

PS-5004MS

4-Port HDMI Quad-Viewer & Seamless KVM Switch with
USB 3.1 Gen 1 HUB & mouse roaming

User Manual

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Made in Taiwan

INTRODUCTION

The **PS-5004MS 4-Port HDMI Quad-Viewer & Seamless KVM Switch with USB 3.1 Gen 1 HUB & mouse roaming** provides the most flexible and cost-effective solution for multiple computer management at home and in the office. The KVM switch allows users to control four HDMI USB computers using a single set of console peripherals, including a keyboard, mouse, and monitor.

With a built-in USB 3.1 Gen 1 hub, users can easily share USB peripheral devices among connected computers. Plus, the KVM switch offers a range of dynamic video layouts, effortless switching in single-view mode, and an intuitive mouse roaming function — delivering a smooth and efficient multitasking experience.

FEATURES

- Supports input resolutions: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p, and 4K30
- Supports output resolutions: 720p@60, 1080p@60, and 4K30
- HDCP 1.4 compliant
- Supports 3 display modes: One View Mode, Quad View Mode, and Quad View Cycled Mode
- Supports seamless switching in One View Mode
- Supports mouse roaming
- Supports separate line input and output
- Plug and play — no drivers required
- Features a built-in 4-port USB 3.1 Gen 1 hub for sharing USB devices
- Supports independent HID keyboard and mouse ports
- Supports hotkeys
- Video bandwidth: 7.2 Gbps
- Firmware upgradable to support new features and technology enhancements
- Allows input switching via push buttons

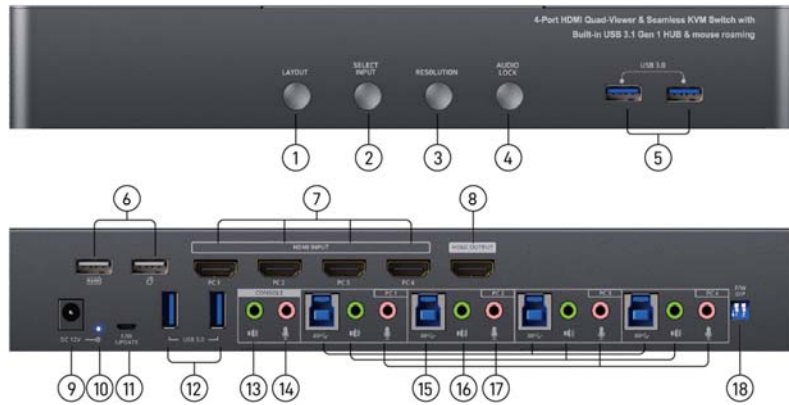
PACKAGE CONTENTS

- 1x PS-5004MS
- 1x DC 12V power supply
- 1x User Manual

SPECIFICATIONS

Model Name		PS-5004MS
Technical		
Role of usage		4-Port HDMI Quad-Viewer & Seamless KVM Switch
HDCP compliance		HDCP 1.4
Video bandwidth		HDMI [7.2Gbps]
Output Video Support		720p60/ 1080p60/ 4K30
Input Video Support		480i/480p/576i/576p/720p/1080i/1080p/4K30
Audio support		Bypass
ESD protection		Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge]
Input		4x HDMI/ 4x USB 3.1 Gen 1(type B)/ 5x 3.5mm phone jack
Output		1x HDMI/ 4x USB 3.1 Gen 1(type A)/ 2x USB 1.1(type A)/ 5x 3.5mm phone jack
HDMI connector		Type A [19-pin female]
USB connector		USB3.1 Gen 1 type A / type B
Mechanical		
Housing		Metal enclosure
Dimensions [L x W x H]	Model	282 x 112 x 37mm [11" x 4.4" x 1.5"]
	Package	331 x 162 x 204mm [1' x 6.4" x 8"]
	Carton	500 x 432 x 340mm [1'6" x 1'4" x 1'1"]
Weight	Model	930g [2 lbs]
	Package	2557g [5.6lbs]
Fixedness		1RU rack-mount with ears and Wall hanging holes
Power supply		12V DC
Power consumption		12 Watts [max]
Operation temperature		0~40°C [32~104°F]
Storage temperature		-20~60°C [-4~140°F]
Relative humidity		20~90% RH [no condensation]

PANEL DESCRIPTIONS

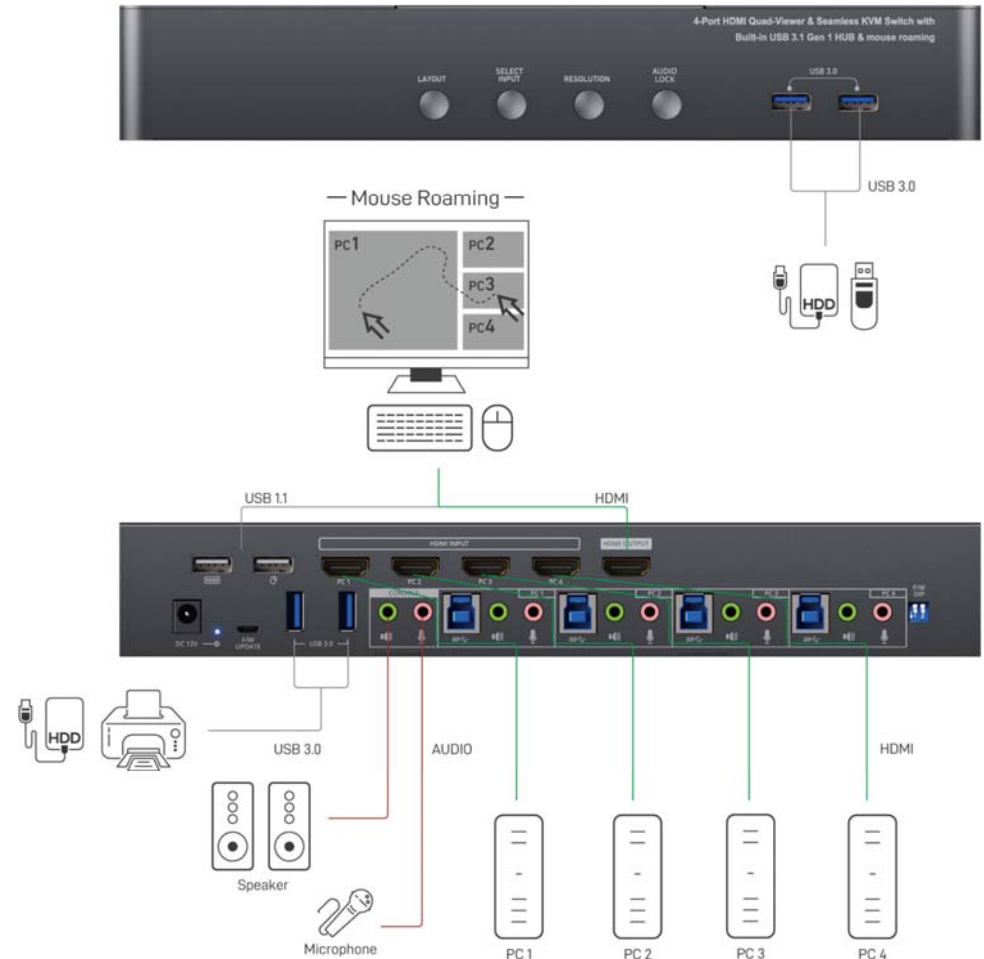


1. **Default Layout Button:** Switch 3 default layout modes (One View Mode, Quad View Mode, Quad View Cycled Mode)
2. **Input Selection Button:** Switch input source in selected layout mode
3. **Output Resolution Button:** Switch output resolution (4K30/1080P/720P)
4. **KVM Audio Lock:** Lock the selected PC stereo audio in/out to console
5. **USB 3.1 Gen 1 Hub:** Connect to USB devices
6. **Console USB Ports:** Connect to keyboard & mouse
7. **KVM Video IN 1-4 (HDMI IN 1-4):** Connect the HDMI cable to PC
8. **Console Video OUT (HDMI OUT):** Connect the HDMI cable to a display
9. **+12V DC:** +12V DC power jack
10. **Power Status:** Power indicator LED
11. **Micro USB:** For F/W update
12. **USB 3.1 Gen 1 Hub:** Connect to USB devices
13. **Console Stereo Audio OUT:** Connect to analog stereo audio speaker
14. **Console Stereo Audio IN:** Connect to analog stereo audio source
15. **KVM USB 3.0 (Type B):** Connect the USB cable to PC
16. **KVM Stereo Audio IN 1-4:** Connect the stereo cable to PC
17. **KVM Stereo Audio OUT 1-4:** Connect the stereo cable to PC
18. **2-Pin Dip Switch:** For F/W update

DIP Switch Position				Description
2-Pin				
PIN#1	PIN#2	ON [↓]	OFF [↑]	KVM Firmware Update mode
		OFF [↑]	ON [↓]	MCU Firmware Update mode/ Working mode*
		OFF [↑]	OFF [↑]	Reserved
		ON [↓]	ON [↓]	Reserved

* In this mode, after the device is power-cycled, the first three seconds are in firmware update mode, and after three seconds, it will switch to working mode.

CONNECTION DIAGRAM

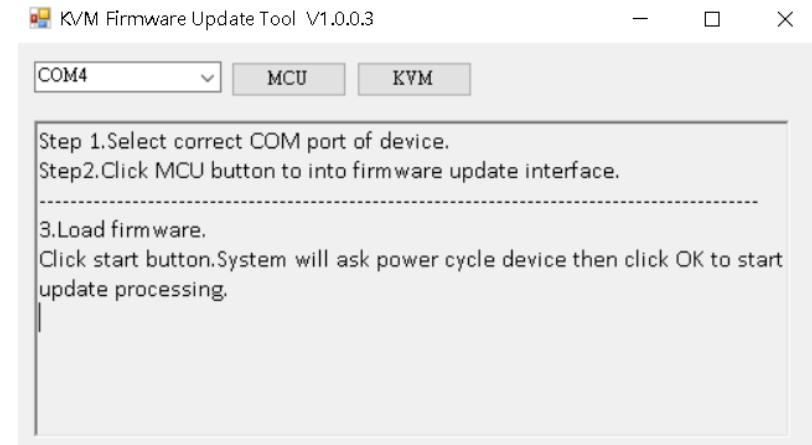


HOTKEY

Default setting, all of the following commands begin by pressing the [Scroll Lock] or [Ctrl] key twice. Please follow the hotkey command listed below for selected operating functions:

Hot key Definition	
[Scroll Lock] + [Scroll Lock] + [NUMBER1~4]	Switch input 1~4 source to output
[Scroll Lock] + [Scroll Lock] + [F1]	Quad view mode
[Scroll Lock] + [Scroll Lock] + [F2]	Quad view cycled mode
[Scroll Lock] + [Scroll Lock] + [A] + [Number 1~4]	Under quad view mode, select HDMI input 1~4 Audio to HDMI output
[Scroll Lock] + [Scroll Lock] + [L] + [A]	Audio Lock/ Audio Unlock
[Scroll Lock] + [Scroll Lock] + [L] + [U]	USB Lock/ USB Unlock
[Scroll Lock] + [Scroll Lock] + [O] + [F] + [F]	Turn off HOTKEY function
[Scroll Lock] + [Scroll Lock] + [O] + [N]	Turn on HOTKEY function

NOTICE



1. KVM F/W update

- Connect the USB to Micro-USB cable between the PC and the device.
- Set the dip switch [PIN#1, PIN#2] to [ON [↓], OFF [↑]], then power on the device.
- Open the firmware update software and select COM port.
- Click the "KVM" button to open the "KVM Firmware Update" window.
- Check "Runtime Code" and click the "..." button to load the file.
- Click the "Burn!" button to start the firmware update.
- After the update is complete, set the dip switch [PIN#1, PIN#2] to [OFF [↑], ON [↓]], then power cycle the device

2. MCU F/W update

- Connect the USB to Micro-USB cable between the PC and the device.
- Set the dip switch [Pin#1, PIN#2] to [OFF [↑], ON [↓]], then power on the device.
- Open the firmware update software and select COM port.
- Click the "MCU" button to open the "IAP_Programmer" window.
- Set the Port Type to "RS232."
- Click the "..." button to load the file.
- Select the RS232 Port Name, set the baud rate to "115200," and enter "08005000" in the App Start Address(0x).
- Power cycle the device, then within 3 seconds, click "Download" to start the update process.
- After the update is complete, please power cycle the device again.

WARRANTY

The SELLER warrants the **PS-5004MS 4-Port HDMI Quad-Viewer & Seamless KVM Switch with USB 3.1 Gen 1 HUB & mouse roaming** free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surge. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables and power adapters are limited to a 30 day warranty and must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. **Also, the technical information contained herein regarding the PS-5004MS features and specifications is subject to change without further notice.**