

Descriptions

The demands of modern television facilities go beyond the display and monitoring of video and audio signal. The traditional monitor wall has been replaced by a Virtual Monitor Wall, which is a controllable, re-configurable, and intelligent visual information system.

The operator has instant visibility of each source including video, audio level meters, and visual alert of fault conditions, clear display of channel idents, tally status, clocks and logos.

Graphic/Logos

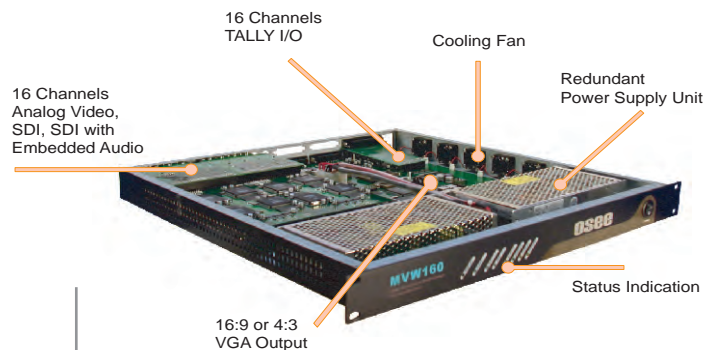
User can select from a choice of display styles or "skins". Templates are available for user to edit. These define the appearance of each window and background such as the labels and how tallies, clocks are displayed. Additionally, graphic elements such as logos or bitmap files can be inserted in the display to customize the appearance of the monitor wall.

Clocks

The MVW160 facilitates the display of multiple clocks to externally applied time code, in digital format, with programmable offsets. Various clock styles are available for display.

Fault Detection & Alarms

The MVW160 provides alarm monitoring and logging of video, audio and system status. Alarm conditions are shown visually on-screen and logged to file and indicated to all connected user via RS232/422. Alarm conditions include: video loss, audio loss, black/frozen picture, PSU failure, system over-temperature.



Features

- ✔ High resolution display processor up to 1280X1024
- ✔ Quality display guaranteed by its de-interlacing and zooming chip set
- ✔ 1RU compact design for space saving and high reliability
Redundant power supplies
- ✔ Accepts 4 video processing cards, supporting up to 16 scalable windows
- ✔ Accepts corresponding analog audio or AES audio
- ✔ SDI processing card demultiplexes 2 channels of embedded audio per SDI source
- ✔ Up to 2 VU and PPM Audio Meter can be displayed per video window Tally indicators, source ident, LTC reference clock, date, logo, and background picture
- ✔ Alarm with log file for:
 - Video loss, black picture, frozen picture, EDH analog video scope
 - Audio loss
- ✔ Remote controllable and configurable by PC and break-out control panel
- ✔ One client controls up to 16MVW160s via remote control panel

Clock, Date, Count Down

Freely Self-Designed Window Size and Position

Multi Language Source Ident



User-Defined Background and LOGO

2 Channel VU and PPM Display

Analog, AES, Embedded Audio Display with One Channel Monitoring Output

Signal Loss Indication

TALLY or Alarm Indication

Compatible 16:9 and 4:3 Ratio

Pristine image quality

The MVW160's advanced processing delivers pristine image quality; each video input is equipped with an advanced de-interlacing and scaling engine to ensure high quality monitoring without undesired artefacts. The output can be set to the native resolution of the display, up to 1280x1024 resolution, and each image can be scaled up to full screen, and down to a fraction of its original size.



Configurable audio meters and monitoring

Embedded audio can be de-multiplexed from an SDI signal to provide two stereo VU/PEAK meters displayed on-screen. In addition, optional audio input boards allow the display of 16 AES/EBU audio, 16 mono or stereo audio, and any pair can be selected to the analog stereo monitoring output.

Source IDs

Multi-language source IDs (UMDs) can be included outside the display window.

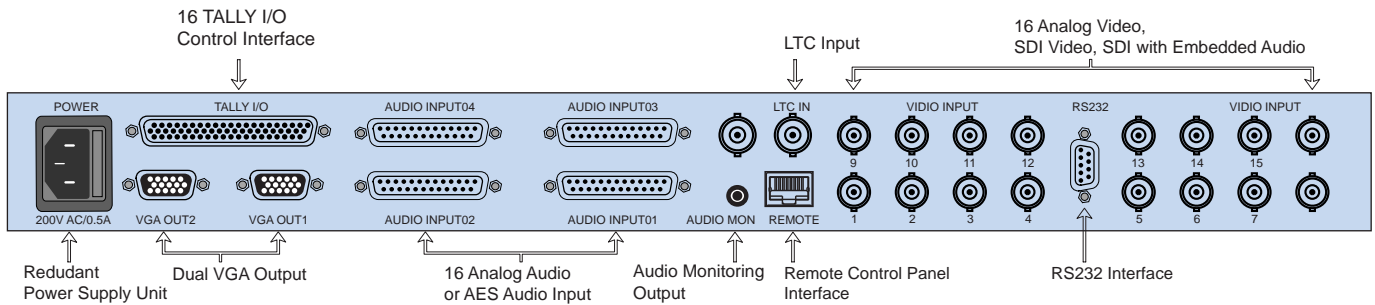
Powerful layout editing

The MVW160 software allows the display elements to be customized from an external PC, including window aspect ratios, sizes and positions, as well as the assignments of source IDs, audio meters, tallies, and alarm status indicators. Multiple layouts can be stored on the system and recalled afterwards.

Easy control and configuration

The MVW160 can be controlled and configured by an external PC and /or remote control panel. A single PC or remote control panel can control up to 16 MVW160s.





Specifications: specifications are subject to change without notice

SDI Input (MVW160-D4)

Input Channel	4
Standard	SMPTE 259M-C; 270Mb/s, 525/625 Component
Connector	BNC per IEC169-8 standard
Impedance	75 ohms
Return Loss	>18dB
Signal Scope	800mV +/-10%
Equalization	Automatic to 100 m (Belden 8281)
Rate	8 bits

Embedded Audio

Standard	SMPTE 272M-A
PPM Response	Up: Instant Down: -20dB/1.5s
VU Response	300ms
Meter Scales	0 to -45dBfs

Analog Composite (MVW160-V4)

Input Channel	4
Standard	NTSC, PAL, PAL-M, PAL-N, SECAM
Signal Scope	1Vp-p
Impedance	75 ohms
Connector	BNC per IEC169-8 standard
Return Loss	>40dB to 5MHz
Rate	8 bits

Analog Audio Input (MVW160-A16)

Input Channel	16 Mono or 8 Stereo
Signal Type	Balanced Stereo
Resistance	20K Balance or 10K Unbalance
PPM Response	Up: 10 ms Down: -20dB/1.5s
VU Response	300ms
Meter Scales	0 to -45dB
Maximum Level	+24dBu
Input Level Range	+24 to -4 dBn, 6 dB as a step
Connector	DSUB25 (male) X 2

LTC Input (MVW160-MP)

Signal Type	SMPTE/EBU LTC 25/30
Connector	BNC
Precision	0.1Vp-p

GPI (MVW160-MP)

Input Channel	32
Standard	TTL
Connector	DE-62 (male)
Function	Tally Input

VGA Output (MVW160-MP)

Output Channel	2
Signal Type	Analogue RGBHV
Resolution	1024X768 or 1280X1024
H Frequency	> 31kHz
V Frequency	50 or 60Hz
Signal Scope	0.7Vp-p
Connector	DE-15P

Audio Monitoring Output (MVW160-MP)

Output Channel	1
Signal Type	Unbalanced Stereo
Maximum Level	+12dBu
Connector	Phone jack
Volume Control	Mute to Max Level

GPO (MVW160-MP)

Output Channel	16
Signal Type	Open Collector 5 to 20VDC
Connector	DE-62 (male)
Function	Alarm Signal

RS232 (MVW160-MP)

Signal	RS-232 (EIA/TIA-232)
Location	Rear Panel
Connector	DE-9P (male)

Remote Interface (MVW160-MP)

Signal	RS-422 (SMPTE 207M, EBU-3245)
Location	Rear Panel
Connector	RJ-45

Power

Power Supply	Redundant Power Supplies
Voltage	90-265VAC
Frequency	50/60Hz
Power Dissipation	100W

Dimension

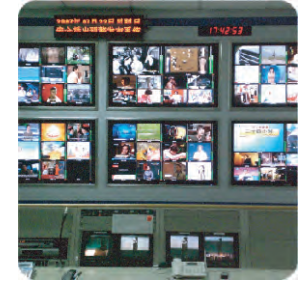
Height	44mm
Width	483mm
Length	470mm

Ordering Information

MVW160-MP	Main Frame, including VGA Output, Audio Monitoring Output, GPI/O, LTC Input, Redundant Power Supplies
MVW160-V4	4 Composite or Y/C Input
MVW160-D4	4 SDI with Embedded Audio Input
MVW160-A16	16 Mono or 8 Stereo Audio Input
RCP-160	Remote Control Panel up to 16 Main frames

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MVW160 MultiViewer



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