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4 IN 2 OUT
4K HDMI SEAMLESS AUTO KVM SWITCH

USER MANUAL

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Introduction

This 4 in 2 out 4K HDMI® Seamless Switch supports connecting 4 HDMI® input sources and sharing them into 2 HDMI® output monitors. The newest mouse multi-dimension switch, can allow you to seamlessly switch the screen vertically or horizontally with your mouse movement. The source devices are able to be exchanged on OUT1 and OUT2. Supports 4K high resolution and also built with 9 backup choices. The 3.5mm output port can transfer high-quality audio. The light indicator tells the active working input. Supports switching by mouse switch, panel button, IR remote, keyboard hotkey and serial command within 1 second. Keyboard and mouse must be plugged into corresponding interfaces. USB 2.0/ USB 3.0 hub is always on-live on OUT1 and auto- scan on OUT2 (scan interval can be set from 1 to 999 seconds), is a perfect solution for office, teaching, server room, meeting and other situations.

Features

- 4 HDMI® input and 2 HDMI® output
- Support Audio extractor (Mute or On)
- USB hub supports multiple data solution
- Light indicator for working status checking
- Seamless switch without lag or black screen
- Support source exchange on OUT1 and OUT2
- Support max 3840x2160@30Hz, 9 choices available
- Support auto scan input source and output privilege
- Compatible with WINDOWS series, Linux, Mac...
- Support Mouse multi-dimension switch, beep sound function
- Switching by mouse, panel button, IR remote, keyboard hotkey and serial command

Packing List

4 in 2 out HDMI® KVM Switch x1

DC 12V Power Adapter x1

IR Remote Control x1

Phoenix terminal x1

5ft USB 3.0 Cable x4

User Manual x1

Panel Diagram

Front Panel

Label	Name	Description
TRG	PIN	T:TX Transmitter
		R:RX Receiver
		G:GND Ground
IR	Indicator	Receiving IR signal
Mouse	USB A	For mouse connection
Keyboard	USB A	For keyboard connection
USB2.0	USB A	USB2.0 HUB
USB3.0	USB A	USB3.0 HUB
OUT1	Light	Indicate input source device on OUT1
1	Switch Button	Switch the next active device into OUT1
OUT2	Light	Indicate input source device on OUT2
2	Switch Button	Switch the next active device into OUT2

Rear Panel

Label	Name	Description
IN1-IN4	Input Interface	HDMI®1-HDMI®4 source input interface
OUT1	OUT1 Interface	OUT1 HDMI® target screen interface
OUT2	OUT2 Interface	OUT2 HDMI® target screen interface
AUDIO	OUT Interface	3.5mm audio output interface
DC 12V	Power Interface	DC 12V1A power input interface

Connection Diagram

Note: To ensure 4K high definition, please make sure your source devices, connected cables and monitors can all achieve 4K resolution and refresh rate.

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Instructions

1. Switching operation

Supports dual screen display or different display, support automatic detection of USB input signal source and output to OUT2. Support automatic switching between USB online ports, no switching if USB signal is unplugged. The current KVM keyboard and mouse follow the button, USB HUB port follows OUT1, audio separation follows OUT1, automatic scanning output at OUT2, and USB unconnected ports are automatically skipped.

2.1 Mouse multi-dimensional travel switching

After turning on the multi-dimensional mouse switching function (turned on by default and supports turned off), we can use the mouse to switch sources at will through horizontal and vertical traversal, breaking the limitations of traditional switching methods, simplifying and accelerating switching operations between multiple computers, and realize that seamlessly switch sources by moving the mouse horizontally and vertically, and the keyboard and mouse are synchronized between two screens.

Panel button switching

Press the switch button "1" lightly to select the input source to be displayed on HDMI® OUT1, which will match the source port of left digital display. Press the switch button "2" lightly to select the input source to be displayed on HDMI® OUT2, which will match the source port of left digital display.

Infrared remote control switching

Cyclically switch the source output to OUT1

Cyclically switch the source output to OUT2

Jump to the port corresponding to the numeric key. Signal source exchange

OUT1&OUT2 interchange function

Mute

Audio Scan

Set OUT1 output resolution

Set OUT2 output resolution

Tip: Remote control buttons without instructions are invalid buttons with undefined functions.

2.4 Keyboard hotkey switching

The hotkey command operation must be completed within 5 seconds to take effect. When the specified port is switched, regardless of whether there is a signal source connected, it will be forced to switch to the port, and the source port will be displayed with the digital display on the left side of the digital tube.

Double-click

to switch the OUT1 port

Double-click

to switch the OUT2 port

Double-click

to quickly and automatically jump to the next online port corresponding to the current KVM keyboard and mouse.

Double-click

to set the OUT1 resolution

Double-click

to set the OUT2 resolution

The corresponding resolutions from 0 to 9 are as follows:

0: Default follow mode (automatically identify the default resolution of the output device)

1: 1280X720P@60Hz

2: 1920X1080P@60Hz

3: 5640X2160@30Hz

4: 2560X1440@60Hz

5: 1600X1000@60Hz

6: 1920X1200@60Hz

7: 1440X900@60Hz

8: 1280X1024@60Hz

9: 800X600@60Hz

Double-click

Setting the audio separation mute on or off circularly. This hotkey setting has memorized function, and mute is turned off by default when the device is re-turned on.

Double-click

Setting the buzzer on or off circularly.

Double-click

Auto Scan (keyboard and mouse follow OUT2 output, keyboard and mouse cannot switch or traverse)

Double-click

to set the scan time in the range of 1-999 seconds.

Double-click

jumping mode. Double-click the middle mouse button in jumping mode, and the KVM keyboard and mouse will switch between the corresponding ports of OUT1&OUT2.

Swap output ports:

Double-click

Swap output ports. Once you operate OUT1&OUT2, the ports are swapped once, and the keyboard, mouse, etc. are associated with swapping actions.

Double-click

horizontal traversal mode. In this mode, KVM mouse realizes the horizontal direction crossing function and power-off memory. (This mode is the factory default.)

Double-click

vertical traversal mode. In this mode, KVM mouse realizes the vertical direction traversal function and power-off memory.

2.5 Serial port command switching

Serial port parameter configuration

Baud rate: 115200

Data bits: 8

Stop bit: 1

String definition: Mark with "Enter" key or line feed

The host computer sends a string (not case-sensitive), and will reply "OK" if the parsing is successful, or "Null/n" if the parsing fails.

Serial command	Command function
select pc1/2/3/4 to out1	Select the host corresponding to OUT1
select pc1/2/3/4 to out2	Select the host corresponding to OUT2
next port	Automatically jump to the next online host to the current output port
set buzz on	Turn on the buzzer
set buzz off	Turn off the buzzer
audio mute on	Enable audio separation output mute
audio mute off	Turn off audio split output mute
start to scan	Start OUT1 scan
stop scanning	Exit OUT1 scan
set x-across mode	Keyboard and mouse horizontal traversal mode (default)
set y-across mode	Keyboard and mouse up and down traversal mode Keyboard and mouse jump mode
set mouse jump mode	Keyboard and mouse jump mode
set scan time to 999	Set automatic scan interval (1-999 seconds)

Extended function

By changing the wiring method, any signal source can be set to either duplicate or extend mode (the prerequisite for extended mode is that the signal source has sufficient interface support). When set to extended mode, the mouse can not be dragged to the secondary screen. Double-click HOME + 1 to disable the mouse crossing function, and then all extended functions can be used normally.

Monitor 1/2

Power

Speaker

U-Disk

Printer

Host/Laptop

Parameter specifications

Model	4 IN 2 OUT SWITCH
Input port	4*USB3.0 Type B female socket
	4*HDMI® Type A female socket
Output port	4*USB A type female socket
	2*HDMI® Type A female socket
	1*3.5mm audio port
Control part	RS232
Supports the maximum resolution	3840*2160@30Hz
Color space	RGB/BT601/BT709
Video formats	VESA and CEA-861-F
Bandwidth	9G
HDCP protocol	HDCP1.4
HDMI® version	HDMI®1.4
EDID standard	Built-in adaptive EDID
USB protocol	USB1.1/USB2.0/USB3.0
USB quantity	4
Wire distance	4K30Hz <5 meters, 1080P <20 meters, USB <5 meters
Compatible systems	Domestic systems, WINDOWS full series, Linux, Mac, etc. support
Hot plug	support
Switching method	Mouse multi-dimensional travel, panel buttons, infrared remote control, keyboard hotkeys and serial port code switching
Input voltage power	AC100V ~ 260V, 50/60 Hz
Power supply	DC 12V 1A
Power consumption	<10W
Indicator status	Digital display of current port

Working temperature

0℃~55℃

Storage temperature

-20℃~60℃

Product size

L227*W105*H42mm

Shell material

Aluminum shell

单页130x180MM