J-TECH DIGITAL®

USER MANUAL

ULTRA HD 4X1 HDMI SWITCHER 8K60HZ 4:4:4
WITH AUDIO EXTRACTION AND EDID CONTROL

JTD-3226 I JTECH-8KSW41AE

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Scan the QR code below or visit
https://resource.jtechdigital.com/products/3226
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 no 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.

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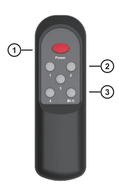
1. Introduction

The HDMI™ 8K switch 4x1 lets you share an HDMI™ display or projector with four HDMI-enabled audio / video source devices. With support for Ultra HD (8K@60Hz) the HDMI™ Switch ensures astonishing picture quality, four times the resolution of UHD 4K@60 Hz. The 8K Switch is also backward compatible with previous HDMI™ revisions, supporting 4K/1080p / 720p HDMI™ video resolution devices. Even if you don't require 8K video today, the HDMI™ 8K Switch 4x1 ensures you'll be ready to take advantage of tomorrow's display technology. It features EDID management for bypass EDID and fifteen default EDID modes to meet needs of different display occasion. It also supports audio extract from HDMI source to optical and analog out

2. Package Contents

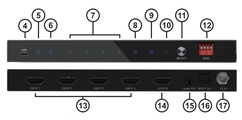
- HDMI 4x1 Switch 8K@60Hz 4:4:4 with Audio Extractor (TOSLINK and Stereo) and EDID Control
- User Manual
- Remote Control
- 5V 1A DC Power Adapter with screw

2. Ports and Interfaces



Remote Control Size: 128.5 x 40 x 17.5mm

1. Power: Pressing to turn on/off the switcher
2. 1-4: Pressing the number to select the input source accordingly
3. IR : Pressing to turn on/off the IR receiver function if the switcher IR mode LED indicator, on is in normal IR receiver mode, off is in no IR function mode.



4. USB(Service): For Factory Use Only
5. : Power LED Indicator
   Red LED indicates "standby mode"
   Blue LED indicates "working mode"
   No LED indicates "No Power supply connected"
6. O: HDMI Output LED Indicator
7. 1-4: HDMI Input 1-4 LED Indicator
8. : Auto Mode LED Indicator
   ON is In Automatic Switching Mode
   OFF is in Manual Switching Mode
9. : IR Mode LED Indicator
   ON is In normal IR receiver Mode
   OFF is in no IR Function Mode
10. IR Receiver port
11. SELECT: Change the Input Source Select Button
12. EDID: DIP Switch for Bypass EDID and Fifteen Default EDID modes
13. INPUT 1-4: HDMI Input 1-4 port
14. OUTPUT: HDMI Output port
15. Audio Output : Connect to the Audio Output Devices via 3.5mm Cable
16. SPDIF Output: Connect to the Audio Output Devices via SPDIF Cable
17. DC/5V: DC 5V Input

4. Features

- Supports different control methods for Front panel button control, Remote control
- Supports highest video resolution up to 8K@60Hz YUV 4:4:4
- Supports DE-embedded Audio of the selected HDMI input at the analog 3.5mm stereo and digital optical
- Supports High Dynamic Range (HDR) video
- Support Consumer Electronics Control function (input1 only)
- Supports EDID control (management) function with 15 internal EDID handshakes including 8K with HDR in addition to native EDID data copied from the output display
- Supports HDCP2.3, HDCP2.2 and HDCP1.4
- Supports 1200MHz/12Gbps per channel (48Gbps all channels) bandwidth
- Supports 12 bit per channel (36bit all channels) deep color
- Supports uncompressed audio such as LPCM
- Support compressed audio such as DTS, Dolby Digital (including DTS-HD Master Audio™ and Dolby TrueHD)
- Support Full 3D

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 resolution and refresh rate you need to output before
2. You need connect standard HDMI-compatible 2.1 cable to enjoy 8K visual effects

↓=HIGH ↑=LOW

Binary Code	1 2 3 4	EDID Setting Description
0000	↑↑↑↑	Copy EDID from HDMI Output
1000	↓↑↑↑	8K+4K@60 4:2:0/8K+4K@30 4:4:4/4K+2K@120Hz 4:4:4, 48G, HDR10, 2CH AUDIO
0100	↑↓↑↑	8K+4K@60 4:2:0/8K+4K@30 4:4:4/4K+2K@120Hz 4:4:4, 48G, HDR10, DOLBY/DTS 5.1
1100	↓↓↑↑	8K+4K@60 4:2:0/8K+4K@30 4:4:4/4K+2K@120Hz 4:4:4, 48G, HDR10, HD AUDIO
0010	↑↑↓↑	4K+2K@60, 18G, HDR10, 2CH AUDIO
1010	↓↑↓↑	4K+2K@60, 18G, HDR10, DOLBY/DTS 5.1
0110	↑↓↓↑	4K+2K@60, 18G, HDR10, HD AUDIO
1110	↓↓↓↑	4K+2K@60, 10.2G, HDR10, 2CH AUDIO
0001	↑↑↑↓	4K+2K@60, 10.2G, HDR10, DOLBY/DTS 5.1
1001	↓↑↑↓	4K+2K@60, 10.2G, HDR10, HD AUDIO
0101	↑↓↑↓	1080p, 2CH AUDIO
1101	↓↓↑↓	1080p, DOLBY/DTS 5.1
0011	↑↑↓↓	1080p, HD AUDIO
1011	↓↑↓↓	1280x720p@60 DVI
0111	↑↓↓↓	1920x1080p@60 DVI
1111	↓↓↓↓	4K+2K@30, 10.2G, HDR, 2CH AUDIO

5. Specification

Input Ports	HDMI x 4
Output Ports	HDMI x 1
Vertical Frequency Range	50/60/120Hz
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 and Labor
Operating Temperature	0℃ to 70℃
Storage Humidity	5% to 90% RH non-condensation
Power Supply	5V DC @1A
Power Consumption (Max)	5W
Switcher Unit Cert	FCC, CE, RoHS
Power Supply Cert	FCC, CE, RoHS
Power Adapter Standard	US, EU, UK, AU Standard etc.
Dimension(LxWxH)	188*70*18mm
Net Weight	284g

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 power supply properly connected and power it on.
2. Check the HDMI port of display is selected correctly and properly connected as using.

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 the HDMI cable and splitter are securely connected.
2. Ensure the HDMI cable is standard HDMI 2.1 cable and the length is under the splitter limited length 2 meters HDMI in and out at 8K/60Hz 4:4:4, 4K@60Hz can reach 4M in and 4m out.
3. Change to the another port to have a try of the display
4. Change to the another EDID mode to check the display normal or not.

Q: The switcher can't output 8K resolution to the display. Is it normal?

A: No, the product can support 8K resolution.
it need the both display, the input source and the HDMI cable support the 8K resolution, If one of the device not support the higher resolution, please change another lower resolution to display

8. Maintenance

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

9. Warranty

If your product does not work properly because of a defect in materials of 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" warrantyperiod, there will be no charge for parts. You must mail-in your product during the warranty period. ThisLimited Warranty is extended only to the original purchaser and only covers products purchased as new. Apurchase 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 theoriginal carton. Include a letter detailing the complaint and provide a day time phone and/or email addresswhere 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 NOTCOVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVERdamages 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, powerline surge, lightning damage, modification, or service by anyone other than a Factory Service center orother 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 notliable for incidental or consequential damages resulting from the use of this product or arising out of anybreach of this warranty. (As examples, this excludes damages for lost time, cost of having someoneremove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to mediaor 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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