



J-TECH DIGITAL[®]

USER MANUAL



ULTRA HD 8K 2X1 HDMI SWITCH

JTD-3003 | JTECH-8KSW21C

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Scan the QR code below, or visit <https://resource.jtechdigital.com/products/3003> to view and access detailed digital resources regarding this unit.



Safety Instructions:

Before using this product, please carefully read the following safety instructions to ensure its proper use and keep this manual for future reference:

- To prevent electric shock, do not attempt to open the product.
- Only qualified personnel should perform any repairs or maintenance.
- Always place the product on a stable, flat surface to prevent it from falling.
- Do not expose the product to water, moisture, or high-humidity environments to avoid the risk of damage.
- To prevent damage from direct sunlight or high temperatures, do not expose the product to such environments.
- Do not place the product near heat sources like radiators, heat registers, stove, or other heat-producing apparatus.
- Do not place any objects on top of the product to avoid damage.
- Use only the attachments and accessories specified by the manufacturer.
- During lightning storms or prolonged periods of disuse, unplug the power supply to prevent damage.

Table of Contents

1. Introduction	5
2. Package Contents	5
3. Remote Control Function and Panel Overview	6
4. Features	8
5. Specifications	9
6. Connection Diagram	10
7. Troubleshooting Common Issues	11
8. Maintenance	11
9. Warranty	11
10. Mail-In Service	12
11. Limited Warranty Limits and Exclusions	12

1. Introduction

The 2 port HDMI switch supports 8K@60Hz (7680x4320p@60Hz) lets you share a display or projector with 2 HDMI enable video sources. The switch features two independent inputs that each support 8K resolution and 7.1 surround sound audio. You'll be amazed at how this video switch maintains Ultra-HD picture quality. 8K is supported by the latest A/V devices and delivers four times the resolution of 4K. Plus, because the switch is backward compatible with Ultra-HD 4K and high-definition 1080P, you can rest assured any video source will look great in your digital signage application. Enjoy hassle-free operation with three different switching modes:

1. Manual Port Switching: Enables you to manually select your HDMI source with easy-to-use panel button.
2. Remote Control Switching: Enables you to control the switch at a distance.
3. Automatic Port Switching: Enables your most recently activated video source to be displayed automatically.

It also features the Automatic and Manual switching mode change function and IR receiver on/off function via long pressing the switch button for 3-5 seconds to meet customer's needs.

2. Package Contents

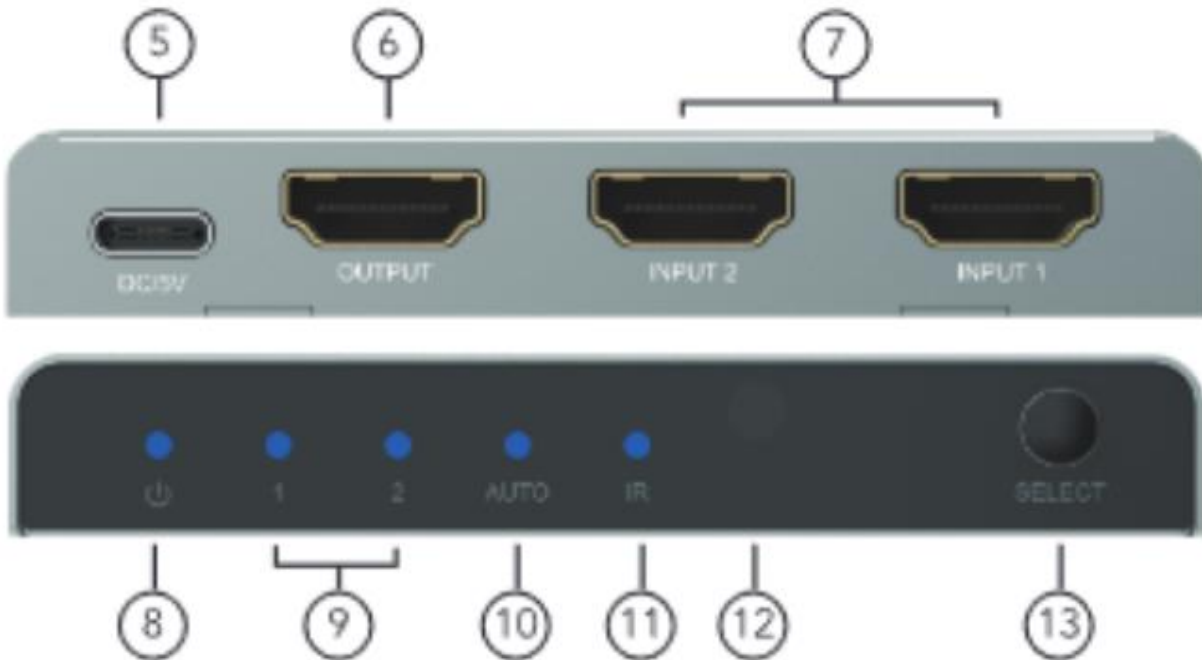
- (1) x HDMI Switch
- (1) x User Manual
- (1) x USB Power Cable
- (1) X Remote Control (2*AAA Batteries Not Included)

3. Remote Control Function and Panel Overview



Remote Control Size: 128.5 x 40 x 17.5mm

1. Power: Press to turn the switch on/off
2. 1-2: Press the number to select the input source accordingly
3. IR: Press to turn on/off the IR receiver function. If the IR mode LED indicator on the switch is on, the unit is in normal IR receiver mode. If the LED is turn, the IR function is disabled.
4. Auto: Press to toggle between auto and manual switching modes



5. DC/5V: DC 5V Input via USB-C
6. HDMI Output Port
7. HDMI Input 1 & 2 Ports
8. Power LED Indicator
 - a. Blue LED indicates “working mode”
 - b. No LED indicates “No power supply connected” or “standby mode”
9. 1 & 2 HDMI Input LED Indicators:
 - a. Blue LED indicates “active signal path”
 - b. No LED indicates “no input signal”
10. Auto: Auto mode LED indicator
 - a. “On” is in automatic switching mode
 - b. “Off” is in manual switching mode

11. IR: IR signal receiver port
12. IR sensor
13. Source select button. Short press to change the input channel, and long press for 3 seconds to change between automatic and manual switching modes. Auto mode LED indicator will be on for automatic switching mode and off for manual switching mode. Long press the selector button for 6 seconds to turn on/off the IR receiver mode. IR mode LED indicator will be on for normal IR receiver mode, and off for no IR function.

4. Features

- HDMI stylish switches with manual port switching / automatic port switching. Manual and auto switching modes can be changed to one another via long pressing the selector button for 3-5 seconds, or pressing the “auto” button to change the states directly
- Supports high-definition resolution 8K@60Hz 4:4:4, 4K@120Hz, and 1080P@240Hz
- Supports 1200MHz/12Gbps per channel bandwidth (48Gbps all channels)
- Supports 12bit per channel (36bit all channels) deep color
- Supports HDCP 2.3, and backwards compatible with HDCP 2.2 and 1.4
- Supports High Dynamic Range (HDR) video pass-through, such as HDR10/HDR10+/Dolby Vision etc.
- Supports VRR (Variable Refresh Rate), ALLM (Auto Low-Latency Mode), and QFT (Quick Frame Transport) functions
- Built-in Equalizer, Retiming, and Driver
- Supports Consumer Electronic Control
- Automatic switching (smart function), manual switching, and remote control switching
- Supports IR receiver on/off function via long pressing the selector button for 6 seconds or press the button to control the function on/off, turn on the IR receiver function form normal use and turn off the IR receiver function to avoid the unwished remote control the switch for using the same infrared code

- Supports uncompressed audio, such as LPCM
- Supports compressed audio such as DTS, Dolby Digital (including DTS-HD Master Audio and Dolby True-HD)

Note:

1. If you would like to output 8K@60Hz, 4K@120Hz, and 1080P@240Hz via the switcher in your displays, please make sure your source devices, your cable, and your monitors can all support the compatible resolution and refresh rates
2. You would need HDMI 2.1 cable to enjoy 8K visual effects

5. Specifications

Input Ports	HDMI x 2
Outputs Ports	HDMI x 1
Vertical Frequency Range	50/60/100/120/240Hz
Video Amplifier Bandwidth	12Gbps/1200MHz per channel (48Gbps all channels)
Interlaced (50&60Hz)	480i, 576i, 1080i
Progressive (50&60Hz)	480p, 576p, 720p, 1080p, 4K@24/30Hz, 4K@50/60/120Hz, 8K@24/30/50/60Hz
Limited Warranty	1 Year Parts
Operating Temperature	0° ~ 70°C
Storage Humidity	5% - 90% RH non-condensation
Power Supply	USB Power Cable
Power Consumption (Max)	5W
Switch Unit Cert	FCC, CE, RoHS
Power Supply Cert	FCC, CE, RoHS

Power Adapter Standard	US, EU, UK, AU Standard etc.
Dimensions (LxWxH)	90 x 44 x 14mm
Net Weight	90g

Note: Specifications are subject to change without notice

6. Connection Diagram



7. Troubleshooting Common Issues

Q: Power light is off and product is not working. How can I fix this?

A: First, please check the following items:

1. Ensure that your device's HDMI input device is properly connected and it is powered on.
2. Check that the HDMI port is selected correctly and is active.

Q: My display flickers when I use the switcher. What could be causing this?

A: This may be caused by one or more of the following:

1. Make sure that the HDMI cable and switcher are securely connected.
2. Ensure that the HDMI cable is 2.1 standard, and the length is under the switcher limited length of 1.5 meters HDMI in and out at 8K/60Hz 4:4:4, 4K@60Hz can reach 4M in and 4M out.
3. Change to the other port and see if the issue persists.

Q: The switcher auto function can't work normally. What could be causing this?

For the auto-switch to work properly, the newly connected source device should be powered on. If the HDMI source is not powered or is in stand-by mode, the switcher may not detect it and won't output audio or video.

8. Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner, or benzene to clean.

9. Warranty

If your product does not work properly because of a defect in materials or workmanship, our company (referred to as "the warrantor") will, for the length of the period indicated as below, "Parts and Labor (1) Year", which starts with the date of original purchase ("Limited Warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

During the “Labor” limited warranty period, there will be no charge for labor. During the “Parts” warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

10. Mail-In Service

When shipping the unit, carefully pack and send it prepaid, adequately insured, and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

11. Limited Warranty Limits and Exclusions

This Limited Warranty ONLY COVERS failures due to defects in material or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, mis-adjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributed to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER “LIMITED WARRANTY COVERAGE”. THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.) PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.



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