

## Multi Display Processor (Multi Viewer)

# MV-16S

The MV-16S supports analog, digital, NTSC and PAL mixed inputs, is capable of UXGA/DVI high-resolution output, and is an ideal multi-display processor for large screen displays.



**User-selected pattern displays**  
 User can make layout settings and display in high resolution on a large screen (High-resolution output option is required.)



**Preset 12-split-screen display**  
 Four split-screen patterns optimized for 16:9 screens



**Preset 16-split-screen display**  
 Six split-screen patterns optimized for 4:3 screens



- Supports analog composite and SD-SDI mixed input (Inputs can be non synchronous)
- Supports 525/60 (NTSC) and 625/50 (PAL) signal mixed input
- Includes preset patterns for 4:3 and 16:9 monitor displays
  - 4:3 display: Screen is split into 4 / 5+1 / 9 / 12+1A / 12+1B / 16 sections
  - 16:9 display: Screen is split into 8+1A / 8+1B / 8+1C / 12 sections  
 (Optimized for 16:9 (squeeze) full-screen display)
  - Layout software enables users to design their own screen displays
- SD-SDI input embedded audio (8 channels) level display function
- SD-SDI, analog composite and VGA video outputs for split video output (scanning line doubler processing)
- Video loss detection function
- Tally display and title display functions
- In addition to standard functions, a wide range of functions are also available as options:
  - UXGA (1600 x 1200) high-resolution display output\*
  - DVI high-resolution display output\*

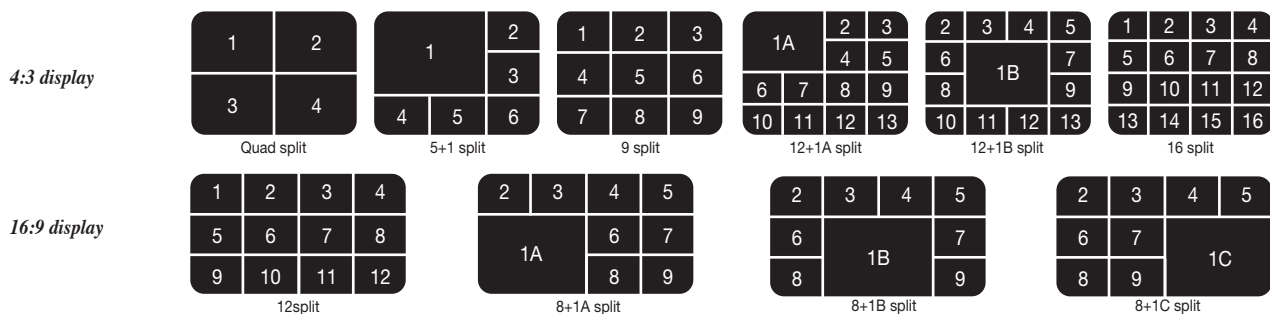
\*Only one option can be selected. Multiple options cannot be used at the same time.

## Specifications

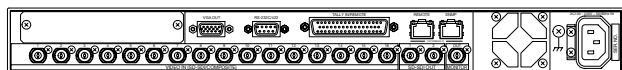
Standard	525/60 (NTSC), 625/50 (PAL) (Auto detect)
Sampling Frequency	Y: 13.5MHz, C: 6.75MHz
Quantization	10-bit
Video Input	Digital component: 270Mbps or Analog composite: 1.0Vp-p, 75Ω, 16ea., BNC (auto detect)
Phase Synchronization Range	1 frame (no frame rate conversion function is provided; some frames will be missing when inputting video signals whose system differs from the output system)
Video Output	Digital component: 270Mbps, 75Ω, 2ea., BNC (selectable for 525/60 or 625/50) Analog composite (for monitoring): 1.0Vp-p, 75Ω, 1ea., BNC (for monitoring use, selectable for NTSC or PAL), I/O delay: 1 - 2.5 frame
Display output	VGA output: 1ea., D-sub 15-pin (female), 720 x 486 pixels (refresh rate: 60Hz, scanning line doubler conversion processing), I/O delay: 1.5 - 3 frame
Display output (option)	UXGA output (MV-16UXGA): 1ea., D-sub 15-pin (female) - Resolution: 1600 x 1200 horizontal scanning frequency 74.9kHz vertical scanning frequency 59.94Hz - Resolution: 1360 x 768 pixels: horizontal scanning frequency 47.8kHz vertical scanning frequency 59.94Hz - Resolution: 1280 x 1024 pixels: horizontal scanning frequency 64.2kHz vertical scanning frequency 59.94Hz - Video signal: 0.7Vp-p, 75x - Reference signal: Separate sync, TTL positive - I/O Delay: 1 - 3 frame DVI output (MV-16DVI): 1ea., DVI-D connector (female) - Resolution: 1920 x 1080 horizontal scanning frequency 67.5kHz vertical scanning frequency 59.94Hz - I/O delay: 1 - 3 frame
Split-screen patterns	Preset (for 4:3 screen): 1, 4, 5+1, 9, 12+1A, 12+1B, 16 Preset (for 16:9 screen): 8+1A, 8+1B, 8+1C, 12 (normal display is shown when the 16:9 squeeze format monitor) User-pattern: 16 patterns (can be used using the layout software)
Character Display	Number of characters displayed: Max. 16 characters on one line for each input channel / Display colors: 16 colors Types of characters: Alphanumerics, symbols / Character configuration: Max. 24 x 24 dots
Tally Display	Displayed (red or green) in each input screen frame
Audio Level Display	Displays in each input screen frame, embedded audio for 8 channels
Interface	RS-232C/422: 1ea., D-sub 9-pin (male), full-duplex transmission speed: 9,600 bps, data length: 8 bits, stop bit: 1 bit, parity: none TALLY IN: 1ea., D-sub 50-pin (female), 1 to 16 inputs selectable, TTL negative logic level or make contact inputs, 16 inputs x 2 colors (red or green frames displayed) REMOTE IN: 1ea., D-sub 50-pin (female), Switching between full screen or split-screen, TTL negative logic level signal or make contact
Layout software (MV-16LS)	Split-screen video size: Re-size of the original video is possible / Split-screen video position: Settable to any user-selected position Supported OS: Microsoft Windows XP SP2 and later / Recommended PC environment: COM port required
Temperature / Humidity	0°C - 40°C / 30% - 90% (no condensation)
Power / Consumption	100VAC - 240VAC ±10%, 50/60Hz / 200VA (240W) at 100VAC
Dimensions / Weight	424 (W) x 44 (H) x 350 (D) mm EIA1RU / Approx. 10kg
Accessories	Operation manual, AC cord, Rack mount brackets, Layout Software
Options	MV-16UXGA: UXGA output card* / MV-16DVI: DVI output card*

\*Only one option can be selected. Multiple options cannot be used at the same time.

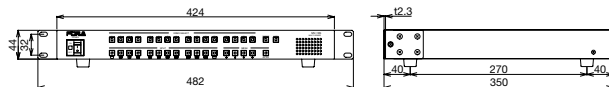
## Preset Split Patterns



## Rear View



## External Dimensions



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