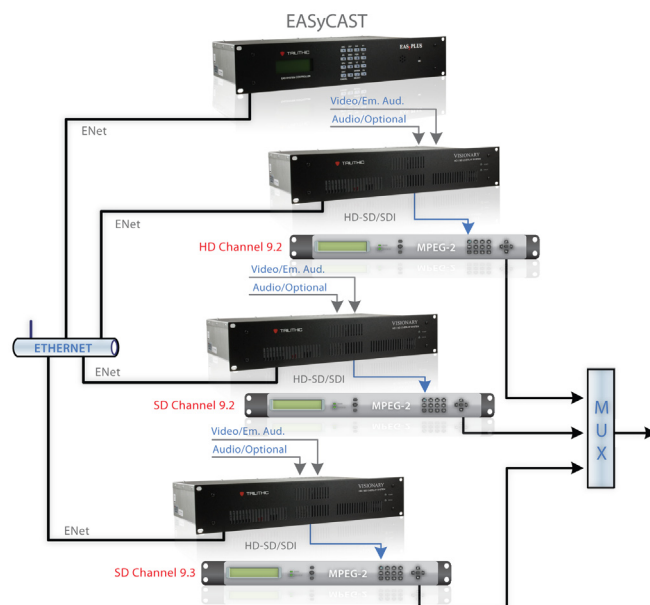
Message Management

With general purpose inputs/outputs, the Visionary allows master control and automation the ability to hold-off EAS insertions during commercial breaks and other important programming, independently, on a per-Visionary basis. The Visionary will hold messages in queue until master control authorizes the trigger, via the general purpose input or via EAS Console™, an IP-based master control software interface. The Visionary also features input bypass relays as a fail-safe against power loss. Streaming audio is provided via Ethernet, eliminating the need for the graphics/EAS insertions to be co-located within master control.

Robust Graphics Capabilities

In addition to the built-in EAS functionality, the Visionary supports non-EAS crawl messaging, station logos, crawls (supported by OEM-API), and many other character generation and video overlay functions. Static text, text crawls, and graphics can be displayed on the screen in 32-bit color with transparency. True-type fonts are also supported.

The Visionary can accept a contact-closure locally, or via satellite, allowing logo or graphics insertions. This allows a centralized studio to link special graphical inserts on-demand.



SPECIFICATIONS

SD OVERLAY SYSTEM (P/N 2011186001); HD/SD OVERLAY SYSTEM P/N 2011186002

Serial Digital Video	<p>SMPTE 259M, SMPTE 274M, SMPTE 296M Gen-lock to video input 75 Ω BNC connectors Video bypass relay for fail-safe operation</p>
Audio	<p>6 channels of AES-EBU audio inputs, unbalanced, three 75 Ω BNC connectors 6 channels of AES-EBU audio outputs, unbalanced, three 75 Ω BNC connectors 8 channels of embedded audio Balanced stereo analog audio switch Analog-to-digital converter for analog to AES-EBU and embedded audio Audio file storage and playback, inserted onto AES-EBU and embedded audio channels Insert EAS or alternate audio onto program audio streams (AES-EBU and embedded audio)</p>
Character/Graphics Generator	<p>32-bit color with alpha channel True-type fonts supported Linear key to overlay characters and graphics over the video stream; supports transparency and fades Static text can be positioned anywhere on the screen Crawl message length up to 4000 characters Text properties include position, font, size, color, background color, transparency, speed, and repeats Images can be positioned on the screen; transparency supported All graphic objects (text, boxes, images) can be faded on and off the screen Message queue handles multiple messages</p>
Command and Control	<p>10/100/1000 Base-T Ethernet on an RJ-45 connector RS-232 port on a DB-9 connector 4 general purpose inputs, opto-isolated, active low, provided on modular screw terminals 4 general purpose outputs, contact-closures, provided on modular screw terminals</p>
Satellite Remote Control	<p>Contact closure for on-demand remote logo and graphics insertions</p>
Mechanical	<p>2U, 19" rack-mount chassis</p>