

HDMI USB KVM 4*1 切换器

使用说明书

一、产品简介

HDMI 4 口 KVM 切换器能将四组高清视频源和 USB 接口实现四选一自由、同步切换, 支持 EDID/HDCP 自适应功能, 能够适应多种复杂的应用环境. 该设备拥有卓越的图片处理和传输能力, 使输出信号更加流畅和稳定, 是一种可靠、高性能、高效的 HDMI USB 切换方式.

二、主要特性

- ※ 把4路高清视频源 USB 接口实现四选一自由、同步切换;
- ※ 高清视频信号分辨率最高可达到 3840*2160@30Hz;
- ※ 符合 HDMI 1.4 标准;
- ※ 自动适配 EDID/HDCP 解密, 能够适应多种复杂的应用环境;
- ※ 可以连接的 USB 设备如: USB 鼠标、键盘;
- ※ 可以通过按键方式、遥控器方式和主机按键方式切换, 方便快捷;
- ※ 符合 HDCP 1.4 标准 – 高带宽数字内容保护技术;
- ※ 能够自动识别和配置各种显示模式;
- ※ 内置自动均衡系统, 画面流畅, 清晰, 稳定;
- ※ 内置 ESD 静电保护电路, 全方位保护系统安全;
- ※ 安装简单方便, 即插即用, 无需设置;

三、设备清单:

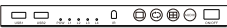
- ※ HDMI KVM4*1 切换器主机 1 台
- ※ 电源适配器 1 个
- ※ 使用说明书 1 份
- ※ USB线 4 条

四、技术参数

参数名称	详细说明
支持协议	HDMI 1.4 ;HDCP 1.3
像素带宽	340MHz, 全数字
接口带宽	总带宽 10.2Gbps
最大支持分辨率	3840*2160@30Hz
接口类型	HDMI-A 接口
阻抗	100Ω
建议 HDMI 最大输入/输出距离	小于 5 米, 在 1920X1080@60Hz 时 小于 3米, 3840X2160@30Hz时
接口协议	USB2.0
PC 输入接口类型	USB-B
输出接口类型	USB-A
电源	电源适配器: DC 5V
最大功耗	MAX 3W
温度	工作温度: -5℃ ~ +70℃
湿度	工作湿度: 5% ~ 90%
外形尺寸	205*92*20 mm

五、接口说明

版本1



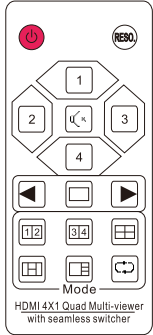
版本2



端口	功能描述	端口	功能描述
USB1/USB2	USB键盘鼠标连接口	IR	红外遥控信号接收窗口
POW	电源指示灯	□	单画面切换按键
L1	PC1组HDMI/USB信号输入指示灯	□	分屏模式切换按键
L2	PC2组HDMI/USB信号输入指示灯	□	四分屏模式切换按键
L3	PC3组HDMI/USB信号输入指示灯	□	声音切换按键
L4	PC4组HDMI/USB信号输入指示灯	□	电源开关

端口	功能描述
1	5V直流电源输入
2	HDMI1、HDMI2、HDMI3、HDMI4电脑HDMI信号输入
3	HDMI信号输出, 连接电视机或显示器
4	PC1、PC2、PC3、PC4电脑USB输入

红外遥控器



- 按钮, 电源打开或关闭, 对应指示灯亮起。
- 按钮, 输出分辨率切换1080p、720p、4K。
- 该按钮是输出通道, 信号快速选择切换键, 按对应数字直接切换到对应通道。
- 通过音频输出或静音。
- “o”按钮进入无缝切换模式
- “◀”按钮无缝切换向上一个信号源选择
- “▶”按钮无缝切换向下一个信号源选择
- 按钮进入1-2输入分割模式
- 按钮进入3-4输入分割模式
- 按钮进入4输入分割模式

六、热键切换

1:切换功能:
Scroll/*+5 //按着小键盘的“*”或者“Scroll”不放, 再按“5”时就立马切换到画面四分屏;
Scroll/*+6 //按着小键盘的“*”或者“Scroll”不放, 再按“6”时就立马切换到1大3小, 1为大画面;
Scroll/*+7 //按着小键盘的“*”或者“Scroll”不放, 再按“7”时就立马切换到1大3小, 2为大画面;
Scroll/*+8 //按着小键盘的“*”或者“Scroll”不放, 再按“8”时就立马切换到1大3小, 3为大画面;
Scroll/*+9 //按着小键盘的“*”或者“Scroll”不放, 再按“9”时就立马切换到1大3小, 4为大画面;

此时可开启PC1、PC2、PC3、PC4的鼠标键盘切换、同步、漫游
Scroll/*+0 //按*或者Scroll+0打开同步功能, 再按*或者Scroll+0就关闭同步功能, 并来回切换
Scroll/*+1 //按着小键盘的“*”或者“Scroll”不放, 再按“1”时就立马键盘鼠标切换到PC1;
Scroll/*+2 //按着小键盘的“*”或者“Scroll”不放, 再按“2”时就立马键盘鼠标切换到PC2;
Scroll/*+3 //按着小键盘的“*”或者“Scroll”不放, 再按“3”时就立马键盘鼠标切换到PC3;
Scroll/*+4 //按着小键盘的“*”或者“Scroll”不放, 再按“4”时就立马键盘鼠标切换到PC4;
此时画面不切换, 仅切换键盘鼠标, 该功能在画面为四窗口时, 使用最佳。
Scroll/*+F1 //按着小键盘的“*”或者“Scroll”不放, 再按“F1”时就立马键盘鼠标画面切换到PC1大画面;
Scroll/*+F2 //按着小键盘的“*”或者“Scroll”不放, 再按“F2”时就立马键盘鼠标画面切换到PC2大画面;
Scroll/*+F3 //按着小键盘的“*”或者“Scroll”不放, 再按“F3”时就立马键盘鼠标画面切换到PC3大画面;
Scroll/*+F4 //按着小键盘的“*”或者“Scroll”不放, 再按“F4”时就立马键盘鼠标画面切换到PC4大画面;
此时键盘鼠标画面是同时的;
Scroll/*+F5 //按着小键盘的“*”或者“Scroll”不放, 再按“F5”时就立马画面切换到PC1、PC2画面左右分屏模式;
此时可开启PC1、PC2的鼠标键盘切换、同步、漫游
Scroll/*+F6 //按着小键盘的“*”或者“Scroll”不放, 再按“F6”时就立马画面切换到PC3、PC4画面左右分屏模式;
此时可开启PC3、PC4的鼠标键盘切换、同步、漫游
Scroll/*+F7 //按着小键盘的“*”或者“Scroll”不放, 再按“F7”时就立马切换到PC1声音;
Scroll/*+F8 //按着小键盘的“*”或者“Scroll”不放, 再按“F8”时就立马切换到PC2声音;
Scroll/*+F9 //按着小键盘的“*”或者“Scroll”不放, 再按“F9”时就立马切换到PC3声音;
Scroll/*+F10 //按着小键盘的“*”或者“Scroll”不放, 再按“F10”时就立马切换到PC4声音;
Scroll/*+F11 //按着小键盘的“*”或者“Scroll”不放, 再按“F11”时就立马切换到声音静音;
Scroll/*+F12 //按着小键盘的“*”或者“Scroll”不放, 再按“F12”时就立马切换到恢复出厂设置;
此时所有设置的热键功能取消, 键盘鼠标默认在PC1、画面恢复到四分分割
Scroll/*+0 (字母的0不是数字0) //交叉漫游和随意漫游。鼠标漫游离开当前PC时, PC的鼠标光标隐藏
2.连击功能
Scroll+a~z //设定某个键有连发功能: //如:设置a为连发键后, 按一下后, 无限连发。
(注: 带有热键功能的按键无法做连发功能, 如果Scroll+s表示开启/关闭漫游功能而不是连击功能)
Scroll+Esc //全部取消连发键的功能。

比如: scroll+a 设定键盘a键有连击功能:

比如: scroll+a, scroll+b, scroll+c 同时设定a, b, c 这三个键有连击功能, 当执行scroll+ESC时就同时取消a, b, c键的连击功能。

穿越状态下 例如 设置A为连发键后, 在第一台电脑上按住A键不放; 鼠标移动到第二台电脑后, 第一台电脑的A键一直在发命令5. 同步模式
1) 先Scroll/*+0, 进入同步模式;
2) 小键盘的“加号”键+1~4, 添加一路进同步模式;
3) 小键盘的“减号”键+1~4, 这一路退出同步模式。

3. 上行口的4个LED, 插上对应的usb线才亮。如: PC1的usb接上时LED1的灯亮, 再按PC2的usb线时LED2灯亮, 其它如果PC3、PC4没接的话那么LED3、LED4就不亮。

注意事项:
1. 建议使用普通办公鼠标键盘, 一些高端鼠标键盘, 带多媒体, 机械键盘等, 可能会出现不能识别或冲突的情况。
2. 初次连接, 先连接鼠标键盘再连接PC, 连接完成后, 根据电脑配置不同, 需要等待几秒至2分钟不等。

HDMI USB KVM 4*1 SWITCH

USER MANUAL

Introduction

The HDMI4-port KVM switch can switch four sets of high-definition video sources and USB signals freely and synchronously.Support EDID/HDCP adaptive function, can adapt to a variety of complex application environments. The device has excellent image processing and The transmission capacity makes the output signal more smooth and stable, and it is a reliable, high-performance and efficient HDMI-USB switching method.

Features

The 4-channel high-definition video source USB interface can be selected from four, free and synchronous switching;
HD video signal resolution can reach up to 3840*2160@30Hz;
Compliant with HDMI 1.4 standard;
Automatically adapt to EDID/HDCP decryption, and can adapt to a variety of complex application environments;
USB devices that can be connected such as: USB mouse, keyboard;
It can be switched by hot key mode, remote control mode and host key mode, which is convenient and quick; it complies with HDCP 1.4 standard - high-bandwidth digital content protection technology;
it can automatically identify and configure various display modes;
Built-in automatic equalization system, the picture is smooth, clear and stable;
Built-in ESD electrostatic protection circuit, all-round protection system safety; simple and convenient installation, plug and play, no need to set up;

Package list

- HDMIKVM4*1 switch host 1 set
- Power adapter 1PCS
- User manual 1PCS
- USB cables 4PCS

Specifications

Parameter	Description
Standards	HDMI 1.4; HDCP 1.3
Maximum pixel clock	340MHz
Maximum data rate	10Gbps
Resolution range	Up to 4Kx2K@30Hz, 1920*1080@60Hz
Connector	HDMI-A Interface
Impedance	100Ω
HDMI Cable Range	<5M (Resolution: 1920*1080@60Hz)
Interface protocols	USB2.0
PC input interface type	USB-B
Output interface type	USB-A
Power supply	The power adapter: DC 5V
Power dissipation	MAX 3W
Temperature	Operating: -5℃ ~+ 70℃
Humidity	Operating: 5% ~90%
Dimension	205*92*20mm

Panel

Mode : 1

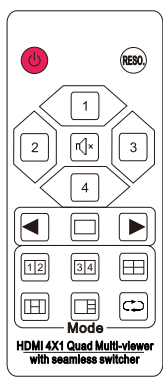


Mode: 2



USB1/USB2:USB keyboard and mouse connector
POW:Power indicator
L1:PC1 group HDMI/USB signal input indicator
L2:PC2 group HDMI/USB signal input indicator
L3:PC3 group HDMI/USB signal input indicator
L4:PC4 group HDMI/USB signal input indicator
IR:infrared remote control signal receiving window
□ :Single screen switch button
□ :Split screen mode switch button
□ :Quadruple screen mode switch button
AUDIO:Sound switch button
ON/OFF:Power switch
1)5V DC power input
2)HDMI1/HDMI2/HDMI3/HDMI4 computer HDMI signal input
3)HDMI signal output, connect TV or monitor
4)PC1/PC2/PC3/PC4 computer USB input

Infrared remote control



- Press to enter 4 input 1 large 3 small split mode, you can cycle in the following four modes.
- Press to cycle through the following split modes :

Hotkey switch

Scroll/*+5 //Press and hold “*” or “Scroll” on the keypad, and then press “5” to immediately switch to four screen divisions;
Scroll/*+6 //Press and hold “*” or “Scroll” on the keypad, and then press “6”, it will immediately switch to 1 large and 3 small, and 1 is the large screen;
Scroll/*+7 //Press and hold “*” or “Scroll” on the keypad, and then press “7”, it will immediately switch to 1 large and 3 small, and 2 is a large screen;
Scroll/*+8 //Press and hold “*” or “Scroll” on the keypad, and then press “8”, it will immediately switch to 1 big and 3 small, and 3 is the big picture;
Scroll/*+9 //Press and hold “*” or “Scroll” on the keypad, and then press “9”,

it will immediately switch to 1 big and 3 small, and 4 is the big picture;
At this time, the mouse and keyboard switching, synchronization, and roaming of PC1, PC2, PC3, and PC4 can be enabled.

Scroll/*+0 //Press * or Scroll+0 to turn on the synchronization function, then press * or Scroll+0 to turn off the synchronization function, switch on and off.
Scroll/*+1 //Press and hold “*” or “Scroll” on the keypad, and then press “1” to switch the keyboard and mouse to PC1 immediately;
Scroll/*+2 //Press and hold “*” or “Scroll” on the keypad, and then press “2” to switch the keyboard and mouse to PC2 immediately;
Scroll/*+3 //Press and hold “*” or “Scroll” on the keypad, and then press “3” to switch the keyboard and mouse to PC3 immediately;
Scroll/*+4 //Press and hold “*” or “Scroll” on the keypad, and then press “4” to switch the keyboard and mouse to PC4 immediately;
At this time, the screen does not switch, only the keyboard and mouse are switched. This function is best used when the screen is four windows.
Scroll/*+F1 //Press and hold “*” or “Scroll” on the keypad, and then press “F1”, the keyboard and mouse screen will immediately switch to the PC1 large screen;
Scroll/*+F2 //Press and hold “*” or “Scroll” on the keypad, and then press “F2”, the keyboard and mouse screen will immediately switch to the PC2 large screen;
Scroll/*+F3 //Press and hold “*” or “Scroll” on the keypad, and then press “F3”, the keyboard and mouse screen will immediately switch to the PC3 large screen;
Scroll/*+F4 //Press and hold “*” or “Scroll” on the keypad, and then press “F4”, the keyboard and mouse screen will immediately switch to the PC4 large screen;
At this time, the keyboard and mouse screens are at the same time.
Scroll/*+F5 //Press and hold “*” or “Scroll” on the keypad, and then press “F5”, the screen will immediately switch to the left and right split screen mode of PC1 and PC2;
At this time, the mouse and keyboard switching, synchronization and roaming of PC1 and PC2 can be enabled.
Scroll/*+F6 //Press and hold “*” or “Scroll” on the keypad, and then press “F6”, the screen will immediately switch to the left and right split screen mode of PC3 and PC4;
At this time, the mouse and keyboard switching, synchronization and roaming of PC3 and PC4 can be turned on.
Scroll/*+F7 //Press and hold “*” or “Scroll” on the keypad, and then press “F7” to switch to PC1 sound immediately;
Scroll/*+F8 //Press and hold “*” or “Scroll” on the keypad, and then press “F8” to switch to PC2 sound immediately;
Scroll/*+F9 //Press and hold “*” or “Scroll” on the keypad, and then press “F9” to switch to PC3 sound immediately;
Scroll/*+F10 //Press and hold “*” or “Scroll” on the keypad, and then press “F10” to switch to PC4 sound immediately;
Scroll/*+F11 //Press and hold “*” or “Scroll” on the keypad, and then press “F11” to switch to mute sound immediately;

Scroll/*+F12 //Press and hold “*” or “Scroll” on the keypad, and then press “F12” to switch to factory reset immediately;
At this time, all the set hotkey functions are cancelled, the keyboard and mouse are defaulted to PC1, and the screen is restored to four divisions.

Scroll/*+O (the letter O is not a number 0) //Cross roaming and random roaming. When the mouse roams away from the current PC, the PC’s mouse cursor is hidden.

Combo function

Scroll+a~z //Set a certain key to have the burst function; //For example: after setting a as the burst button, press a once, and the burst will be infinite. (Note:The button with the hotkey function cannot do the burst function, if Scroll+s means to open/close the roaming function instead of the combo function)
Scroll+Esc //All cancel the function of the burst key.

For example: scroll+a sets the keyboard a key to have a combo function;
For example: scroll+a, scroll+b, scroll+c simultaneously set the three keys a, b, c to have a combo function,
When scroll+ESC is executed, the combo function of the a, b, and c keys is canceled at the same time.

In the crossing state, for example, after setting A as the burst key, press and hold the A key on the first computer; move the mouse to the After the second computer, the A key of the first computer has been sending commands 5. Sync mode
1) Scroll/*+0 first, enter the synchronization mode;
2) The “plus” key of the keypad +1~4, add all the way forward synchronization mode;
3) The “minus” key of the keypad +1~4, this way exits the synchronization mode.
3. The 4 LEDs of the upstream port will be on when the corresponding usb cable is plugged in. For example, when the USB cable of PC1 is connected, the LED1 lamp will be on, and the LED2 lamp will be on when the USB cable of PC2 is connected. If the other ones are not connected to PC3 and PC4, then LED3, LED4 does not light up.

Precautions:

- It is recommended to use ordinary office mouse and keyboard, some high-end mouse and keyboard, with multimedia, mechanical keyboard, etc., may not recognize or conflict.
- For the first connection, connect the mouse and keyboard first and then connect to the PC. After the connection is completed, depending on the computer configuration, you need to wait a few seconds to 2 minutes.