

MVP®

Multi-Image Display & Monitoring System



The MVP® revolutionizes the multi-display marketplace with a highly flexible, intuitive and simple yet comprehensive approach to virtual wall monitor applications. The possibility of displaying any input signal to any output monitor can now be realized without the need for DAs or upstream monitor routers.



Features & Benefits

- Highest quality video images - single pass processing
- Hardware based - no PC on board, no hard-drive
- RTOS - Real-Time Operating System
- Not a frame limited architecture - PLink™ interconnects and Ethernet control; does not exhibit PCI bandwidth limitations
- Expandable - frame not limited to a maximum number of inputs per system - cumulative bandwidth
- True hot-swappable, front-access input, output modules and PSU
- Fast power cycle recovery (15 seconds)
- Redundancy options for mission critical operations
- Fiber output option - single fiber (single or Multi-Mode) up to 10km support
- HD/SD serial output option
- "Out of the box" implementation - set-up is quick and easy
- 9:16 output aspect ratio support (WARP™)
- Flexible - usually 2-3 solutions from the same system with options for future growth
- User-friendly GUI - drag & drop control, fast preset recall and off-line development; real time display layout control
- Consolidated - scaling, signal sniffing (fault monitoring), routing and fan-out of inputs
- Supports many output display destinations
- Eliminates the need for a preview/monitor router to support multiple inputs to multiple displays
- Show multiple copies of the same BNC input across displays
- Monitor everything - View by Exception with VistaLINK® and display video inputs only when faults are detected through built-in signal monitoring
- On-screen time of day clocks (analog and digital with external LTC reference and configurable offsets) and date display
- Up & down timers
- User-definable labels
- Dynamic UMDs & tally from routers and switchers
- Safe area markers
- Graphics logos and background

Applications

- Broadcast Facility Master Control
- Satellite Uplink/Downlink
- Cable Head End & IPTV Head End
- Production
- OB Vans
- Video Walls
- NOC Control Rooms
- Surveillance Security Information Displays
- Traffic & Transportation Applications
- Gaming & Entertainment

Signal Monitoring

Seeing is believing, but with so many video, audio and data details to look for, it's nice to know that user-configurable faults are detected and displayed by the MVP® and can be further reported to and recorded by VistaLINK® PRO. Along with VistaLINK®, Evertz® provides the most comprehensive signal monitoring and image display solution.

Status Monitoring & Fault Trigger Parameters

- Loss of video
- Active picture levels
- EDH errors
- Frozen or black video
- Motion detection
- Video format detection
- Loss of audio channels
- Mono audio detection
- Phase reversal
- Audio too loud or too quiet
- Loss of closed captioning
- Loss of closed cap waveform
- Loss of program rating
- Source ID missing
- VITC missing
- Macro block detection (hardware specific)
- Loss of Nielsen data
- Loudness

The Complete Solution Provider



Specifications

Auto-detecting Video Inputs:

Analog Video:
• NTSC/PAL

Digital Video:

- SD-SDI (SMPTE ST 259-1)
- HD-SDI (SMPTE ST 292-1, 1.5Gb/s)
- 3Gb/s (SMPTE ST 424)
- Built-in embedded audio extraction (up to 2 groups)
- HDMI (with HDCP)

HD Formats:

- 1080i/60
- 1080i/50
- 1080p/50
- 1080p/23.98sF
- 480p/59.94
- 480p/60
- 1080i/59.94
- 1080p/60
- 720p/60
- 1080p/24sF
- 720p/59.94

3G Formats:

- 1080p/60
- 1080p/50
- 1080p/59.94

Output Resolutions Supported

- XGA (1024x768)
- SXGA (1280x1024)
- WARP 2 (768x1366)
- 480p (720x480)
- UXGA (1600x1200)
- WXGA 2 (1366x768)
- WUXGA (1920x1200)
- WARP (768x1280)
- 720p (1280x720)
- SXGA+ (1400x1050)
- WXGA (1280x768)
- 576p (720x576)
- HD (1920x1080)

Decode

- XDS
- HD & SD VITC/Source ID
- WSS/AFD adjust/display
- Detect Encoded Audio (AC3/Dolby® E)
- EIA-608 - SD Captions
- EIA-708 - HD Captions
- WST - World Standard Teletext
- Source standard
- Decode/Display Dolby® E Metadata
- Monitor Dolby E Levels
- Nielsen Display (AMOL/NAES)

- OP47
- Decode/Display Dolby® E Audio Data (OV-3G-8DEM)
- SCTE104 monitoring
- Subtitles

IP (MPEG-2, H.264):

- MPEG-2 TS UDP/RTP
- RTMP (Flash)
- MMSH (multicast or unicast)
- HTTP
- MMST
- MPEG-2 TS over TCP
- HLS (Apple)
- VNC

Multi-Input Format Display and Monitoring:

- Auto-sensing HD/SD/Analog video input on the same BNC
- DVI/RGB
- 525i/625i
- 720p/50
- IP/ASI (MPEG-2, H.264)

Head-End Monitoring:

- Perfect solution for all head-end facilities, including IPTV, CABLE and SAT
- Monitor everything, view by exception
- Integrated signal monitoring
- 100% SNMP reporting and configuration

Computer Graphic Video Inputs:

- Two or four input module
- From 640x480 (VGA) to 1600x1200 (WUXGA) resolution
- DVI or 15-pin D-sub via adapter

Audio:

- Balanced/unbalanced AES
- Balanced analog stereo
- On-screen display of level and phase bars
- Audio monitoring output, 2 groups (AES/EBU)

Frame:

- 6RU, 15-module agnostic slots
- Rack mountable
- Front access
- Dual redundant PSU, hot-swappable

AUX Inputs & Outputs:

- Up to 64 GPI inputs and 44 GPO outputs
- LTC for clock/timer reference
- RS-232/422 serial interface

Configuration Control:

- Maestro™ graphic interface for design and control
- DCP desktop control panel via Ethernet
- MAGNUM VUE
- CP-2116E & CP-2232E

Electrical:

- Dual redundant power supplies with separate AC inlets
- Auto-ranging voltage, 100-240V AC, 50/60Hz
- Maximum power dissipation: 625W
- Typical power dissipation: 350W, 8A

Genlock:

- Separate NTSC (SMPTE ST 170-1) and PAL (ITU624-4), color black via BNC

Front Panel Indicators:

- PSU status LED and local error/failure LED

Tally Output (GROC):

- 4-pin terminal, relay N/O, N/C for status/fault alarm

Video Outputs:

- Single, dual and multiple output support for XGA up to HD resolution
- DVI-I connector, BNC and/or fiber interfaces (model dependent)



Ordering Information

Contact your Evertz Sales Representative for more information

With the MVP® there are many different possible I/O combinations including dual, quad and octo-output display solutions along with redundancy to meet your multi-signal monitoring & display needs.

Accessories

- 3000MVP-HDMI8-AC3** HDMI with HDCP decryption and AC3 decoding monitoring input solution for the MVP® System
- 3000MVP-GI** Dual (2) or Quad (4) computer video inputs per input module
- 3000MVP-AI** Monitor up to 4 analog pairs or 4 AES/EBU audio channels per video input
- 3000BHP-U** 1RU breakout bulkhead panel to support unbalanced AES/EBU digital audio
- 3000BHP-BAL** 2RU breakout bulkhead panel to support either balanced stereo analog inputs or balanced AES/EBU audio

3000BHP-AUX

Breakout bulkhead panel for GPI/O, LTC input, and serial communications

7700PTX-MVP

Protocol Translator: Connect multiple serial input devices to the MVP®

3000MKT-AUX 2430GDAC 2430GDAC-WARP 3000DCP

Rackmount panel for AUX breakout board
GLink™ to DVI converter
GLink™ to DVI converter, with 90° display rotation support
Allows you to change your display's presets from a selection of possibilities

CP-2232E

2430RX-2

VUE

Advanced System Control Panel
Dual Path Serial Digital to DVI Converter
Customizable Graphical User Interface used to control broadcast operations