

SEADA
SEADA SD-MV-
KM43 4K60Hz
KVM Matrix with
Multiviewer and
Matrix Switch



SEADA SD-MV-KM43 4K60Hz KVM Matrix with Multiviewer and Matrix Switch User Manual

[Home](#) » [SEADA](#) » SEADA SD-MV-KM43 4K60Hz KVM Matrix with Multiviewer and Matrix Switch User Manual 

Contents

- [1 SEADA SD-MV-KM43 4K60Hz KVM Matrix with Multiviewer and Matrix Switch](#)
- [2 Product Usage Instructions](#)
- [3 Introduction](#)
- [4 Features](#)
- [5 Remote Control Operation](#)
- [6 Mouse & Keyboard Operation](#)
- [7 System Diagram](#)
- [8 RS232 command](#)
- [9 Documents / Resources](#)
 - [9.1 References](#)
- [10 Related Posts](#)

SEADA

SEADA SD-MV-KM43 4K60Hz KVM Matrix with Multiviewer and Matrix Switch



Specifications

- Product: SD-MV-KM43 4K60Hz KVM Matrix with Multiviewer & Matrix Switch
- Resolution: Up to 3840×2160@60Hz
- Inputs: 4 x HDMI2.0, 4 x PC USB/BM
- Outputs: 2 x HDMI2.0, 1 x HDMI2.0 loop out
- Control: Front panel buttons, remote control, RS232 commands, Mouse & keyboard

Product Usage Instructions

Front Panel

The front panel of the device has various buttons for control:

- IR: Receive signals from the remote control.
- Input Selection: Short press to select input on full screen, long press for loop out.
- View Modes: Quad-view, dual-view, etc.
- Scenes Recall: Recall preset layouts.
- Resolution: Switch output resolution.
- Power: Power on/off switch.
- USB Ports: Share external USB devices among input PCs.

Rear Panel

The rear panel of the device includes various interfaces:

- HDMI Inputs & Outputs: Interfaces for HDMI input and output with resolutions up to 4K60hz.
- USB Inputs: USB/BM input interfaces for connecting PCs and devices.

- Keyboard/Mouse: USB/AM interface for connecting keyboard or mouse for KVM control.

FAQ

How do I switch between different input sources?

You can switch between different input sources using the front panel buttons or the remote control provided with the device.

Introduction

The SD-MV-KM43 KVM Matrix with Multiviewer & Matrix Switch is designed to display multi video inputs anywhere & any size onto one or two displays. It features four HDMI inputs supporting up to 4K and 2 HDMI outputs with resolution up to 4K as well. It also provides a HDMI loop out for any one of 4 inputs and 1 analog output for audio processing. It is extremely flexible and seamless switching capable multiviewer making it perfect for applications such as broadcasting, security, boardroom, TV studio and so on.

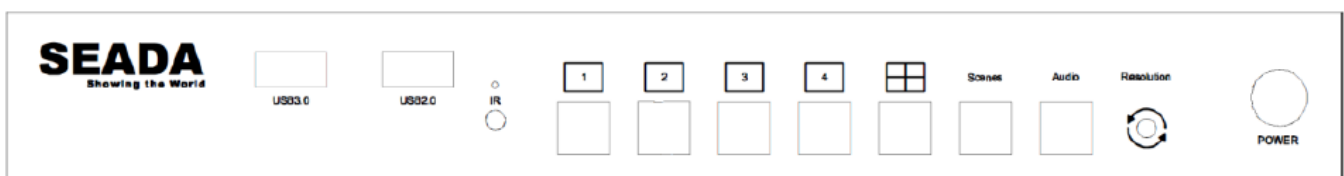
SD-MV-KM43 supports KVM for all 4 HDMI input signals. Customers can display all 4 PC signals onto signal monitor and KVM control them simultaneously or customer can display those 4 PC signals onto two monitors and use the 'move and switch' feature to control them which means that the very same set of keyboard & mouse can move freely between two screens when 2 HDMI outputs is set up as 1×2 KVM station. It supports access to external devices, such as printers, USB disk etc, and all external USB devices can be shared by all 4 PCs simultaneously.

Control is quick and comprehensive on SD-MV-KM43, it can be controlled using buttons at the front panel, the remote control, RS232 commands, or Mouse & keyboard directly.

Features

1. 4 x HDMI2.0 inputs and 2 x HDMI2.0 output with resolution up to 3840×2160@60Hz.
2. 1 x HDMI2.0 loop out, resolution up to 3840 x 2160@60Hz.
3. Support 4 in 2 out matrix switching
4. Support Multiview each screen with quad-view, triple view, dual-view and full view
5. All signal windows position and size can be adjusted arbitrarily.
6. 4 x PC USB/BM input, 2 x USB/AM mouse and keyboard input.
7. Support access to external USB devices by 4 PCs simultaneously.
8. 3 customized screen layouts save and recall.
9. PIP transparency setting, signals switching and scenes save/recall through mouse and keyboard.
10. Operate 4 computers at the same time by a set of mouse and keyboard.
11. 3.5mm stereo audio output for de-embedding.
12. Control by front panel buttons, IR remote control, Mouse & keyboard, RS232(Third party control)

Front Panel



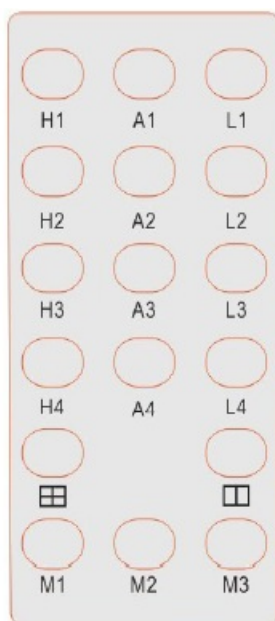
No.	Menu	Function
1	IR	Receive signals from the remote control.
2	1	Short press the button to select input 1 on full screen. Long press for 3 seconds to select input 1 as loop out.
3	2	Short press the button to select input 2 on full screen. Long press for 3 seconds to select input 2 as loop out.
4	3	Short press the button to select input 3 on full screen. Long press for 3 seconds to select input 3 as loop out
5	4	Short press the button to select input 4 on full screen. Long press for 3 seconds to select input 4 as loop out.
6		Quad-view mode for 2 duplicated outputs Dual-view mode for 2 different outputs
7	Scenes	Recall preset layoutss from M1, M2 and M3.
8	Audio	Switching audio output from 4 HDMI inputs.
9	Resolution	Press the button to switch output resolution.
10	Power	Power on/off switch.
11	USB	External USB device can be shared by 4 input PCs at the same time via these 2 USB ports.

Rear Panel



No.	Menu	Function
1	Input 1	HDMI input interface 1, resolution up to 4K60hz
2	Input 2	HDMI input interface 2, resolution up to 4K60hz
2	Input 3	HDMI input interface 3, resolution up to 4K60hz
4	Input 4	HDMI input interface 4, resolution up to 4K60hz
5	Output 1	HDMI output interface 1, resolution up to 4K60hz
6	Output 2	HDMI output interface 2, resolution up to 4K60hz
7	LOOP	HDMI loop out interface, resolution up to 4K60hz
8	USB 1	USB/BM input interface 1
9	USB 2	USB/BM input interface 2
10	USB 3	USB/BM input interface 3
11	USB 4	USB/BM input interface 4
12	Keyboard	Connect this USB/AM interface with keyboard or mouse for KVM control.
13	Mouse	Connect this USB/AM interface with keyboard or mouse for KVM control.
14	Audio	HDMI audio de-embedding output via this 3.5mm analog audio jack.
15	RS232	Third party central control via this RS232 interface.
16	DV12V	Power interface

Remote Control Operation



Button	Function
H1	Select input 1 on full screen display
H2	Select input 2 on full screen display
H3	Select input 3 on full screen display
H4	Select input 4 on full screen display
A1	Switch to audio of HDMI input 1
A2	Switch to audio of HDMI input 2
A3	Switch to audio of HDMI input 3
A4	Switch to audio of HDMI input 4
L1	Select input 1 as loop out
L2	Select input 2 as loop out
L3	Select input 3 as loop out
L4	Select input 4 as loop out
	Quad-view display for 2 duplicate outputs
	Dual-view display for 2 different outputs
M1	Recall preset mode 1
M2	Recall preset mode 2
M3	Recall preset mode 3

Mouse & Keyboard Operation

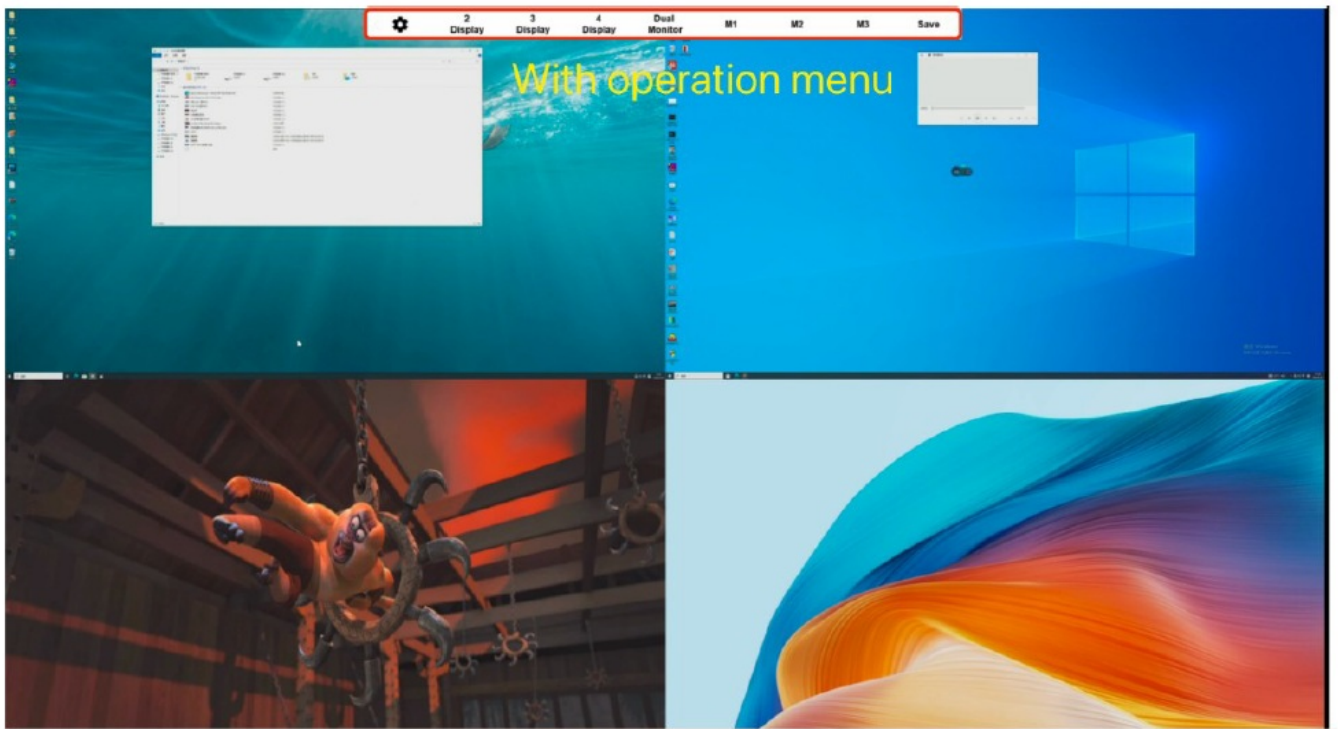


Mouse Wheel: By double-clicking the mouse wheel, you can switch between the functions of KVM and controlling the signal windows for Multiview and signal switching.

Input Signals Management

When the operation menu is shown on the top of the screen, the system is in the mode of signals management for Multiview and signal switching.

Users can manage the input signal window size, layout, signal switching, resolution adjustment, audio switching and so on.



Operation Menu

Signals Setup

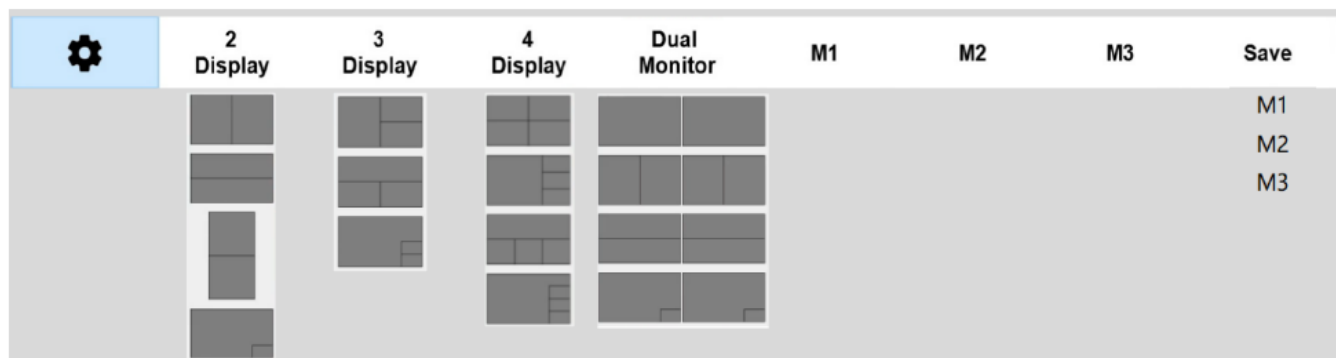
Users can set up the parameters of the device and signals in this section

Settings	2 Display	3 Display	4 Display	Dual Monitor	M1	M2	M3	Save
Resolution	>	4K60		Audio Out		Mouse		
Audio Out	>	<input checked="" type="radio"/> 4K30 FHD		<input checked="" type="radio"/> HDMI In 0 HDMI In 1 HDMI In 2 HDMI In 3		<input checked="" type="radio"/> Single Mouse Multiple Mouse		
PIP Blending	>	1920 x 1200 60Hz		PIP Blending				
Mouse	>	1920 x 1440 60Hz		<input checked="" type="radio"/> Level 0 Level 1 Level 2 Level 3 Level 4 Level 5				
Bypass Out	>	2048 x 1152 60Hz				Bypass Out		
		2560 x 1080 60Hz				<input checked="" type="radio"/> By Mouse HDMI In 0 HDMI In 1 HDMI In 2 HDMI In 3		
		2560 x 1440 60Hz					<input checked="" type="radio"/> HDMI In 0 HDMI In 1 HDMI In 2 HDMI In 3	
		2560 x 1600 60Hz						
		4096 x 2160 30Hz						
		4096 x 2160 60Hz						

Resolution	Select output resolution, there are 11 options.
Audio Out	Select audio output from HDMI input 1 to input 4.
PIP Blending	In PIP mode, using this menu to set the sub-window transparency. There are 6 options from level 0 to level 5.
Mouse	Switch between single mouse and multi-mouse mode. Single Mouse: Users can control any one of the computers across the screen. Multiple Mouse: Users can control 4 computers at the same time.
Bypass Out	Loop out setting. By Mouse: It will automatically loop out the computer signal that the mouse is controlling. HDMI In 0-4: To select the loop out from option HDMI input 1 to HDMI input 4(HDMI In 0 to HDMI In 3).
Signal Switch	Right click the mouse on any of the signal window to open the drop-down menu to select the required signal.
Signal in full display	In non-PIP mode, double-click the left mouse button on any window to make the current signal in full-screen. Double-click again to return to the original layout.
Signals location swap	In PIP mode, double clicking on the top layer window to swap location with the bottom layer window.

Signals Layout Setup

Users can set up the multiview layouts here. Users are able to customize the size and position of the signal windows and save it as preset layouts.



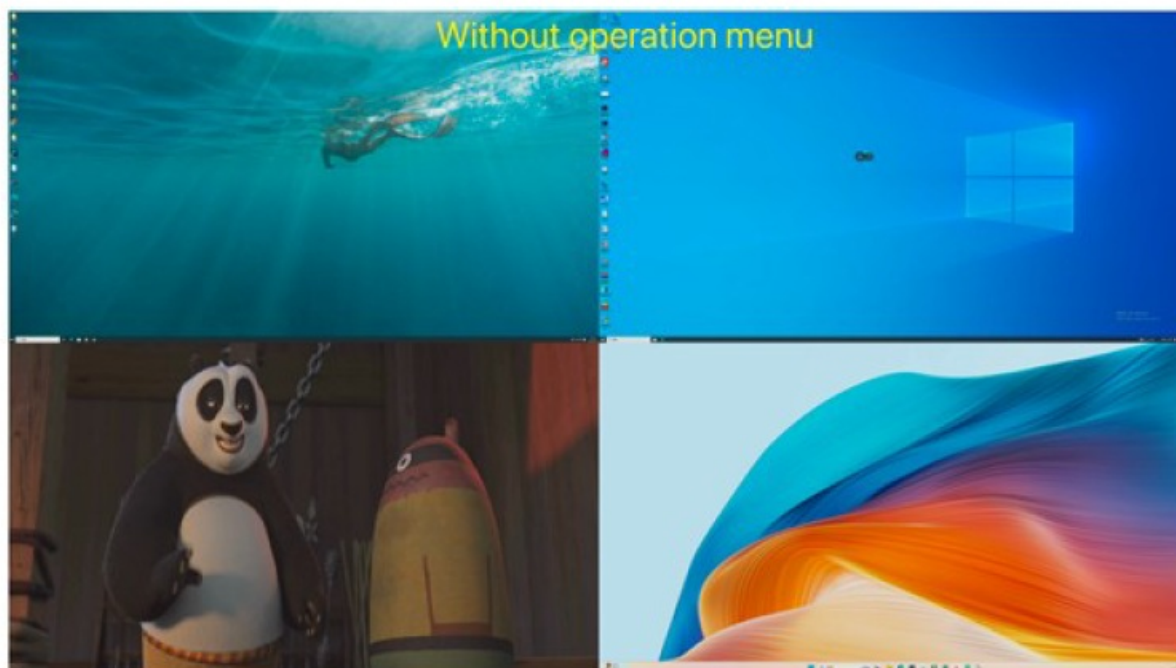
Duplicated outputs Users can customize the layouts and save them onto M1-M3	2 Display	Dual view display, there are 2 layouts
	3 Display	Triple view display, there are 3 layouts
	4 Display	Quad view display, there are 4 layouts
Dual Monitor (2 different outputs)		4 preset layouts, users can customize the layouts and save them onto M1-M3
M1		Recall Layout 1
M2		Recall Layout 2
M3		Recall Layout 3
Save (customize and save the preset layouts)	M1	Save Layout 1
	M2	Save Layout 2
	M3	Save Layout 3

KVM Signals Management

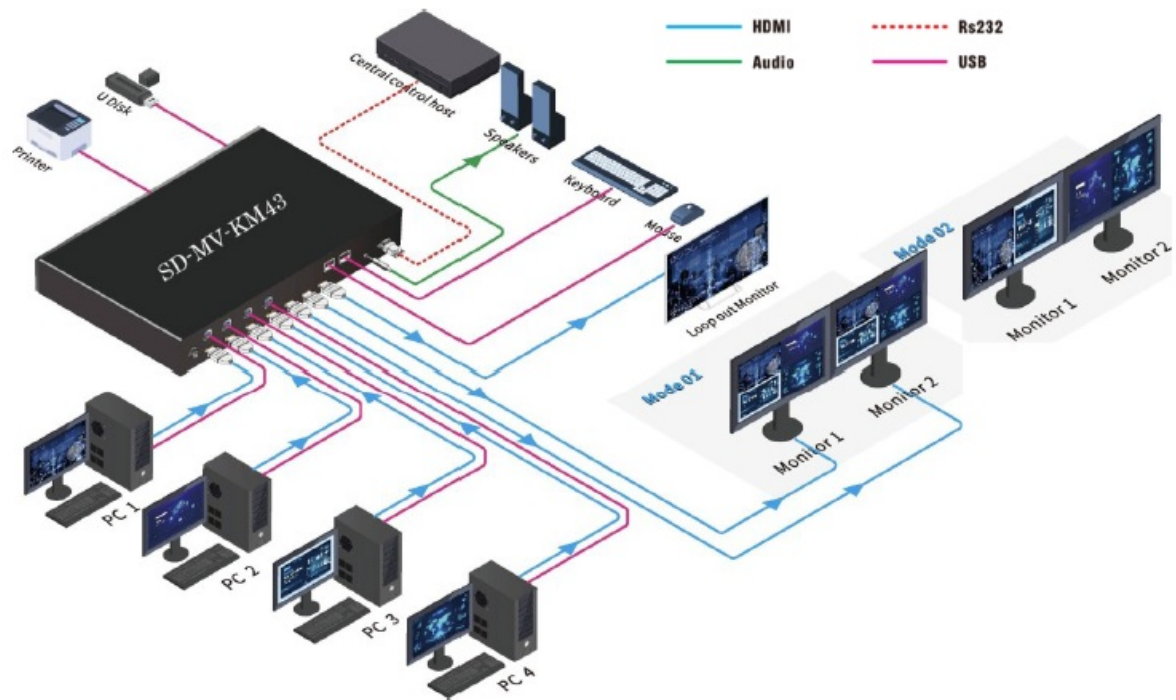
By double-clicking the mouse wheel to hide the Operation Menu to access the KVM mode. Users can manage up to 4 PCs on a single monitor or across two monitors

Single Monitor: Mouse can be moved freely between different PC windows and KVM control them

Dual Monitors: Mouse can be moved freely between these two monitors and control any of the PCs.



System Diagram



RS232 command

Communication protocol


Default baud rate: 115200 Data bit:8 Stop bit:1 Parity bit: None

Note: '<' and '>' in the following commands are sending characters, and the command ',' or ':' cannot be omitted. Please note the upper and lower case in the command.

RS232 command	Function	Remarks	Examples
<switch,video,0,in,out>	Signal switching	in: 0-3 correspond to input signal 1/2/3/4 out: 0-3 correspond to windows 1/2/3/4	Switch input signal 3 to window 2 <switch,video,0,2,1>
<switch,audio,0,in,out>	Audio switching	in: 0/1/2/3 correspond to input audio 1/2/3/4 out: 0	Switch the output audio to input 4 <switch,audio,0,3,0>
<switch,loop,0,in,out>	Loop out switching	: 0-4 out:2 in: 0 is to loop out the PC signal that the mouse is controlling automatically. in: 1-4 correspond to input 1-4	Loop out the input 3 <switch,loop,0,3,2>
<config,output,reso,0,fmrt>	Set output resolution	fmrt: 0-10 correspond to 11 resolutions in the menu: <ul style="list-style-type: none"> • 4K60, 4K30, FHD, 1920×1200@60Hz, • 1920×1440@60Hz, • 2048×1152@60Hz, • 2560×1080@60Hz, • 2560×1440@60Hz, • 2560×1600@60Hz, • 4096×2160@30Hz, • 4096×2160@60Hz 	Set the out resolution with 4K60 <config,output,reso,0,0>
<config,pip,blend,0,level>	Set PIP transparency	level:0-5 (available in PIP mode)	Set the PIP transparency to level 2

			<config,pip,blend,0,2>
<recall,display,0,wins,mode>	Set output display layout	wins:0-4 0: Dual-view for 2 different outs 1: full screen 2: Dual-view 3: Triple-view 4: Quadview mode: 0-4 correspond to modes 1-5 (the list as show below)	Setting the output display layout to quad-view with the 1st mode layout. <recall,display,0,4,0>
<save,scene,0,index>	Save Preset scene	index: 0-2 correspond to preset scene 1-3	Save Preset scene 2 <save,scene,0,1>
<load,scene,0,index>	Recall preset scene	index: 0-2 correspond to preset scene 1-3	Recall Preset scene 3 <load,scene,0,2>

Documents / Resources

	<p>SEADA SD-MV-KM43 4K60Hz KVM Matrix with Multiviewer and Matrix Switch [pdf] User Manual</p> <p>SD-MV-KM43 4K60Hz KVM Matrix with Multiviewer and Matrix Switch, SD-MV-KM43, 4K60Hz KVM Matrix with Multiviewer and Matrix Switch, KVM Matrix with Multiviewer and Matrix Switch, Matrix with Multiviewer and Matrix Switch, Multiviewer and Matrix Switch, Matrix Switch, Switch</p>
---	---

References

- [User Manual](#)

[Manuals+](#). [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.