

HD/SD/Analog/PC Mixed High Resolution Multi Viewer (Max. 32-Split, 4 Outputs)

MV-3200 Series

FOR.A[®]
INNOVATIONS IN VIDEO
and AUDIO TECHNOLOGY

HD/SD/Analog/PC Mixed High Resolution Multi Viewer
(Max. 32-Split, 4 Outputs)

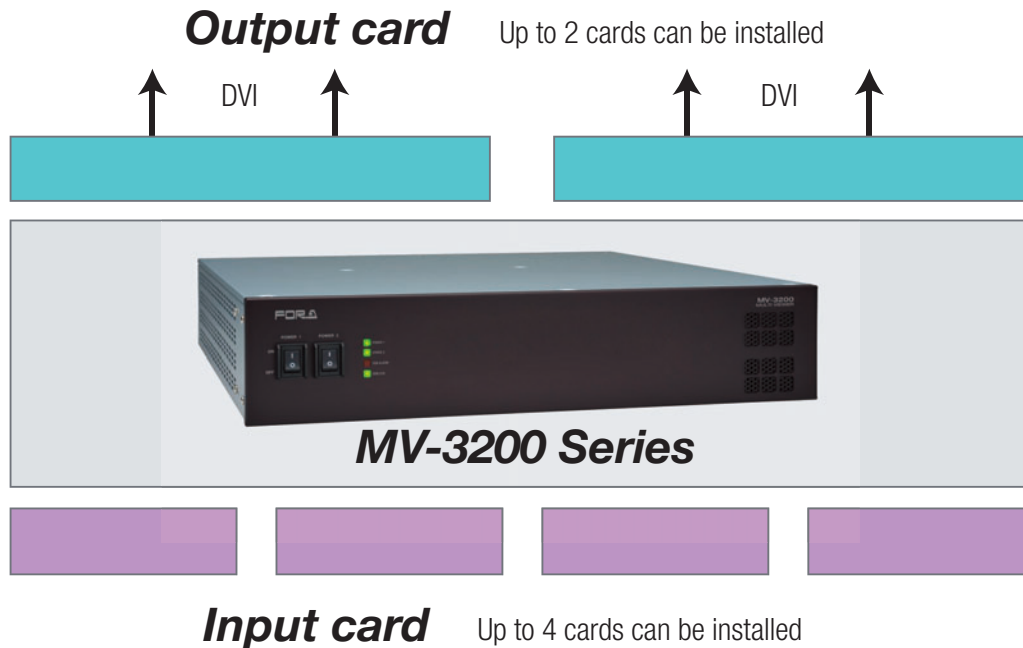
MV-3200 Series



Up to 32 Inputs with 4-Screen Outputs

The MV-3200 series is a multi viewer offering a multi-monitor display environment suited to your system by selecting and installing the required input and output cards on a 2U frame. Up to 4 input and 2 output cards can be installed on the frame, for a multi viewer with a maximum of 32 inputs and 4 outputs. Supports mixed input of HD-SDI, SD-SDI, analog composite and DVI (analog and digital) signals.

Input/Output Image



Frame

MV-3200MF	2U size frame allowing installation of up to 4 input cards and 2 output cards.
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Input card

MV-32HSDI	HD-SDI or SD-SDI: 8 inputs
MV-32HSDIL	HD-SDI or SD-SDI: 4 inputs *Allows active loophthrough for each input
MV-32AI	Analog composite: 8 inputs
MV-32AIL	Analog composite: 4 inputs *Allows loophthrough for each input
MV-32PCI	DVI-I: 3 inputs *Digital or analog can be selected.
MV-32AAI	Enables analog audio 16 channel input. D-sub 25 pin (female) x 2 8 stereo channels, balanced and unbalanced
MV-32DAI	Enables AES audio 16 channel input. BNC x 8 8 stereo channels, unbalanced

Output card

MV-32PCDO	DVI-I output 2 channels Can display maximum of 32 video windows and 4 clock windows with 2 channels together for DVI-I output
MV-32PCO	DVI output 1 channel DVI-D input 1 channel for cascading Up to 32 video windows and 4 clock windows can be displayed for DVI-I output. Multi viewer expandable to more than 32 inputs by cascading multiple multi viewers with DVI-D

Other Options (Planned for future support)

Redundant power supply unit	SNMP support
Front control panel	90 degree rotated output
Remote control unit	HD-SDI output (SD-SDI is not supported)

Supports Mixed Input of Various Signals

Supports mixed input of analog composite, SD-SDI, HD-SDI and DVI signal by combining input cards (asynchronous input allowed).

The lineup includes multiple cards to support your types and number of input signals (see table on the left). You can select a single optimal unit to suit your system size and input signal type.

Video Window Display of Each Output

Enables up to 32 video windows for each output card. The input video of your choice can be selected for each video window and the same input video can be displayed on multiple windows.

Time Display and Count Up/Down Timer

A maximum of 4 clocks can be displayed for each output card. Also, if not used as a clock display, it can be used as a count-up/count-down timer.

Layout Editor

The layout editor, which operates on a PC, comes standard, letting you change various settings such as split patterns and title display freely from a PC. The layout screen can be saved on the main unit memory in up to 32 patterns. By using the dedicated remote control unit, layout patterns saved on the main unit can be recalled easily.

Audio Level Display

A function is provided to display the level of the embedded audio signal that is superimposed on HD/SD-SDI. Also, by installing an analog audio or AES/EBU audio card into an input card slot, their levels also can be displayed.

Tally Display/ Title Display

- Tally display: Can be selected from frame tally or marker tally indicator. Two tally indicators can be set per window.
- Title display: Up to two strings of text can be displayed for each input. Supports display of alphanumeric characters and symbols (up to 16 letters), which can be displayed within or outside the picture.

Output card Independent Operation

Up to 2 output cards can be installed on a 2U frame, each operating independently. If one card malfunctions, the other one can display 32 inputs.

FOR-A Multi Viewer Line-up

MV-1600HS Series



- Max. 16 mixed input of HD-SDI, SD-SDI, analog composite, and PC (DVI) signals
- WUXGA (1920 x 1200 pixels) DVI-I High-resolution output
- Includes layout editor
- Network video transfer function
- 8-channel audio level display
- Tally display, Title display, and Time display functions
- Secondary DVI-I output (option)
- Redundant power supply (option)
- MV-1611HS : HD/SD-SDI output model also available

MV-410HS



- 4 mixed input of HD-SDI, SD-SDI, and analog composite signals
- Supports mixed input of different frame rate signals
- WUXGA (1920 x 1200 pixels) DVI-I High-resolution output
- Includes layout editor
- Network video transfer function
- 8-channel audio level display
- Tally display, Title display, and Time display functions
- Redundant power supply (option)

MV-410RGB

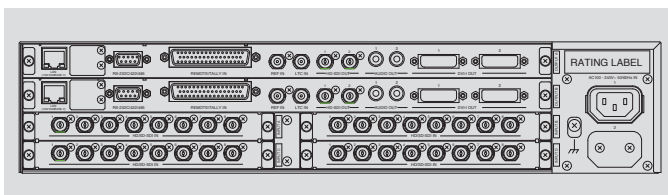


- 4 mixed input of RGB signals and analog composite signals
- Total 8 inputs: 4 DVI-I inputs and 4 analog composite inputs (choose any 4 channels)
- WUXGA (1920 x 1200) DVI-I outputs
- Including layout editor
- Title display and analog clock display functions

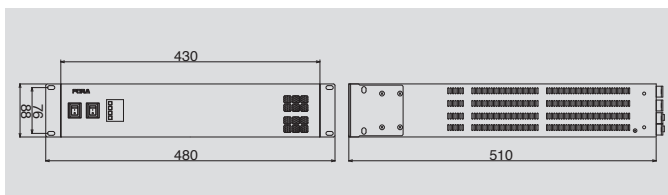
Specifications

Standards	HD: 1080/60i, 1080/59.94i, 1080/50i, 1080/30p, 1080/30PsF, 1080/29.97p, 1080/29.97PsF, 1080/24p, 1080/24PsF, 1080/23.98p, 1080/23.98PsF, 1035/60i, 1035/59.94i, 720/60p, 720/59.94p, 720/50p SD: 525/60 (NTSC), 625/50 (PAL) (3G: 1080/60p, 1080/59.94p, 1080/50p) (TBA)
Video Inputs	Selectable as below, refer to configuration chart of previous page (mixed input and asynchronous input are possible) HD-SDI: 1.485Gbps or 1.485/1.001Gbps, 75Ω, BNC SD-SDI: 270Mbps, 75Ω, BNC Analog Composite: 1.0Vp-p, 75Ω, BNC DVI: DVI-I connector (DVI-D or Analog RGB) - Resolution (digital/analog): 1920x1200, 1920x1080, 1600x1200, 1280x1024, 1360x768, 1024x768, 640x480 - Refresh Rate: 60Hz *1920x1200 is supported only the reduced blanking mode
LTC Input	1 input, SMPTE time code approx. 1.0Vp-p within ±6dB
Video Outputs	DVI: DVI-I connector, 1 or 2 output (outputs digital and analog outputs at the same time per output) - Resolution: 1920 x 1200, 1920 x 1080, 1680 x 1050, 1600 x 1200, 1440 x 900, 1360 x 768, 1280 x 1024, 1280 x 720 - Refresh Rate: 60Hz, 59.94Hz, 50Hz *No input/output frame rate converter. Frame rate difference between input and output results in the repeat frame or drop frame.
Audio Output	2 outputs (L/R), RCA connector Embedded audio from any input signal can be output in analog stereo
Time Display	4 clocks per output card Enables display of the current time (selectable internal clock or LTC) *Accuracy within ±10 seconds per month (at 25°C)
Split-screen Patterns	32 splits per output card User-selected screen
Character Display	Up to two strings of text can be displayed for each input Display characters: Maximum of 16 characters x 1 line per input channel Display area: Inside or outside of each channel window Character types: Alphanumeric, symbols
Tally Display	Frame or indicator display (red, green) selectable for each input
Audio Level Display	Up to 16 audio channels from GROUP1 to 4 of HD/SD-SDI embedded audios When equipped with analog audio input option and AES audio input option, Audio level meters for other than embedded audio.
Video Timer Display	The clock display window can be used as a count-up can be displayed or count-down timer.
Time Code Display	Ancillary time code (ATC) embedded on HD/SD-SDI
Video Detection	Video loss, Freeze, Illegal luminance level detection and display
Audio Detection	Audio loss, Silence, Over level detection and display
Temperature / Humidity	0°C - 40°C / 30% - 90% (no condensation)
Power / Consumption	100VAC - 240VAC ±10%, 50/60Hz IN / Max. 260VA (254W)
Dimensions / Weight	430 (W) x 88 (H) x 510 (D) mm, EIA 2RU / Max. 14.5kg
I/O cards	
Video input card	MV-32HSDI: HD/SD-SDI input card (8 channels) MV-32HSDIL: HD/SD-SDI input card (4 channels with active loop-through) MV-32AI: Analog composite input card (8 channels) MV-32AIL: Analog composite input card (4 channels with loop-through) MV-32PCI: DVI-I input card (3 channels, DVI-D or Analog RGB selectable)
Audio input card	MV-32AAI: Analog audio input card (16 channels) MV-32DAI: AES digital audio input card (16 channels)
Video output card	MV-32PCO: DVI-I output card (1 DVI-I output and 1 cascade input) MV-32PCDO: DVI-I output card (2 DVI-I outputs)
Accessories	Operation manual, AC cord, Rack mount bracket, Operation software (for windows)
Options (TBA)	Redundant power supply unit / Front control panel / Remote control unit / SNMP support function / 90° rotation display function / HD-SDI output (SD-SDI is not supported)

Rear Panel (w/ I/O cards)



External Dimensions



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