MV-3200

Specifications

**General**
- Head Office: 3-8-1 Ebisu, Shibuya-ku, Tokyo 150-0013, Japan
- Tel: +81-3-5494-3005

**Audio Input**
- AES Audio Input Card: AES Audio signal, Unbalanced, 75Ω BNC x 8
- ADP Audio Input Card: Analog Composite: 1.0 Vp-p, 75Ω BNC
- DVI Audio Input Card: DVI Digital and Analog RGB
- Analog Composite Input: Analog Composite: 1.0 Vp-p, 75Ω BNC
- Digital Audio Input Card: AES Audio signal, Unbalanced, 75Ω BNC x 8

**Audio Output**
- Audio Level Metering Up to 16 audio channels of embedded audios per input
- Background Display 1 image per output can be saved and displayed. Max. image size: 1920x1200
- Video Window Up to 32 windows per output card. * Up to 32 total windows for 2 outputs.
- Clock Window Up to 4 windows per output card. * Up to 4 total windows for 2 outputs.

**Video Input**
- Number of inputs: 128 channels per MV-32HSDI card
- Number of inputs: 16 channels per 3G/HD/SD-SDI input signal (4 groups, 8-stereo pairs)
- HD-SDI/SD-SDI Input Card Embedded audio signal

**Video Output**
- HD SDI/SDI Output 1: 1.5 Gbps, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p
- HD SDI/SDI Output 2: 1.5 Gbps, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p

**Power**
- Power: 100 V AC to 240 V AC ±10%, 50/60 Hz

**Dimensions**
- Dimensions: 430 (W) x 88 (H) x 510 (D) mm, EIA 2 RU

**Weight**
- Weight: 8kg

**Temperature/Humidity**
- Temperature/Humidity: 0ºC to 40ºC / 30% to 90% (no condensation)

**Data Backup**
- Data Backup: Stores the setting data to the memory (Rewrite capacity: approx. one hundred thousand times)

**Input Impedance**
- Input impedance: 600Ω or Hi-Z

**Input Level**
- Input level: -10 dBV/-3 dBu/0 dBu/+4 dBu

**Maximum Input Level**
- Maximum input level (with +4 dBu input level): +24 dBu (balanced), +18 dBu (unbalanced)

**Output Impedance**
- Output impedance: 100Ω or below

**Output Level**
- Output level: -10 dBV

**Input Range**
- Input range: 0.3 Vp-p to 1.0 Vp-p

**Output Range**
- Output range: 0.7 Vp-p

**Input/Output (multi channel) Control**
- Video source switching for SDI OUT 1 and 2
- Time correction input, Alarm reset input, Count up/down timer start/stop/reset
- Red/green tally inputs CHs 1 - 32*
- Audio switching of CHs 1 - 32 for audio monitors 1 and 2

**Other Input/Output**
- Remote Control Software Switch multi-channel screen layouts (Windows software)
- Live Viewer, Logo Registry Software, Layout Editor Edit size and position of windows in multi-channel screen (Windows software)

**Clock**
- Clock Window Up to 4 windows per output card. * Up to 4 total windows for 2 outputs.
- Internal clock or LTC time code selectable

**Audio Monitoring**
- Audio switching of CHs 1 - 32 for audio monitors 1 and 2
- Audio Loss, Silence, Over level detection

**Video Source**
- Video Inputs: Accepts the following signals (Mix input, asynchronous acceptable):
  - SD: 525/60 (NTSC), 625/50 (PAL)
  - HD: 1080/60i, 1080/59.94i, 1080/50i, 720/60p, 720/59.94p, 720/50p

**Sampling Frequency**
- Sampling frequency: 32/44.1/48 kHz

**Quantization**
- Quantization: 16 to 24-bit

**Routing Switcher**
- Routing Switcher mode: SD (270 Mbps), HD (1.5 Gbps), 3G (3 Gbps), HD-SDI (1.5 Gbps), 1080/59.94i, 1080/50i, 720/59.94p, 720/50p

**Operation**
- Operation: 24/7 operation

**Video Source Option**
- 3G/HD/SD-SDI Input Option
- 3G/HD/SD-SDI Output Option
- Analog Audio Option

**DVI Layout Option**
- Quantization: Y: 10-bit, C: 10-bit, Y: 8-bit, C: 8-bit (MV-32RT vertical rotation)

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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.

Features

- **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.

- **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.

- **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.

- **Time Display, Count Up/Down Timer, Remaining Time Counter**
  - 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 and remaining time counter.

- **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.

- **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 software, layout patterns saved on the main unit can be recalled easily.

### Input/Output Image

#### Input card

<table>
<thead>
<tr>
<th>Card</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MV-32HSDI</td>
<td>3G-SDI (LEVEL-A), HD-SDI or SD-SDI: 8 input</td>
</tr>
<tr>
<td>MV-32AI</td>
<td>Analog composite: 8 inputs</td>
</tr>
<tr>
<td>MV-32AIL</td>
<td>Analog composite: 4 inputs</td>
</tr>
<tr>
<td>MV-32PCI</td>
<td>DVI-I inputs: DVI-I inputs</td>
</tr>
<tr>
<td>MV-32AAI</td>
<td>Enables analog audio 16 channel input</td>
</tr>
<tr>
<td>MV-32DAI</td>
<td>Enables AES audio 16 channel input, BNC x 8</td>
</tr>
</tbody>
</table>

#### Output card

<table>
<thead>
<tr>
<th>Card</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MV-32PCDO</td>
<td>DVI-I output: 2 channels</td>
</tr>
<tr>
<td>MV-32PCSO</td>
<td>Redundant Power supply unit</td>
</tr>
<tr>
<td>MV-32RT</td>
<td>Front control panel</td>
</tr>
<tr>
<td>MV-32HDO</td>
<td>HD-SDI output: 3G-SDI (LEVEL-A), HD-SDI output</td>
</tr>
<tr>
<td>MV-32PSI</td>
<td>Enables AES audio 16 channel input, BNC x 8</td>
</tr>
<tr>
<td>MV-32PCI</td>
<td>Supports mixed input</td>
</tr>
</tbody>
</table>

### Options

- **Options**
  - Redundant Power supply unit
  - Front control panel
  - 3G-SDI output
  - AES/EBU audio card
  - Supports mixed input

#### Frame

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