



J-TECH DIGITAL[®]

USER MANUAL



8K HDMI 2X1 SWITCH

JTD-2935 | JTECH-8KSW21

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1. Introduction

This 8K 2x1 HDMI 2.1 switcher can switch any of the 2 HDMI sources to 1 display. It supports video resolution up to 8K @ 60Hz 4:4:4, 48GBbps video bandwidth. It is suitable for outdoor display, video conference rooms, security monitoring, home theater and other applications.

By using this 8K HDMI switcher, you can connect 2 sources, one in HDMI 1 and another in HDMI 2, and connect an external display to HDMI out. You can switch between the two sources by pressing the switch button on the top panel of the switcher. In order to make sure that you display shows normally, we suggest that you plug the micro-USB cable in the package in to your USB device to power the switcher.

Please note that this switcher is not bi-directional; you can only use from two sources to one display (only 2 in 1 out, not 1 in 2 out).

This unit can work well with Xbox or PS5 to achieve 4K @ 120Hz on your compatible display.

2. Features

- HDMI 2.1 and HDCP 2.3 compliant
- Supports 48Gbps video bandwidth
- 8K@60Hz 4:4:4 8/10/12bit, 8K@60Hz 4:2:0 12-bit, 8K@ 30Hz 4:4:4 10-bit, 4K@120Hz 4:4:4 10-bit video support
- Supports HDR, HDR10, HDR10+, Dolby Vision, HLG pass through
- VRR, FVA, ALLM, QFT support
- Supports HDMI audio formats: LPCM 7.1CH, Dolby TrueHD, and DTS-HD Master Audio
- 2x1 switch output, auto switch supported
- Built-in Equalizer and Driver
- Auto EDID management
- Compact design for easy and flexible installation

3. Package Contents

- (1) × 8K Two-Input HDMI Switcher
- (1) × Micro USB Power Cable
- (1) × User Manual

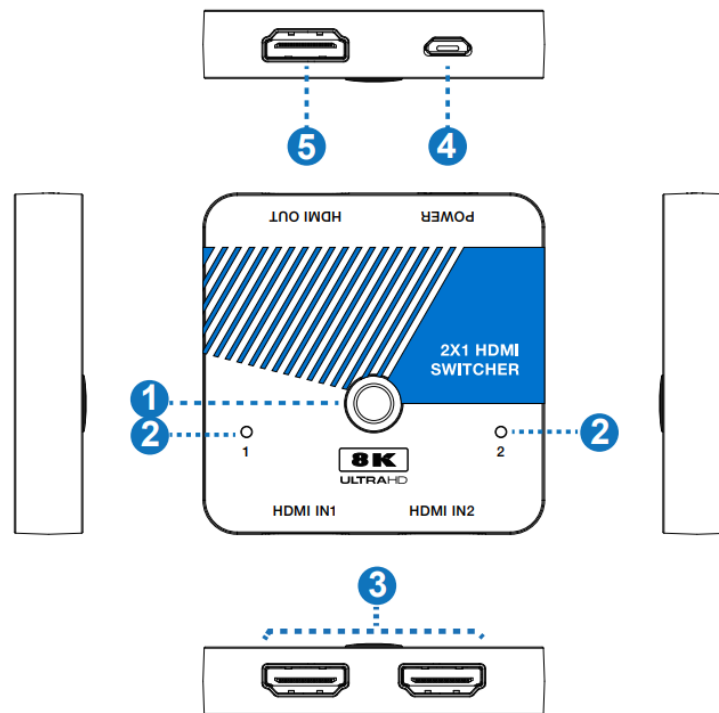


4. Specifications

Technical	
HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	48Gbps
Video Resolution	Up to 8K@60Hzx 4:4:4 8/10/12bit, 8K@60Hz 4:2:0 12-bit, 8K@30Hz 4:4:4 10-bit, 4K@120Hz 4:4:4 10-bit
Color Depth	8-bit, 10-bit, 12-bit
Color Space	RGB, YCbCr 4:4:4 / 4:2:2 / 4:2:0
HDMI Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby TrueHD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Connection	
Input	2 x HDMI In [Type A, 19-pin female]
Output	1 x HDMI Out [Type A, 19-pin female]
Mechanical	
Housing	Plastic Enclosure
Silkscreen Color	Black
Dimensions	60mm (W) x 60mm (D) x 12mm (H)
Weight	31g
Power Supply	USB 5V
Power Consumption	1.25W (Max)
Operation 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



No.	Name	Function Description
1	Switch button /Power LED	Short pressing the switch button will allow the device to switch any of the two HDMI input signals to the HDMI display; long press this button to enter the auto switching mode. When the device is powered on, the green power LED is on.
2	Input LED (1~2)	When the HDMI IN1/2 port is selected as the input source channel, the corresponding green LED is on.
3	HDMI IN1/2 port	HDMI signal input ports, connecting to HDMI source device such as DVD or PS5 with an HDMI cable.
4	POWER	DC 5V USB power input port.
5	HDMI OUT port	HDMI signal output port, connecting to HDMI display device such as TV or Monitor with an HDMI cable.



6. Notes

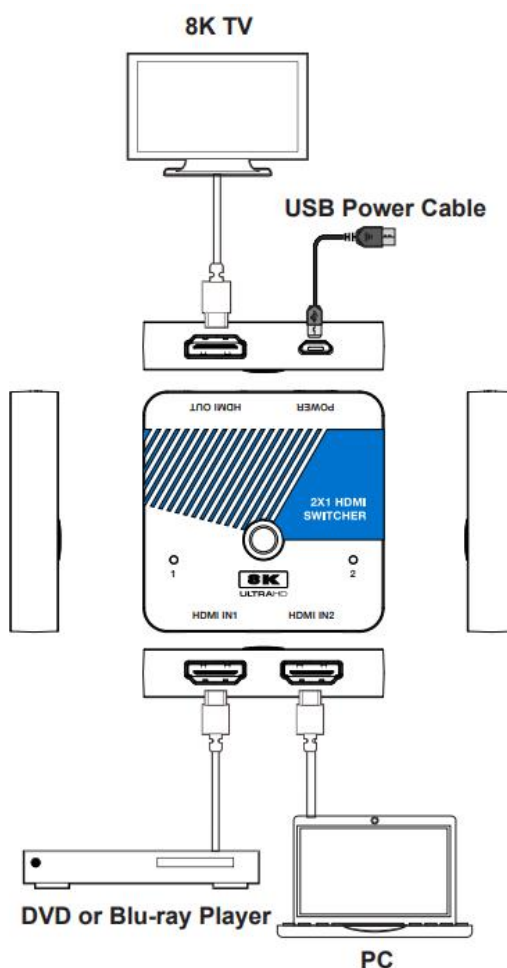
- While using the HDMI switcher, power supply via Micro USB cable is not necessary. But in case some of your HDMI devices with insufficient power, please connect Micro USB cable to your USB devices for power supply.
- If you need to use the switcher to output signals of 4K@ 120Hz or 8K@60Hz, please make sure that your HDMI cable, HDMI signal source and HDMI display all support the above resolution.
- The length of the HDMI cables connected to both ends of the switcher should not be too long, otherwise, it will easily cause the screen to flicker. The following HDMI cables are suggested:

8K60, 8K30, 4K120: Ultra HDMI2.1 cable, IN/OUT 2 meters.

4K60 4:4:4: HDMI2.0 cable, IN/OUT 3 meters.

4K60 4:2:0, 4K30, 1080P: HDMI cable, IN/OUT 5 meters.

7. Application Example



8. Product Service

- 1) Damage requiring service:** The unit should be serviced by qualified service personnel if:
- (a) The DC power supply cord or AC adapter has been damaged;
 - (b) Objects or liquids have gotten into the unit;
 - (c) The unit has been exposed to rain;
 - (d) The unit does not operate normally or exhibits a marked change in performance; (e) The unit has been dropped or the cabinet damaged.
- 2) Servicing Personnel:** Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
- 3) Replacement Parts:** When parts need replacing, ensure that the servicer uses parts specified by the manufacturer, or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
- 4) Safety check:** After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

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 (1) Year, Labor (90) Days”, 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.

12. Extended Warranty

With the registration of supported J-Tech Digital products, you extend the current warranty by 6 months. This extension is added to the warranty that starts at the purchase date of the device supported. Total product warranty with the extended period will equate to a total of 18 months of warranty from the date of purchase.

For extended warranties to be accepted, all warranty extensions must be claimed within 30 days of purchasing the eligible J-Tech Digital product. Extensions attempted to be claimed outside of the 30-day window will not be accepted. Visit www.jtechdigital.com to register your extended warranty.





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