

The MV-16 is one of Snell's high quality, innovative multiviewer products designed for the serious broadcaster and AV user. Scaled for the smaller installation this high resolution, multi-format device provides considerable flexibility having full audio support, browser configuration and control, together with sophisticated alarms reporting.

MV-16 Multiviewer

Compact Fully Featured Multiviewer



Features

- Up to 16 video inputs, composite, SDI, HD-SDI, 2 x DVI-I (up to 3G 1080p): the perfect solution for compact monitoring in smaller OB vans, editing suites, master control or digital playout facilities.
- Fully customizable display tiles on a chosen background, graphical or plain color.
- DVI-I output to 1080p60 (1920x1080) in 16:9, for use with the highest quality LCD displays.
- Up to 256 channels of embedded audio may be displayed as industry standard bargraphs with a choice of scales/ballistics and a Loudness display option.
- Analog audio monitor output, 4 pairs of audio derived from any source.
- Streamed audio monitor output on the LAN, up to 4 pairs of audio derived from any source.
- Up to 32 channels of external audio, analog or digital (AES/EBU) may be displayed with optional card.
- Up to 32 channels of embedded audio may be demuxed to analog or AES/EBU with optional card.
- Alarms for video, audio and metadata with outputs to tallies, GPI/Os, LAN and SNMP traps, allowing connection of the MV-16 external monitoring systems.
- UnderMonitor Displays (UMDs) via keyboard, LAN or serial cable supporting TSL and other protocols.
- Clock display receiving time information via NTP network protocol or LTC.
- Genlocked inputs for flicker-free and full frame operation.
- Teletext (analog), subtitles, AFD, WSS, VITC decoding & monitoring.
- 1RU compact design, ideal for OB vans and other space restricted installations.
- Front key panel with 10 x screen layout pre-set buttons.
- Comprehensive user-friendly set-up via system menu/browser software.
- Dual internal load sharing power supplies.
- All audio/video input/output cards are hot-swappable.

Specification

Inputs

Video

Up to 16 auto-sense (composite/SDI/HD-SDI) video inputs (4 inputs per video input card.

Using the VIP2 card any mix of:

- HD-SDI, SMPTE 292M (up to 1080p)
- SDI, SMPTE 259M
- Two DVI-I digital or analog component (up to 1080p, 3Gbps)
- Composite video PAL/NTSC, CVBS 1 Vpp
- S-video (Y/C)
- Component video RGB/YUV some connector related limitations apply.

Using the VIP 1 card, as above less HD-SDI

Internal audio inputs

Embedded audio, up to 16 channels per video feed, 256 channels total

External audio (option)

Analog, up to 32 channels (16 pairs)
AES/EBU, up to 32 channels (16 pairs)

Outputs

One DVI-1 output supporting resolutions up to 1080p60 (1920 x 1080, 16:9)

Compatible with displays handling XGA TG, XGA, 720P60, 720P50, SXGA, SXGA+, 1080P50, 1080P60.

Video sources fully scalable and displayed in native format, 4:3 or 16:9

DVI output formats:

800x600 @ 60Hz
1024x768 @ 60Hz
1280x1024 @ 60Hz
1280x768 @ 60Hz
1600x1200 @ 60Hz
1920x1080 @ 60Hz

Audio monitoring output, up to 8 analog output channels as a standard feature

Audio bargraphs may superimposed on the video, placed outside of the video or displayed in a dedicated tile.

Audio metering

standards:

AES/EBU, BBC PPM, DIN PPM, Nordic PPM, VU and Extended VU
Loudness metering is available as an option

Alarms

On video inputs:

- Video sync loss
- Black
- Freeze-frame

On metadata inputs:

- VITC loss
- Teletext loss
- Sub-titles loss
- V-chip loss

On audio inputs:

- Embedded audio loss
- External audio loss
- Over level
- Out of phase

With outputs to:

- Tallies
- Borders
- GPI/Os
- LAN
- SNMP traps

Other features

UMD via keyboard (USB connector on front panel)
LAN via browser
RS232/422 supporting TSL, Image Video or other protocols.
Clock inputs via NTP or LTC.
Up to four Bitmap files can be uploaded and may be displayed simultaneously
GPI/O with 16 inputs, 8 outputs

Hardware

1RU compact design
Control and configuration using browser software via the LAN
Video input card VIP2: accepts composite, HD-SDI, SDI, DVI-I, S-Video, YUV/RGB video formats.
Input card VIP 1 accepts the same excluding HD-SDI.
Audio input or output card consumes 1 slot.
Input and output cards are hot-swappable.
Dual PSUs provide load-sharing and backup.
Power supply and fan failure LED indicators on front panel.

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Rear panel view.