

The System's primary function shall be to facilitate Audio and Video Distribution over a standard 1 GbE or higher network. System includes support for Real-Time 4K and HDR content transmission.

System shall be capable of being supplied as factory configured to consultant/architect's specification for video, audio and IP settings.

System end-to-end latency shall be capable of 1 frame of latency at 60 fps (including encoding and decoding).

The System shall be capable of supporting an unlimited number of endpoints.

The MV4 is a single unit integrated 4K four channel decoder, multi-window processor, and encoder.

The MV4 shall enable the display of up to four (4) IP video sources simultaneously on a single display up to 4K.

The MV4 shall support fully automatic basic operation without a control system.

The MV4 shall support front panel control.

The MV4 shall support browser control.

The MV4 shall support OSD (on screen display) menus for control.

The MV4 OSD menus shall support: MV4 Menu, Image Quality Adjust, Image Channel Setup, Channel X Image Setup, Channel X Size Adjust, Channel X Position Adjust, Image Convert.

The MV4 graphical user interface and built-in dashboard functions shall not require custom or project specific programming or API development.

The MV4 shall be capable of receiving control from a variety of third-party manufacturers, example supported systems include (among others) Crestron, Extron, AMX, RTI, QSC and Symetrix.

MV4 shall support integration with enterprise grade software management platforms to provide complete system monitoring, management, and control.

System shall be capable of presenting live thumbnail previews to 3rd party control UI, for all content on encoders and MV4, in JPEG snapshot format, updated once per second.

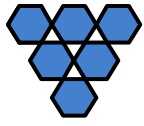
The System shall support integration with enterprise grade software management platforms to provide complete system monitoring, management, and control.

System shall be able to be controlled using ASCII-readable HTTP(S) GET/POST, UDP Unicast, or UDP Multicast API.

System shall provide SSH security capability.

System shall provide 802.1X security capability.

System shall provide AES stream decryption capability.



MV4 • IP MULTIVIEWER

A&E SPECIFICATIONS

System shall support JPEG2000 based codec with optimization for computer-generated content as well as support for fast-motion, cinema-grade content.

System shall be TAA compliant.

The MV4 shall not require proprietary network management software or hardware.

The MV4 shall not require proprietary or manufacturer specific Ethernet switches.

The system shall support the following digital audio formats: Dolby Digital®, Dolby Digital EX, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS®, DTS-ES, DTS 96/24, DTS-HD High Res, DTS-HD Master Audio, DTS:X, LPCM up to 8 channels.

The MV4 shall support multiple windowing modes.

The MV4 shall support Multi-Window.

The MV4 shall support Picture in Picture.

The MV4 shall support Text and Image Overlay.

The MV4 shall support custom text overlay for each window.

The MV4 shall support custom text overlay at any screen location.

The MV4 shall support custom photo or logo at any screen location.

The MV4 shall support input resolutions: 480P - 4K30

The MV4 shall support output resolution: 1080P & 4K30

MV4 shall support HDMI 2.0.

MV4 shall support HDCP (High-bandwidth digital copy protection) for versions 1.x and 2.2.

MV4 units shall provide integrated scaling with no additional latency.

Switching transition between encoder streams shall not be greater than 1 second.

Switching between sources of the same framerate shall transition cleanly.

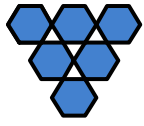
The MV4 shall support HD digital video output: One (1) 19-pin Type A HDMI female connector.

The MV4 shall include one (1) Ethernet port for encoder and control functionality.

The MV4 shall include four (4) Ethernet ports for decoder functionality.

Each Ethernet port shall include LED indicators for power (PWR) and Link.

The MV4 shall include a physical hardware Reset switch, accessible on the rear of unit.



MV4 • IP MULTIVIEWER

A&E SPECIFICATIONS

The MV4 shall include a physical power (ON) switch, accessible on the rear of unit.

The Maximum bandwidth requirement per decoder AV stream shall be 1 Gigabit.

The MV4 shall enable the display of up to four video sources simultaneously on a display up to 4K.

The IP Multiviewer shall be the Visionary MV4.