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USER MANUAL

J-Tech Digital® Ultra HD 4K 4x1 HDMI Switch with
PIP & Auto Switch On/Off
Model: JTECH-4KPIP0401



Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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1. Introduction

This high performance HDMI switcher can switch any of 4 HDMI sources to an HDMI display. It supports resolution up to 4K×2K@30Hz. It supports PIP (Picture in Picture) and automatic switch functions via IR remote. With its 3Gbps bandwidth and the additional features with the latest HDMI standards. Flexible control via front panel button and IR remote.

2. Features

- ☆ HDMI 1.4a, HDCP1.4 and DVI 1.0 compliant
- ☆ Supports 4 HDMI inputs and 1 HDMI output
- ☆ Video resolution up to 4K×2K@30Hz
- ☆ Supports color deep up to 30bit, 36bit, 48bit per pixel
- ☆ Supports PIP and automatic switch functions via IR remote, and PIP contains 1 main picture and 3 sub-picture.
- ☆ Supports HDMI audio format including DTS-HD/Dolby-true-HD/LPCM 7.1/DTS/Dolby-AC3/DSD
- ☆ Supports all 3D video format including frame pack up to 297MHz TMDS clock
- ☆ Control is via front panel button and IR remote

3. Package Contents

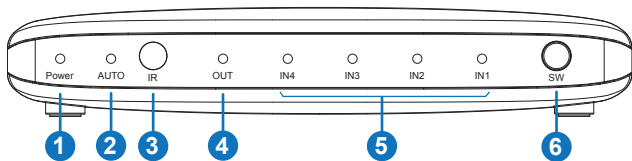
- ① 1× 4×1 4K×2K HDMI Switcher
- ② 1× 5V/1A DC Power Adapter
- ③ 1× IR Remote
- ④ 1× User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 1.4a
HDCP Compliance	HDCP 1.4
Video Bandwidth	2.97Gbps
Video Resolution	4K x 2K@30Hz,1080P@120Hz,and 1080P 3D@60Hz etc.
Color Space	RGB/YCbCr 4:2:0, YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	30bit, 36bit, 48bit per pixel
HDMI Audio Formats	DTS-HD/Dolby-true-HD/LPCM 7.1/DTS/Dolby-AC3/DSD
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)
Connections	
Inputs	4×HDMI Type A [19-pin female] 1×IR Receiver Window
Outputs	1×HDMI Type A [19-pin female]
Mechanical	
Housing	Plastic Enclosure
Color	Black
Dimensions	135mm(W)×77.6mm(D)×23.1mm(H)
Weight	120g
Power Supply	Input: AC100~240V 50/60Hz Output: DC5V/1A(US standards , CE/FCC/UL certified)
Power Consumption	1.5W
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

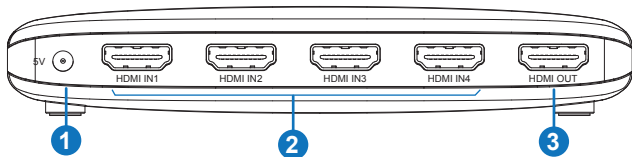
5. Operation Controls and Functions

5.1 Front Panel



Number	Name	Function description
1	Power LED	The red LED will illuminate when the product is connected power supply.
2	AUTO LED	The green LED will illuminate when the AUTO function is turned on. Otherwise, the light is off.
3	IR	IR receiver window. It receives IR remote signal from this product only.
4	OUT LED	The green LED will illuminate when HDMI OUT port is connected an active display device.
5	IN1~IN4 LED	<ul style="list-style-type: none">▪ The LED will illuminate in blue when HDMI IN port is connected an active display device and be chosen.▪ The LED will illuminate in red when HDMI IN port is connected an active display device but not be chosen.▪ The LED won't illuminate when HDMI IN port is not connected display device. Note: The main picture illuminates in blue and others sub-picture illuminate in red or not illuminate in PIP function.
6	SW button	Loop choose input source, corresponding the light is on.

5.2 Rear Panel



Number	Name	Function description
1	5V	Connect 5V/1A adapter to AC wall outlet for power supply.
2	HDMI IN1~IN4	Connect to HDMI sources device such as DVD player or PS4 with HDMI cable.
3	HDMI OUT	Connect to HDMI display device such as TV or monitor with HDMI cable.

6. IR Remote



IN1/IN2/IN3/IN4: Choose input source button.

AUTO: Turn on/off AUTO function.

(Please see “7. AUTO function instruction ” detail description)

↻: Loop choose input source between IN1 and IN4

PIP: Turn on/off PIP function.

SEL: Choose an input source to main picture in PIP function.

Enter: Press the SEL button will choose an input source to main picture, and then press the button to confirm this operation in PIP function.

7. AUTO function instruction

① The product has power off memory function.

1) If the AUTO function is turned off and the product is powered off. When the product is powered on again and the AUTO function is also turned off. At this time, the HDMI OUT port will be chosen the input source before power off.

2) If the AUTO function is turned on and the product is powered off. When the product is powered on again and the AUTO function is also turned on. At this time, the HDMI OUT port will be chosen the input source before power off. But the input source before power off has not input signal, the HDMI OUT port will be chosen the next input source. For example, the HDMI IN2 is the input source before power off and it has not input signal, the HDMI OUT port will be chosen HDMI IN3 port. The order of choosing input source is IN1>>IN2>>IN3>>IN4>>IN1...etc.

Note: All input sources are not connected when the product is powered on again, the HDMI OUT port will be chosen the input source before power off and not jump.

② The product is powering on and the AUTO function is turned off.

If the AUTO function is turned off, there is no effect when you plug in or pull out input source. You can use SW button on front panel or IR remote to switch input source.

③ The product is powering on and the AUTO function is turned on.

1) The HDMI OUT port will jump the corresponding input source when the product is connected an input source. For example, The HDMI OUT port will jump HDMI IN2 when the product is connected the HDMI IN2 source.

2) When you pull out the input source before you chosen, and the HDMI OUT port will jump the next input source. The order of choosing input source is IN1>>IN2>>IN3>>IN4>>IN1...etc. If all input sources are pulled out, the HDMI OUT port is not jump.

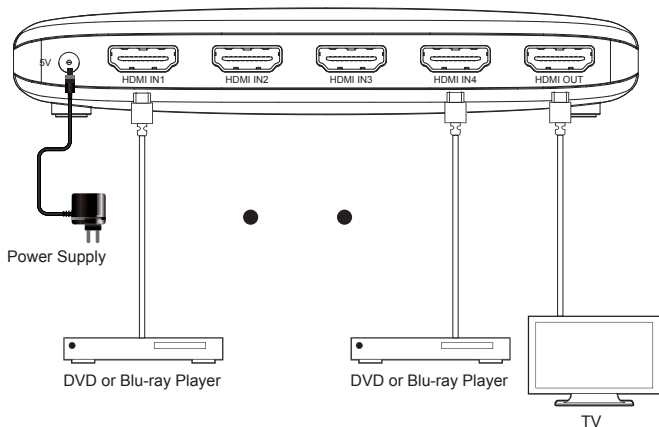
④ **The product is powering on, you turn off the AUTO function and then turn on.**

If you turn off the AUTO function, there is no effect when you plug in or pull out input source. Then you turn on the AUTO function, the HDMI OUT port will jump according to the order IN1>>IN2>>IN3>>IN4>>IN1...etc.

⑤ **The product is powering on, you turn on the AUTO function and then turn off.**

The AUTO LED will off when the AUTO function is turned off. At this time, the input and output sources are not changed.

8. Application Example



9. FAQ

Q: Does this product require HDMI line length for the connection interfer?

A: According to HDMI line length test, 4K×2K@30Hz is the longest line length up to 10m/32.8ft at HDMI input port and is the longest line length up to 3m/9.8ft at HDMI output port.

The use of "Premium High Speed HDMI" cable is highly recommended.

The range of IR remote is between 0~7m and the angle is plus and minus 45 degrees.



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