

The MV-Series has been designed to provide a flexible and cost effective solution for combining and displaying multiple images on a single or dual video display and has been optimized for use in control room, studio and OB environments.

Available in 64 input (MV-64) or dual 32 input (MV-32D) versions, the MV-Series features a wide range of easy to configure options including, tile content, size, labels and positioning and may be adjusted along with the background to suit any application.

The system also allows clocks, timers, timecode readers, UMD's tallies and event indicators to be displayed as required. All parameters can be adjusted quickly, and users can recall or even schedule preset configurations for instant access to the desired multiviewer layout.

## Multiviewers

MV-32 - Dual 32 Channel

MV-64 - 64 Channel



### More than cost effective

In addition to delivering the expected savings in power consumption, space utilization and staff deployment, the MV-Series offers a whole range of additional capabilities and benefits including:-

### Video versatility

The MV-Series accepts up to 64 video inputs in a wide range of analog and SD & HD digital formats including 1080p to cater for all of your video source requirements.

### Frame rate flexibility

To support the video format capability, the MV-Series can display 50Hz and 60Hz frame rates at the same time.

### Versatile viewing

Each controller/output card in the MV has two outputs, allowing flexible layout of the inputs across either screen, or for a layout to be duplicated for display in two different areas.

### Audio Advantage

Comprehensive audio monitoring allows for up to 16 channels to be displayed per tile, superimposed as bargraphs on or outside of the video image. Audio sources supported include embedded, external analog, AES/EBU and DolbyAC3.

### Ease of use

The intuitive interface enables all parameters to be quickly and easily adjusted, or pre-set configurations to be recalled or played out as scheduled events.

### Powerful integration

The real power of the MV-Series is realized when integrated with the Sirius 800 router range or Snell's Centra control and monitoring system.

Using the Sirius 800's dedicated multiviewer outputs enables up to 576 input signals to be monitored on any MV screen without sacrificing any router capability. In addition MCM provides status information for other Snell products as well as 3rd party devices.

Status information and alarms from the MV's input signals are available for display on Centra screens or can be used to trigger actions based on the status using the Centra 'rules engine'. This allows actions to be triggered based on a set of user configurable rules - for example loss of audio could automatically trigger a switch to a redundant feed and call upon full screen of the failed signal showing detailed status.

**Applications**

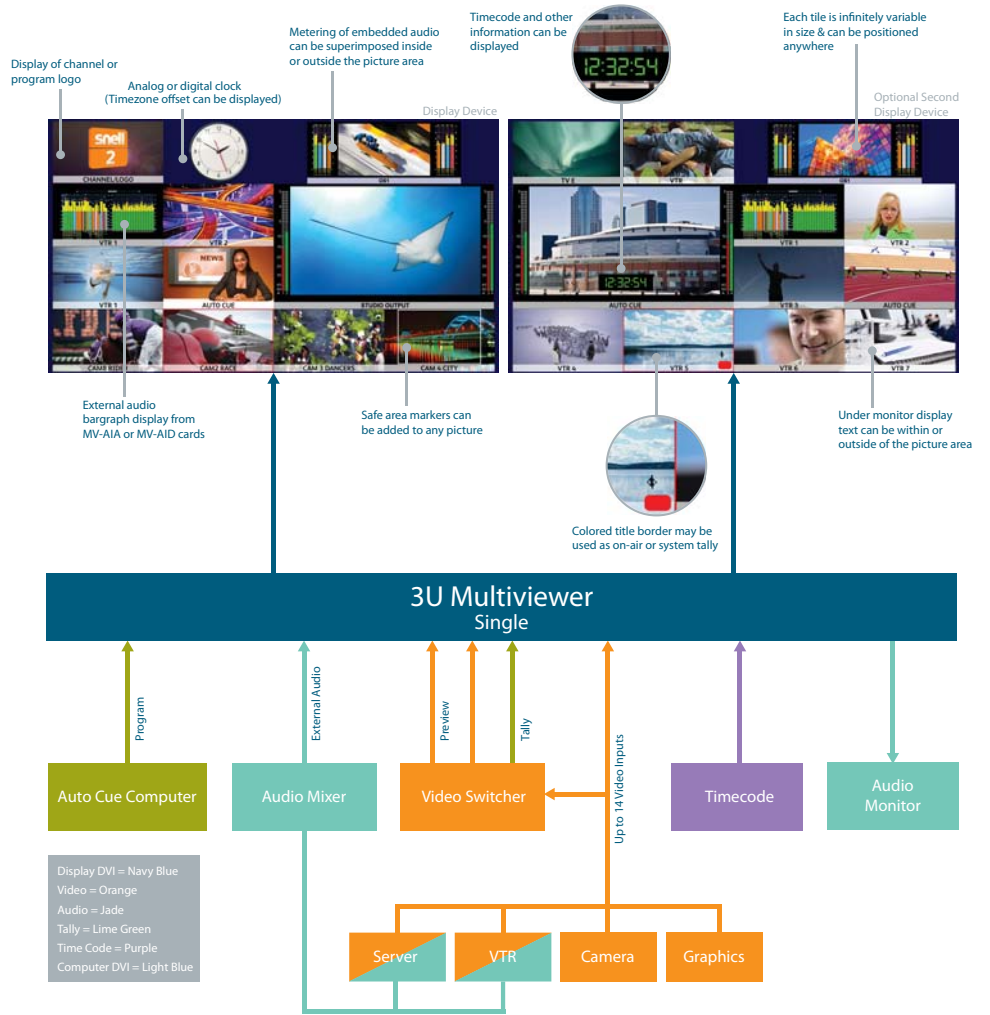
The MV-Series is ideal for use in . . .  
 Transmission control rooms - studio galleries - OB vans - audio control rooms - post production suites.

In fact any application that benefits from a single or multi-point display reference.

In addition to allowing high quality video images to be viewed the MV-Series will also . . .

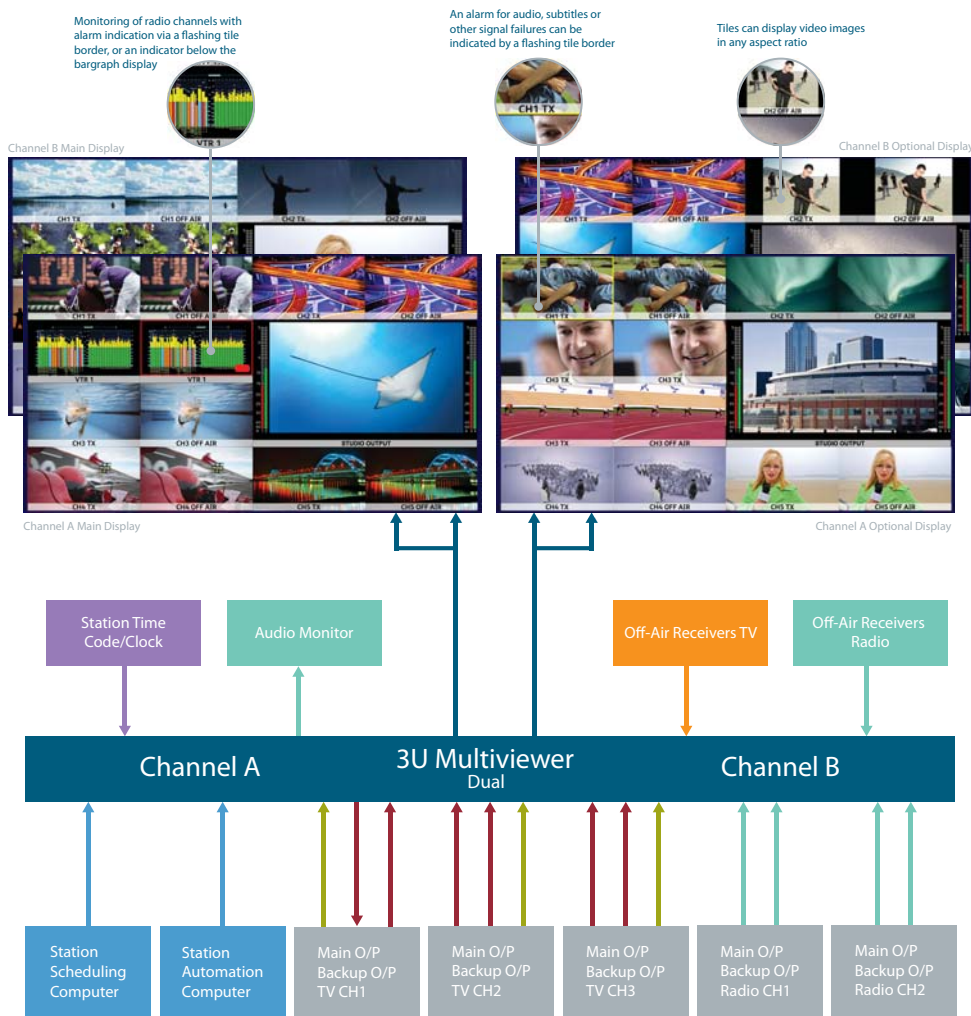
- generate safe area marker
- generate real-time clocks or timers
- read and display time-code
- read and display analogue teletext for closed captioning
- read and use WSS (wide screen signalling for aspect ratio control)
- store and display bitmap graphics/images
- generate audio bargraphs together with phase indication
- generate alarm indicators

**Studio/OB Van**



An example of the MV-64 (64 inputs, 2 DVI outputs) in use.

## Television & Radio Master Control (Transmission)



An example of the MV-32D (Dual 32 inputs and up to 4 DVI outputs).

### Options

#### MV-Power

Is an external backup power unit in a 1RU frame and provides power to the MV-Series in the event of an internal power supply failure. It also supports hot swapping of faulty power modules.

#### MV-Remote

This 1RU remote control device can be connected via LAN or RS-422 and gives users the ability to store and instantly recall presets as well as identifying power and fan status.



## Support

Snell provides a host of world class customer services that take our clients from the inception of a project, through all of the key stages to successfully get on air, and throughout the system's working life.

Services include:

- Workflow Analysis
- Systems Architecture
- Implementation
- Operational Training
- On-going Support

For more information, please contact us at [snellgroup.com](http://snellgroup.com)

Company policy is one of continuous product improvement. Specifications are therefore provisional and subject to change without notice. All other trademarks mentioned herein are duly acknowledged.

## Specification

<b>MV-64</b>	One multi-viewer with up to 64 video inputs
<b>MV-32D</b>	Two separate multi-viewers, each with up to 32 video inputs
<b>SD/Video input card</b>	SDI: SMPTE 259M, S-Video (Y/C), Component video, RGB/YUV, Composite video PAL/NTSC, CVBS: 1Vpp, DVI-I: digital or analogue component, 1920 x 1080
PAL PAL-M NTSC NTSC-4.43 SECAM SD-SDI	S-Video 50Hz/60Hz RGB/YUV 50Hz/60Hz 800x600 @ 60Hz 1024x768 @ 60Hz 1280x1024 @ 60Hz 1280x768 @ 60Hz 1600x1200 @ 60Hz 1920x1080 @ 60Hz
Inputs using 2 BNCs: Inputs using 3 BNCs: DVI input formats:	
<b>3G/HD Video input card</b>	3G/HD/SD, S-Video (Y/C), Component video, RGB/YUV, Composite video PAL/NTSC, CVBS: 1Vpp, DVI-I: digital or analogue component, 1920 x 1080 with different rear panel options
Input formats and standards supported: PAL PAL-M NTSC NTSC-4.43 SECAM SD-SDI HD-SDI	720x480i59.94, 720x576i50 1920x1080i60, 1920x1080i59.94, 1920x1080i50, 1920x1080p30, 1920x1080p29.97,1920x1080p25, 1920x1080p24,1920x1080p23.98, 1280x720p60, 1280x720p59.94, 1280x720p50
3G-SDI	1920x1080p60,1920x1080p59.94, 1920x1080p50
Inputs using 2 BNCs: Inputs using 3 BNCs: DVI input formats:	S-Video 50Hz/60Hz RGB/YUV 50Hz/60Hz 800x600 @ 60Hz 1024x768 @ 60Hz 1280x1024 @ 60Hz 1280x768 @ 60Hz 1600x1200 @ 60Hz 1920x1080 @ 60Hz
<b>Fiber Video input card</b>	Fiber for SDI video at 270Mbs, 1.5Gbs and 3Gbs SDI/HD-SDI (discrete fiber inputs or single fiber with CWDM)
<b>Video input loop-through:</b>	3G, HD and SD Four channel card with DIN1.0/2.3 connectors with active loopthrough to a second frame

<b>Video outputs:</b>	2 x DVI-I outputs (analogue and digital) per multi-viewer, supporting resolutions, XGA, 720p60, 720p50, SXGA, SXGA+ 1080p60, and 1080p50 . 16:9 aspect ratio.
<b>DVI output formats:</b>	800x600 @ 60Hz 1024x768 @ 60Hz 1280x1024 @ 60Hz 1280x768 @ 60Hz 1600x1200 @ 60Hz 1920x1080 @ 60Hz
<b>Video processing delay:</b>	Delay is approximately one video frame but depends on the video input selected.
<b>Image configuration:</b>	Images can be continuously varied in size and position on screen or may be displayed in pre-configured layouts, positions and sizes. When the outputs are configured to feed two display devices the tiles may be assigned to one or both outputs. The system menu can be displayed on one or both video outputs.
<b>Audio metering standards:</b>	AES/EBU, BBC PPM, DIN PPM, Nordic PPM, VU and Extended VU Loudness metering is available as an option
<b>Alarms:</b>	Video: loss of sync, loss of luminance, freeze frame or motion Audio: loss of embedded or external audio, over level, out of phase Other: loss of VITC, teletext, subtitles or V-chip, video non-sync detection
<b>Connectors:</b>	BNC, S-Video, 26 pin "D" HD male, 26 pin "D" HD female, 44 pole "D" HD male/44 pole "D" HD female, LAN, RS422, USB-2, DVI-I, IEC Power, Low-voltage connector
<b>Mechanical:</b>	3U frame with removable front panel 20 card slots and rear connector modules Heat sensitive, fan assisted ventilation with status LED 2 power status LEDs
<b>Weight &amp; dimensions:</b>	420mm (W) x 132mm (H) x 483mm (D), 19Kgs (full frame, estimated)
<b>Power requirements:</b>	84-260 VAC, 50/60Hz, optional 12-24 VDC Optional back-up external 1kW 1U power supply