

HIGH PERFORMANCE DISPLAY WALL CONTROLLERS

FOR MISSION-CRITICAL APPLICATIONS



Command and Control

Utilities

Transportation

Emergency Operations Centers

Network Operations

Security Monitoring

Telecommunications

Military

Broadcast

 **MITSUBISHI
ELECTRIC**
Changes for the Better

Windows-Based Workstations for 24/7/365 Operation

With dual network ports | multiple graphics card slots | high performance components

Mitsubishi Display Wall Controllers

Mitsubishi display wall controllers are high-performance, industrial-grade Windows-based workstations built for continuous operation, 24 hours a day, seven days a week, 365 days a year. Using Mitsubishi D-Wall software, they determine the layout of the video wall and route images from base computers, computers on the network and video devices into the desired areas of the screen.

Each controller uses high-end off-the-shelf components, including the latest Intel processors, memory and storage devices. This approach avoids the need to develop and debug proprietary hardware and operating systems, giving you the most reliable, cost-efficient systems possible. Shared components include:

- Quad core Intel processors
- Dual network ports (10/100/1000Base-T Ethernet)
- Support for multiple high-definition graphics cards
- Made in USA for longevity and dependability
- Windows 7 Ultimate operating system
- Lightweight, durable aluminum chassis
- May be daisy-chained for extremely large display walls

VC-TP2S Shelfmount/Wallmount Controller

Designed for smaller display walls – supports 2 graphics cards for up to 8-screens

- 4GB memory
- One 2.5" SATA II 500GB hard drive, one DVD drive
- Flexible brackets for horizontal or vertical mounting inside a display wall enclosure, on a cabinet back wall or in other space-limited locations
- Includes USB keyboard and mouse



VC-TP9S Rackmount Controller

Scalable system – supports up to 9 graphics cards for display walls of up to 36 screens

- 16GB memory
- 2 500GB, 2.5" SATA II hard drives in a RAID-1 array plus DVD drive
- Hot swappable redundant power supply
- Hold down bar for option cards adds security in high-vibration environments
- Includes 2.4GHz wireless keyboard and mouse



VC-TP14S Rackmount Controller

Scalable system – supports up to 14 graphics cards for display walls of up to 56 screens

- 16GB memory
- 2 500GB hard drives (RAID-1) plus DVD
- Hot swappable N+1 power supply
- Hold down bar for option cards adds security
- Includes 2.4GHz wireless keyboard and mouse



Matrox Mura™ Graphics Cards

Single-slot boards combine up to 4 digital and analog inputs and outputs. Plug multiple boards into your Controller to create very large display walls.

- PCI Express x16 Gen2 bus architecture
- 64 Gbit/sec duplex data transfer for flawless motion video
- HDCP-compliant for Blu-ray and other protected sources
- Input formats: SL-DVI, RGB (VGA), Component, S-Video, Composite Video
- Output formats: SL-DVI, RGB (VGA)



Choose 4 output/4 input, 4 output/2 input or 4 output/0 input versions. Video input cards also available.

Why choose a Mitsubishi Display Wall Controller?

Mitsubishi workstations are a crucial part of our Display Wall Solution, designed to achieve more efficient operations and better decisions via a very large, extremely detailed common operating picture that technicians, managers and officers can share.

With over 1,500 active installations using more than 40,000 projection cubes, Mitsubishi Display Walls are helping government, transportation, utilities, the military, emergency responders, IT and security professionals work faster, smarter and better every day.

- **Built tough** to survive and thrive in 24/7/365 environments.
- **Built to military specifications**, meeting MIL-STD-810 requirements for use in stressful environments.
- **Matrox validated**. Supports PCI Express Gen2 interconnect; certified for use with high-performance Matrox video cards.
- **Flexible and scalable** to meet your current and future needs.
- **Three year warranty**. Option to extend to four or five years.



Mitsubishi D-Wall Software

Quick, intuitive control over the display wall and its source devices

If you are to use your display wall efficiently, you need software that gives you complete, intuitive control over its layout, the windows it includes, and the computer and video sources to be shown, no matter where they are located on the enterprise network.

Mitsubishi D-Wall Software has two components. Install D-WALL Server on the network server and a copy of the D-WALL Control client on each operator's workstation.

Administrator and Security Features

- Operator control areas: define areas of the display wall that each operator controls from his or her base computer
- Common areas: administrators define where two or more operators can collaborate
- Multi-Cursor Window Manager allows multiple users to simultaneously interact with applications on a computer and the display wall
- Ticker window provides alert messages for operators
- System monitoring and troubleshooting
- Operator authorization via user names and passwords
- Definable operator groups allow administrators to limit the functional roles and permissions of each operator
- Brightness and color control

Operator Features

- Drag and drop to place and size windows on the display wall
- Wall layout preview allows operator to preview layouts on a base computer before sending to the display wall
- Open, display and collaborate on software applications installed on a base computer
- Display screen images from computers on a VPN
- Decode and view IP video streams on the display wall, each within its own window
- Multilingual interface allows each operator to choose the language used on his or her base computer

Scheduling Features

- Adapt the display wall to the needs and preferences of each work shift
- Change the display wall layout by day of the week, date and time
- Include or not include specific input sources
- Control hardware functions, including on/off



- 1 Main Menu** Menu items of D-WALL control (client).
- 2 Shortcut icons** Shortcuts to frequently used tools.
- 3 Input sources** Input source registration, editing and deleting. Registered sources are listed.
- 4 Wall layout** Preview of the current display wall with or without thumbnails. Drag-and-drop to add windows; resize windows to configure layouts.
- 5 Window list** The windows being displayed.
- 6 Wall layout list** Wall layout registration, editing and deleting.

Windows-Based Workstations for 24/7/365 Operation

	VC-TP2S	VC-TP9S	VC-TP14S
Mounting	Shelfmount/wallmount, front-access bays	EIA RS-310C 19" Rackmount 4U	EIA RS-310C 19" Rackmount 5U
Construction	Lightweight aluminum - gray front	Lightweight aluminum - black front	Lightweight aluminum - black front
Graphics	Up to 2 Mura MPX-4/4, 4/2, 4/0	Up to 9 Mura MPX-4/4, 4/2, 4/0	Up to 14 Mura MPX-4/4, 4/2, 4/0
Motherboard	Trenton MicroATX JXM 7031	Trenton MicroATX JXTS6966	Trenton MicroATX JXTS6966
Processor	Long-life Quad-Core Intel Xeon C5509	Long-life Quad-Core Intel Xeon C5509	Long-life Quad-Core Intel Xeon C5509
Operating System	Microsoft Windows 7 Ultimate	Microsoft Windows 7 Ultimate	Microsoft Windows 7 Ultimate
System Memory	4GB (installed)	16GB (installed)	16GB (installed)
Network Interface	2 - 10/100/1000Base-T Ethernet	2 - 10/100/1000Base-T Ethernet	2 - 10/100/1000Base-T Ethernet
USB	2 USB 2.0 front/4 rear	4 USB 2.0	4 USB 2.0
Additional	1 - DVI-I Digital/Analog Video, HD Audio (Line In, Line Out, MIC), PS/2 Mouse, PS/2 Keyboard	Trenton BPG7087 PCI Ex 2.0 Backplane	Trenton BPG8032M PCI Ex 2.0 Backplane
Drives*	1 - 500GB, 2.5" SATA II, 1-DVD	2 - 500GB 2.5" SATA II (RAID-1), 1-DVD	2 - 500GB 2.5" SATA II (RAID-1), 1-DVD
System I/O	USB keyboard & mouse	USB 2.4GHz wireless keyboard & mouse	USB 2.4GHz wireless keyboard & mouse
Power Supply	1 - 1U, EPS, 550W, 90-264 VAC full range**	Mini-Redundant ATX/EPS, 800W	1485W, N + 1 redundant power supply
Cooling Fans	2 - 80mm (front-mounted)	3 - 92mm (center-mounted), 90 CFM	4 - 92mm (center-mounted), 102 CFM
LED Indicators	HDD activity and power status	HDD activity, power status, fan speed	HDD activity, power status, fan speed
Switches	Power on/off System reset	Power on/off System reset	Power on/off System reset
Air Filter	Front access filter/no tools	Front access filter/no tools	Front access filter/no tools
Net Weight***	15.0 Lbs. (6.81 Kg)	30.0 Lbs. (13.62 kg.)	34.8 Lbs. (15.8 kg.)
Dimensions	12.0" (W) x 5.21" (H) x 12.11" (D) 30.48cm (W) x 13.23cm (H) x 30.76cm (D) Mounting brackets add 1.003" (2.548cm)	19.0" (W) x 7.0" (H) x 20.0" (D) 48.3cm (W) x 17.8cm (H) x 50.8cm (D) (with 19" rackmount handles installed)	19.0" (W) x 8.75" (H) x 23.0" (D) 48.26cm (W) x 22.23cm (H) x 58.42cm (D) (with 19" rackmount handles installed)

*Additional configurations available for VC-TP2S; additional bays available in VC-TP9S and VC-TP14S

**Other power supplies available on request

***Includes chassis, mother board, backplane, power supply only



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.



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