MV-1640IP

**IP High Resolution Multi Viewer**

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Multi-viewer that accepts up to 16 IP inputs for HD (3G/1.5G); or four IP inputs for 4K\(^1\) in redundant SMPTE ST 2110 environments\(^2\)\(^3\) for output via 12G-SDI or HDMI to 4K monitors.

An optimal choice for supporting an IP system that also maintains the features and usability of existing baseband systems.

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**Supports IP/SDI\(^4\) input, SDI/HDMI output and ideal for to check IP materials**

- Video inputs: Total of 32 inputs are supported.
  - Up to 16 inputs for HD or up to four inputs for 4K\(^1\).
  - In addition, 16 inputs for 3G/HD/SD-SDI\(^4\).

**Features**

- Video outputs: 3G/HD-SDI 4 or 12G-SDI 1 outputs HDMI 1 output
  - HDMI 2.0 Level-B output, 3840 x 2160, YUV 4:2:0
  - Up to five monitor outputs, 25 windows\(^5\)
- Logo display in title areas
  - Stores and displays 4 logo images.
- Tally, Title, and Timecode\(^6\) Display
- Time of day, Timer, and Information Display
  - Can display time based on a 30-hour clock.
- Registers up to 24 schedule timers per day for 1 week.
- Supports external interfaces, and control protocols (including monitoring). SNMP function
- Detects frozen frames. (Y/C and Y only)
- Views error logs or user text in the Information Display.
- Flashing borders or error icons/messages to identify screens with errors
- Audio Level Display
- Audio Monitoring Output

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*1 Uncompressed video input only, to be supported.  *2 SMPTE ST 2110-10/20/30/40 (time code)  *3 SMPTE ST 2022-7  *4 With MV-1640SDI installed  *5 Number of windows are planned to be increased when output mode is added.  *6 To be supported
## Specifications

### Video input

| IP       | 4K: 2160/59.94p *, 2160/50p *, 4 inputs (uncompressed)  
|          | HD: 1080/59.94, 1080/50i *, 1080/59.4p, 1080/50p *, 16 inputs (uncompressed)  
|          | voIP standard: ST2110-10/20/30/40, ST2022-6 */7  
|          | Ethernet standard: 25GBASE-SR, 25GBASE-LR */7  
|          | IF control: IEC61834  
| SDI (optional) | 3G-SDI: 1080/60i, 1080/59.94, 1080/50i, 720/50p, 1080/59.4p, 720/50p, 1080/50i, 2160/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 1080/23.33p  
|          | 1080/29.97p/23.98p  
|          | 75Ω BNC 12G 1 output or HD 3 outputs  
|          | D-sub (female) x 1, up to 45-pin for input  
|          | Stores and displays 4 logo images  
|          | 1 input (with interface option)  
|          | Number of outputs: 4 stereo pairs per output  
|          | 3G-SDI: 1080/60i  
|          | 1080/60i, 1080/59.94, 1080/50i, 720/50p, 1080/59.4p, 720/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 1080/23.33p  
|          | 50-pin D-sub (female)  

### Video output

| SDI       | 75Ω BNC 12G 1 output or HD 3 outputs  
| HDMI     | HDMI connector (TYPE A)  
|          | Resolution: 2K: 1920 x 1080, 1080 x 1080, 1080 x 720  
|          | Sampling frequency: 24 kHz  
|          | Internal clock accurate to within 15 seconds/month (at 25°C)  
|          | Interface (optional)  
|          | Interface (standard)  
|          | IP  

### Audio input

| Embedded(SDI) | Number of outputs: 2 groups */4 stereo pairs per output  
| Embedded(HDMI) | Number of outputs: 4 stereo pairs per output  

### Video/Clock display windows

| Up to 25* windows  

### Monitor output

| 4K: 1 output or 2K 4 outputs  

### Clock display

- Time based on internal clock or LTC time code  
- Time correction via GPI or SMPTE  
- Internal clock accurate to within 15 seconds/month (at 25°C)