

Pacific MS

All-in-One Multiviewer, KVM, and Matrix Switcher



Pacific MS (MS-1, 2, 3, and 6)

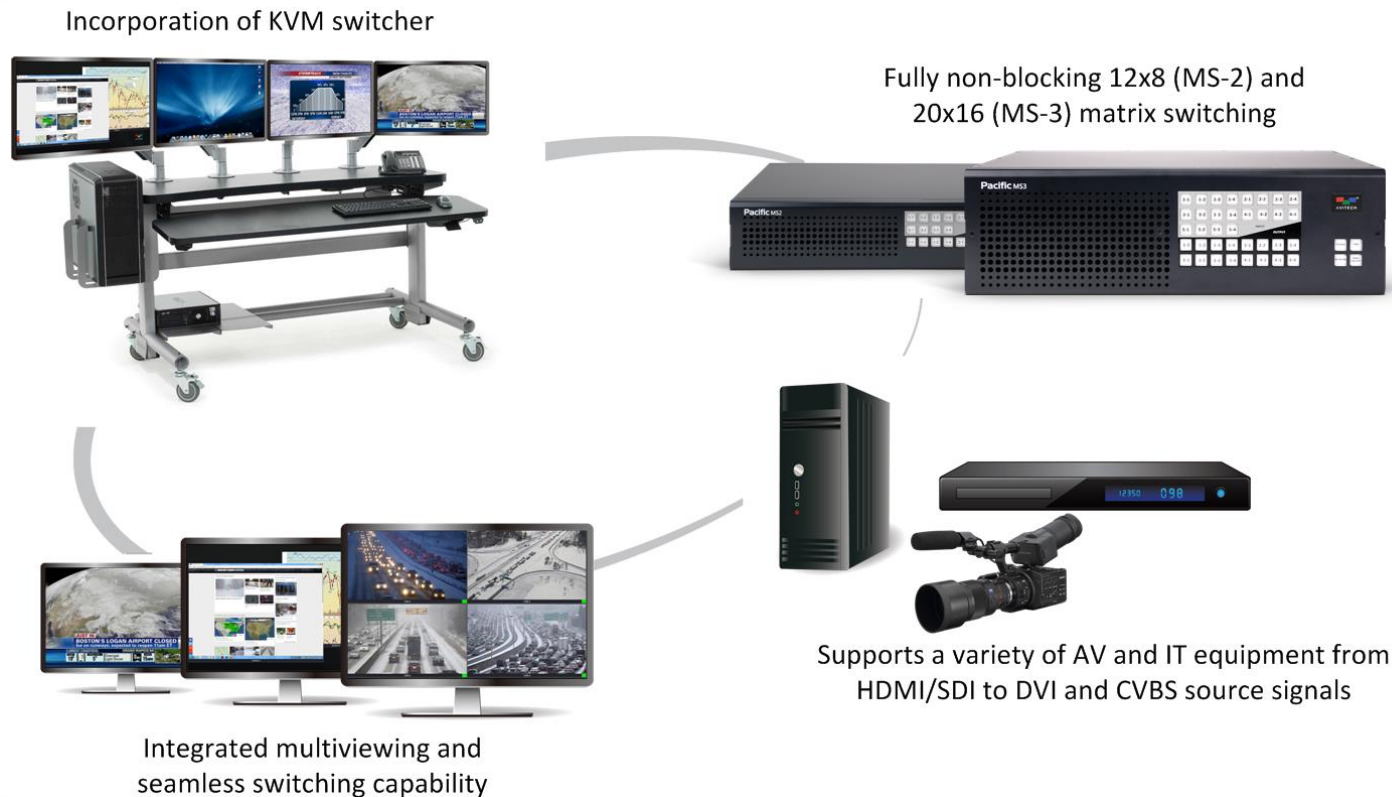
HDMI / SDI and KVM Switcher Integrated with Multiviewer

— Integrated Monitoring, Distribution, and Operation Solutions



Pacific MS Overview

Accommodating a comprehensive set of I/O cards, the Pacific MS incorporates a high-performance multiviewer and KVM switcher into one chassis. Capable of taking both HDMI and SDI source signals from a variety of AV/IT equipment, it delivers an integrated solution for signal routing and distribution, concurrent monitoring, and intuitive operation for streamlined access to multiple systems.



Pacific MS Features

All-in-one KVM matrix

switcher incorporates HDMI/SDI signal switching, monitoring, and operation functions into a modular 1RU/2RU/3RU/6RU enclosure.

Independent routing

of video and mouse/keyboard control through the non-blocking 12x12 (MS-1) / 12x8 (MS-2) / 20x16 (MS-3) / 32x32 (MS-6) matrix switching architecture.

Multiviewer output cards

with mouse/keyboard connectivity provide free-scaling quad/dual-view monitoring and remote access to multiple source systems.

Flexible output grouping

creates custom multi-monitor consoles that facilitate single-user workstation and multi-user command-and-control operations.

Streamlined multi-monitor

operation allows intuitive control of multiple computer systems by moving the mouse pointer from one screen to another to control each source ("Surfer" feature).

User-friendly in-system GUI

offers simple routing configurations, real-time source preview, and output confirmation; any source computer can be remotely controlled on the GUI.

Scalable architecture

enables multiple Pacific MS units to work together to meet additional needs; all units can be controlled with one monitor and mouse/keyboard.

Integration of video wall

processor simplifies sharing of sources across multiple video wall displays and users, ensuring effective control room workflow (coming in Q4 2021).

Hot-swappable cards

, field-serviceable fan modules, and redundant power supply options ensure optimized system uptime and mission-critical reliability.

Agenda

Overview

Features

Applications



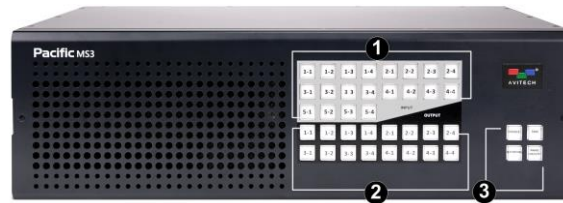
Overview – Front Panel



Pacific MS-1



Pacific MS-2



Pacific MS-3



Pacific MS-6

- 1 Push buttons for selection of an input signal to be routed
- 2 Push buttons for selections of output destinations where the selected input will be routed
- 3 Push buttons (SOURCE, DESTINATION, and TAKE buttons) for complete switching/routing configurations; PANEL ON / OFF button locks switching/routing control from the front push-button panel
- 4 [MS-1 only] 12V DC 15A power supply (Max. 132 Watt)
- 5 [MS-1 only] USB-A ports for KM control and keypads
- 6 [MS-1 only] Dip switches for configuration
- 7 [MS-1 only] RJ-45 port for HTTP commands, third-party control, or web browser-based GUI.
- 8 [MS-1 only] RS-232 (DB-9) port for third-party control
- 9 [MS-1 only] SFP port for connection to oIP ecosystem

Overview – Rear Panel Input Cards (MS-3)

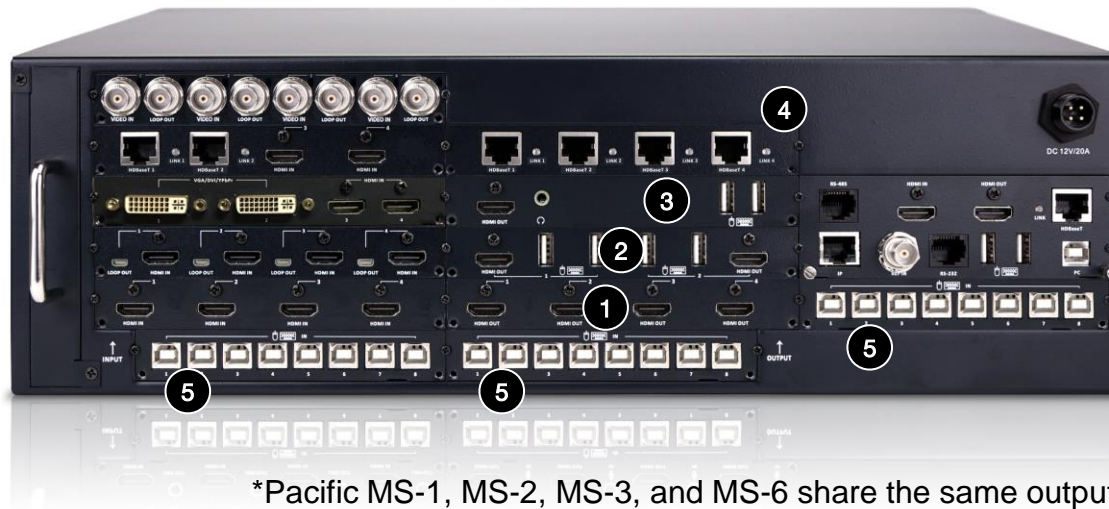


*Pacific MS-1, MS-2, MS-3, and MS-6 share the same input cards

- 1 SIB-H: HDMI input card**
 - HDMI input ports (x4) for HDMI/DVI video source signals
 - Resolution up to 1920x1200 @60Hz
 - Incorporates HDMI 1.4 technology (HDCP compliant)
 - Source signal equalization extends cabling distance up to 40m
 - Supports up to 8-channel embedded audio (HDMI)
- 2 SIB-HL: HDMI input card with loop-out (micro HDMI)**
- 3 SIB-DH: DVI/HDMI input card**
 - DVI input ports (x2) for DVI/VGA/YPbPr video source signals
 - HDMI input ports (x2) for HDMI/DVI video source signals
- 4 SIB-T: Transmission extended input card**
 - HDBaseT ports (x2) for extended video, audio, and mouse/keyboard control up to 100m (working in conjunction with Avitech's Pacific X-HDUT transmitter)
 - HDMI input ports (x2) for HDMI/DVI video source signals
- 5 SIB-BNC: SDI/CVBS input card**
 - BNC connectors (x4) for 3G/HD/SD-SDI / CVBS (NTSC/PAL) video source signals
 - Loop-out BNC connectors (x4)
- 6 SIB-IP: KVM over IP card**
 - RJ-45 Gigabit IP input ports (x2)
 - HDMI output ports for decoded IP source (x2)

**All USB interfaces are USB 2.0 compliant

Overview – Rear Panel Output & KM Cards (MS-3)



*Pacific MS-1, MS-2, MS-3, and MS-6 share the same output and KM cards

- 1 SOB-H:** HDMI output card
 - HDMI output ports (x4) for HDMI or DVI monitoring
 - Audio phono jacks (x4) for microphone inputs
- 2 SOB-HPW:** Multiview output card with seamless switch
 - HDMI output ports (x2), each offering seamless switching between two sources in full-screen or dual-view
 - USB-A ports for mouse/keyboard connection to control the sources
- 3 SOB-QPW:** Multiview output card at full HD
 - HDMI output port for multiview monitoring of four sources (free-scalable with PiP)
 - Audio phono jack for external headphone/speaker connection
 - USB-A ports for mouse/keyboard connections
- 4 SOB-T:** Transmission extended output card
 - HDBaseT ports (x4) for extended video, audio, and mouse/keyboard control up to 100m (working in conjunction with Avitech's Pacific X-HDUR receiver)
- 5 KM:** Keyboard & mouse card
 - USB-B ports (x8) for USB mouse/keyboard signal routing to sources
- 6 SOB-Q20:** 4K30 multiview output card
 - HDMI output port for multiview monitoring (quad-view)
 - USB-A ports for mouse/keyboard connections to control the sources

**All USB interfaces are USB 2.0 compliant

Overview – Rear Panel Control Board & PSU (MS-3)



*Pacific MS-1, MS-2, MS-3, and MS-6 share the same control board and PSU

- | | |
|---|--|
| 1 RS-485 port for ASCII/third-party commands | 6 BNC connector for Genlock reference sync input signal |
| 2 HDMI input port for local system connection, or to take a cascaded input from an upstream Pacific MS | 7 RS-232 port for ASCII/third-party commands |
| 3 HDMI output port for in-system GUI/local system monitoring, or to send a cascaded output to a downstream Pacific MS | 8 USB-A ports for mouse/keyboard connection to control the in-system GUI/local system, or to connect an upstream Pacific MS for bypassing mouse/keyboard control |
| 4 HDBaseT port for extended HDMI and mouse/keyboard control for in-system GUI/local system (up to 100 meters) | 9 USB-B port for mouse/keyboard control of the local system, or to connect a downstream Pacific MS in cascade |
| 5 Ethernet (IP) port for ASCII/third-party commands | 10 12V DC 10A/20A power supply (Max. 110/220 Watt for MS-2/MS-3 respectively) |

*All USB interfaces are USB 2.0 compliant

Overview – Output Card Selection



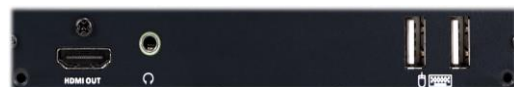
SOB-H: HDMI output card



SOB-HPW: Dual view



SOB-Q20: Quad view at 4K30



SOB-QPW: Quad view



SOB-T: Extended output



Feature – Intuitive In-System Graphical User Interface (GUI)

The Pacific MS includes a user-friendly in-system GUI that manages all configurations without the need for PC-based software. It comprises intuitive router control and workstation configurations with drag-and-drop simplicity. Featuring real-time monitoring of any source/output and remote access to any source all via a single interface, the Pacific MS simplifies signal routing and centralized administration over all connected systems throughout the facility.

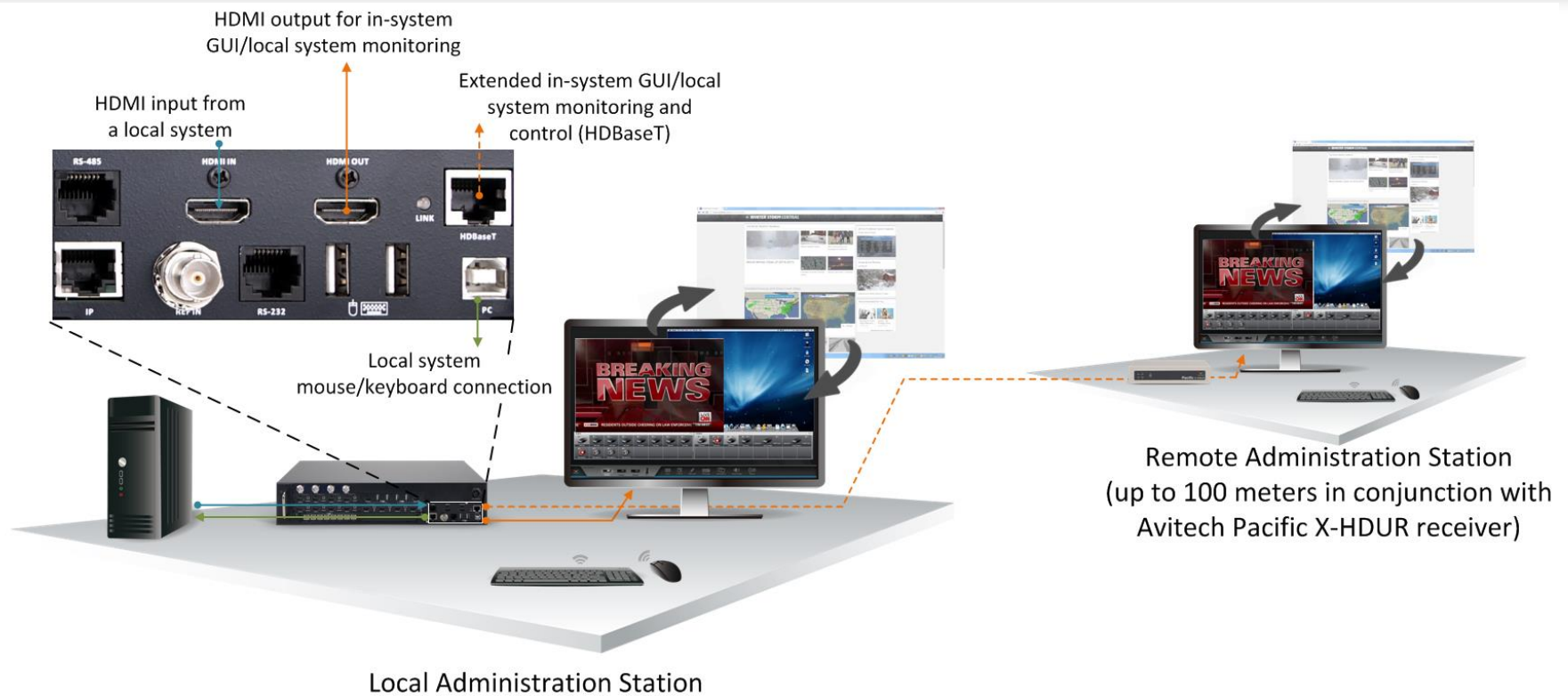


Feature – Intuitive In-System Graphical User Interface (GUI)



Feature – Local and Remote Administration

By connecting a local computer system to the Control Board, the Pacific MS allows user to instantly switch operation between the in-system GUI and the computer. This empowers the administrator to multi-task for higher productivity without increasing equipment clutter. In addition, with support for HDBaseT extension, the Pacific MS facilitates GUI/local system monitoring and control from both local and remote administration stations.



Feature – Scalable System GUI

Scalable system architecture enables multiple Pacific MS GUIs to be cascaded to accommodate additional workstations for larger command and control needs. Administration over multiple units and their connected systems remain intuitive in the same manner as managing a single Pacific MS. Through one monitor and mouse/keyboard console, administrator can freely switch control between any cascaded unit (Pacific MS or locally connected computer).



Switch control to any of the cascaded unit (MS-2/3 or local system) by simply clicking on the target device on the GUI (or via hot-key combinations)

Application – Any-to-Any Switching Integrated with IP



Any-to-Any KVM Matrix Switching Integrated with the Avitech over IP Ecosystem

Application – Output Grouping & Multi-Monitor Workstation

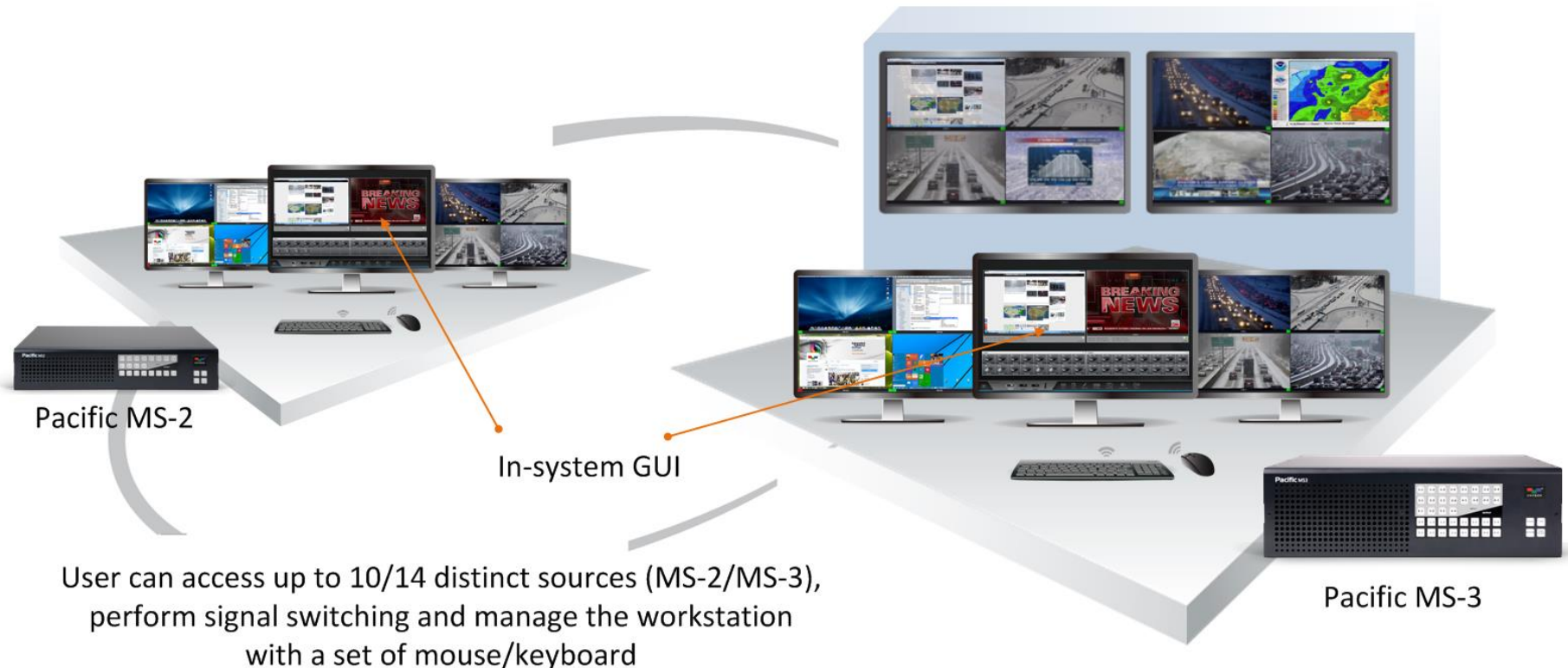
The Pacific MS features grouping of individual outputs and creating multi-monitor workstations for easy management over multiple systems. Without requiring separate sets of mouse/keyboard, the operator can seamlessly switch to control any workstation computer by simply moving the mouse pointer from one screen/window to another (“Surfer” feature).



Grouping of one SOB-HPW (dual-view) and two SOB-H outputs into a multi-monitor workstation

Application – Integrated Single-User Workstation

Custom workstation allows user to access information coming from disparate sources and networks within easy reach. Taking streamlined workflow to the next level, the Pacific MS enables grouping the controlling GUI with other outputs. This forms an integrated workstation for effective operation space across multiple systems.



Application – Multi-User Command and Control Workstations

Flexibly grouped from various combinations of outputs, a single workstation can accommodate up to 16 systems across 4 monitors. This streamlines multiple systems control and reduces equipment clutter, creating a more ergonomically effective working environment. Alternatively, the Pacific MS can configure multiple workstations, facilitating concurrent monitoring and distributed multi-user command and control operation.





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