

# KanexPro®



**4X1 KVM Switch with HDMI/USB 3.0 & Quad Multiview**

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MPN# SW-4X1KVMMV

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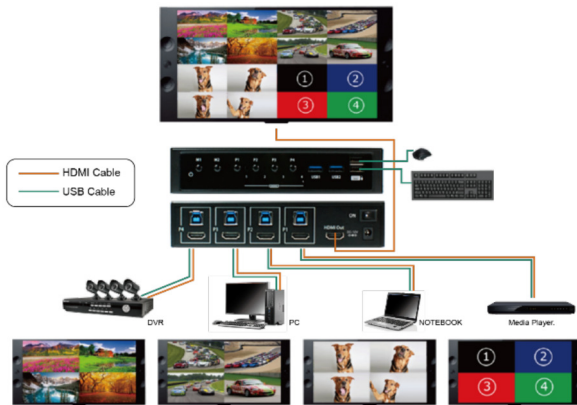
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## Introduction

You can control 4 host devices such as computers easily through independent HID keyboard and mouse ports. This device is capable to display 4 host device screens simultaneously on one TV monitor through HDMI. This device also supports USB3.0 for super speed data transfer. Please refer to the diagram below for the basic plug and play connections.



- Connect host device to desired HDMI port via HDMI cable
- Connect host device to the USB port above the HDMI port with supplied USB 3.0-A to USB 3.0 B cable

- HID keyboard and mouse are connected to the 2 assigned HID USB 2.0 ports on the front panel.

## Features

- Built-in 5 Gbps super speed USB3.0 transfer.
- Controls four HDMI USB host device with independent HID keyboard and mouse ports
- Compliant with HDMI 1.3 with resolutions up to 1080p60.
- HDMI seamless switch and lag free KVM control
- Supports both quad view display output and full screen display output.
- Controlled by front panel buttons, keyboard hotkeys and IR remote.
- High speed data transfer from source to individual computers
- Plug and play, no software or drivers required
- Solid industrial construction

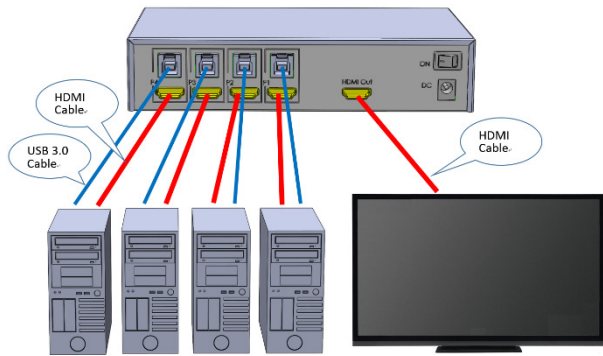
## Applications

1. Restaurants & Bars: Plays 4 TV programs on one screen.
2. Research & Development: Program development & testing running 4 computers simultaneously
3. Factory & Production: Showing four stations of testing in one monitor; saves time & space.
4. Instructing: The instructors can teach four students on the same time and show different films in one monitor.
5. Movie editing: Editing 4 different segments/videos at the same time on one TV. It makes cropping/transitioning more effortless.
6. Surveillance: Connecting 4 DVR/NVR at the same time. Showing 4 times more camera screens on one TV

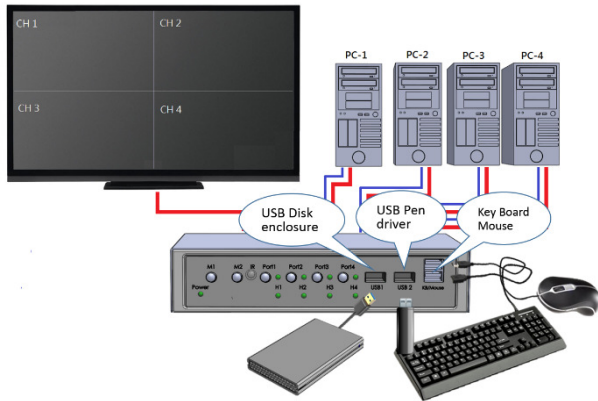
## Installation and Operation

There are two USB 3.0 super speed ports on the front panel for high speed data transfer. Users can connect USB 3.0/2.0/1.1 flash drives or disk enclosure for data/file transfer of up to 5Gbps.

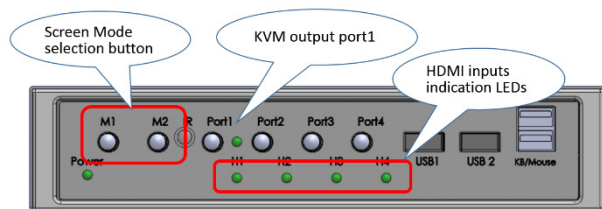
1. On the rear panel, connect USB 3.0 and HDMI cables to the USB 3.0 and HDMI ports on each computer or device.



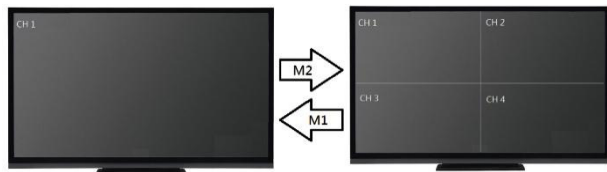
2. On the front panel, adjacent to the keyboard & mouse ports; USB flash drives or disk enclosures can be connected to the USB 3.0 ports.



3. When powered on, the default screen mode is on quad view, and the KVM output is on port 1.
  - HDMI input LEDs turns on when the adjacent computer or device is also powered on.
  - Port selection LED indicates current KVM output port. Only one LED will be on.

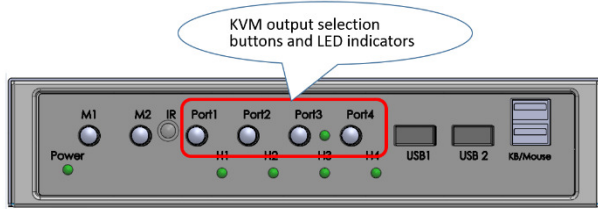


4. Users can change the screen layout between “Full screen” and “Quad view” by pressing M1 and M2 button on the front panel or remote control.

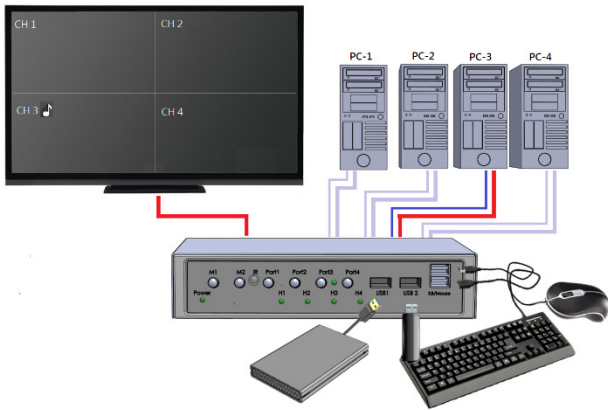


5. Users can change the KVM output port by pressing port selection button (P1, P2, P3, P4) on the front panel or remote control. The LED of the selected port will be turn on. A music symbol “♪” will show on the screen corresponding to that computer or device.





6. The KVM will switch keyboard, mouse and USB disk connection to the selected computer. Users can operate the selected computer via all the devices connected on the front panel as they are connected to the computer directly.



## Specification

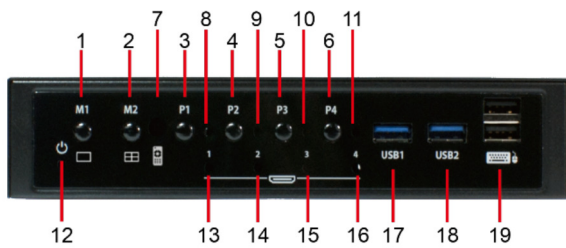
Hardware		
Model Name		Quad HDMI 1080p/60fps Seamless Multiviewer with USB 3.0 KVM
HDMI	In	HDMI 1.3 compliant, 1080p60 Video
	Out	HDMI 1.3 compliant, 1080p60 Video
USB	Upstream	5Gbps super speed USB3.0
	Downstream	5Gbps super speed USB3.0
	HID	Keyboard, Mouse
Control		Front Panel Buttons, Keyboard Hotkey, IR Remote
Material		Full Metal
Dimension		185*106*40mm
Performance		
Video Process		Resolution up to 1080p60, 24/30bit RGB/YPbPr 4:4:4
Audio Stream		Sample rate 32~192KHz, 16~24bits
LED Indicator		4 x HDMI input, 4 x HDMI/USB output, 1 System Ready indicator
Power Consumption		
Power input		12V
Consumption		8.4W, without USB 3.0 downstream
Package Contents		
Enclosure		SW-4X1KVMMV
IR Remote		Yes (without battery included/CR2032)
User Guide		Yes
Power adapter		Universal, 12V/2A
Cable		USB3.0 Cable x3, HDMI Cable x 1
Agency Approvals		
CE/FCC		Certified
ROHS		Compliant

## System Requirement

- Host device with USB3.0 for the maximum speed of up to 5Gbps or USB2.0 for normal speed.
- Host device with HDMI port.
- Display device equipped with an HDMI port and 1080p60 resolution.
- Supported USB keyboard and USB mouse.

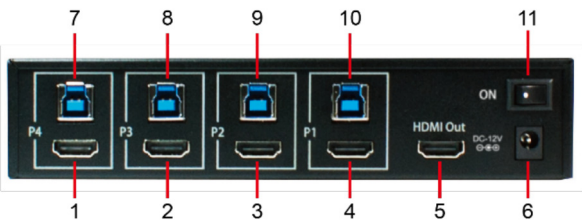
## Hardware Layout

### Front Panel



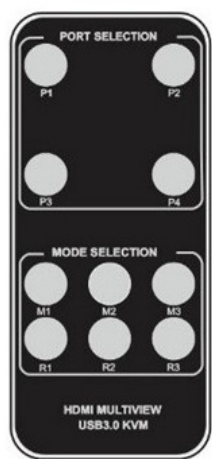
No	Function		Description
1	Mode	M1	Press to select full screen mode
2	Select	M2	Press to select quad view mode
3	Port Select	P1	Press to select HDMI port 1 and USB upstream port 1
4		P2	Press to select HDMI port 2 and USB upstream port 2
5		P3	Press to select HDMI port 3 and USB upstream port 3
6		P4	Press to select HDMI port 4 and USB upstream port 4
7	IR Receiver		Receives signal from IR remote
8	USB HDMI Output port LED Indicator	HDMI/USB Upstream Port 1	LED on when HDMI/USB Port 1 outputs
9		HDMI/USB Upstream Port 2	LED on when HDMI/USB Port 2 outputs
10		HDMI/USB Upstream Port 3	LED on when HDMI/USB Port 3 outputs
11		HDMI/USB Upstream Port 4	LED on when HDMI/USB Port 4 outputs
12	Power Indicator		LED on when system ready.
13	HDMI Inserted LED Indicator	HDMI port 1	LED on when HDMI source is connected to the port.
14		HDMI port 2	LED on when HDMI source is connected to the port.
15		HDMI port 3	LED on when HDMI source is connected to the port.
16		HDMI port 4	LED on when HDMI source is connected to the port.
17	USB 3.0 Port	USB3.0 Port 1	USB 3.0 Downstream Port 1
18		USB 3.0 Port 2	USB 3.0 Downstream Port 2
19	USB HID Port		Only for Keyboard and Mouse

Rear Panel



No	Function		Description
1	HDMI Input	P4	HDMI input port 4
2		P3	HDMI input port 3
3		P2	HDMI input port 2
4		P1	HDMI input port 1
5	HDMI output		HDMI output
6	DC input		Connect to 12V/2A power supply
7	USB 3.0 Upstream Port	USB 3.0 Port 4	USB 3.0 Downstream Port 4
8		USB 3.0 Port 3	USB 3.0 Downstream Port 3
9		USB 3.0 Port 2	USB 3.0 Downstream Port 2
10		USB 3.0 Port 1	USB 3.0 Downstream Port 1
11	Power switch		Power ON/OFF of device

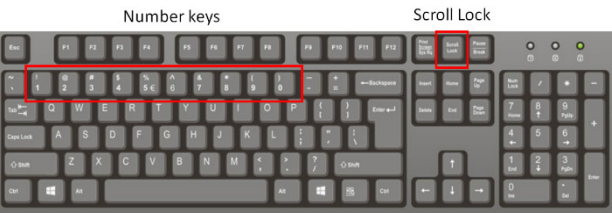
IR Remote



Key	Port Selection	Description
P1	HDMI/USB Output port Selection	HDMI/USB Port 1 outputs
P2		HDMI/USB Port 2 outputs
P3		HDMI/USB Port 3 outputs
P4		HDMI/USB Port 4 outputs
	MODE Selection	
M1	Screen Display mode selection	Select full screen mode
M2		Select quad view mode
M3		N/A
R1	Reserved for future use	N/A
R2		N/A
R3		N/A

# Keyboard Hotkey Command

Ensure the keyboard is plug into USB HID port in front panel.



No	Enable Hotkey	Number key	Description
1	Press scroll lock twice	1	Press to select HDMI port 1 and USB upstream port 1
2		2	Press to select HDMI port 2 and USB upstream port 2
3		3	Press to select HDMI port 3 and USB upstream port 3
4		4	Press to select HDMI port 4 and USB upstream port 4
5		5	Press to select full screen mode
6		6	Press to select quad view mode

Keyboard Hotkey Command: Enable Hotkey + Number key

For example, if you want to use hotkey commands to operate this device to display the quad view mode:

⇒ Press scroll lock key twice and then press 6.

**Package Contents**

1. SW-4X1KVMMV x 1
2. Power adapter 12V/2A x 1
3. USB 3.0 A to B cable 1M x 4
4. HDMI cable 1M x 1
5. Remote controller x 1
6. User Guide x 1



## **10. After-sales Service**

If problems arise when operating the device, please refer to this user manual. Any transport costs are borne by the users during the warranty.

**1. Product Limited Warranty:** We warrant that products will be free from defects in materials and workmanship for three years, which starts from the first day the product exits warehouse. (Make note of the serial number on the product) Proof of purchase in the form of a bill of sale or receipted invoice **MUST** be presented to obtain warranty service.

### **2. What the warranty does not cover:**

- Warranty expiration.
- Factory applied serial number has been altered or removed from the product.
- Damage, deterioration or malfunction caused by:
- Normal wear and tear
- Use of supplies or parts not meeting our specifications
- No certificate or invoice as the proof of warranty.
- The product model showed on the warranty card does not match with the  
model of the product for repairing or had been altered.
- Damage caused by force majeure.
- Servicing not authorized
- Any other causes which does not relate to a product defect

- Delivery, installation or labor charges for installation or setup of the product

**3. Technical Support:** Email or call our after-sales department if there are any problems or any unanswered questions. Please inform us the following information

about your cases:

- Product version and name.
- Detailed failure situations.

**Remarks:** For any questions or troubleshooting please contact your local distributor or email [support@kanexpro.com](mailto:support@kanexpro.com) /call 888-975-1368

## **11. Warranty**

### **A. LIMITED WARRANTY**

KanexPro™ warrants that (a) its products (the "Product") will perform greatly in agreement with the accompanying written materials for a period of 36 months (3 full years) from the date of receipt and (b) that the product will be free from defects in materials and workmanship under normal use and service for a period of 3 years.

### **B. CUSTOMER REMEDIES**

KanexPro's entire liability and Customer's exclusive remedy shall be, at KanexPro option, either return of the price paid for the product, or repair or replacement of the Product that does not meet this Limited Warranty and which is returned to KanexPro with a copy of customers' receipt. This Limited Warranty is void if failure of the Product has resulted from accident, abuse, or misapplication. Any replacement Product will be warranted for the remainder of the original warranty period of 3 years, whichever is longer.

### **C. NO OTHER WARRANTIES**

To the maximum extent permitted by applicable law, KanexPro disclaims all other warranties, either express or implied, including, but not limited to implied warranties of merchantability and fitness for a purpose, regarding the product and any related written materials. This limited warranty gives customers specific legal rights. Customers may have other rights depending on the jurisdiction.

### **D. NO LIABILITY FOR DAMAGES**

To the maximum extent permitted by applicable law, in no event shall KanexPro be liable for any damages whatsoever (including without limitation, special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss) arising out of the use of or inability to use this product, even if KanexPro has been advised of the possibility of such damages

# KanexPro™

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[www.kanexpro.com](http://www.kanexpro.com)