J-TECH DIGITAL®

USER MANUAL

ULTRA HD HDMI 1X2 SPLITTER
8K60HZ 4:4:4 WITH EDID CONTROL
JTD-3258 | JTECH-8KSP12E

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

RoHS compliant

CE FC

Scan the QR code below or visit
https://resource.jtechdigital.com/products/3258
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
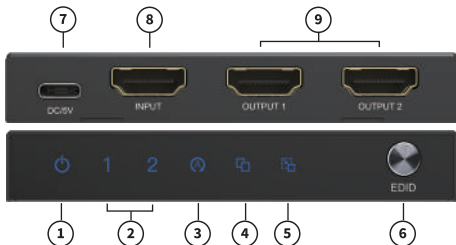 supply to prevent damage.

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1. Introduction

The HDMI™ 8K splitter 1x2 lets you share two HDMI™ displays or projectors with an HDMI-enabled audio / video source device. With support for Ultra HD (8K@60Hz) the HDMI™ splitter ensures astonishing picture quality, four times the resolution of UHD 4K@60 Hz. The 8K splitter 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 Splitter 1x2 ensures you'll be ready to take advantage of tomorrow's display technology. It features three different EDID modes auto/copy/downscaler for meet needs of different display occasion.

2. Package Contents

• HDMI 1x2 Splitter 8K@60Hz 4:4:4
• User Manual
• USB-A to USB-C Power Cable
• 5V 2A USB Power Charger

3. Ports and Interfaces

1. ⏻ : Power LED
2. 1-2: HDMI Output 1-2 LED Indicator
3. ⊘ : Auto Mode LED Indicator
   ON is In Normal Auto EDID Mode which gets the Lower Resolution and Audio Format of the Both Output for the Input Device to Output the Signal to Fit Both Outputs
4. ⊡ : Copy Mode LED Indicator
   ON is In Copy EDID Mode which copy the Output1 Resolution and Audio Format for the Input Device to Output the Signal
5. ⬚ : Downscaler Mode LED Indicator
   ON is In Downscaler EDID Mode which can downscale the Input 8K Resolution to 4K or 1080p by the UHD (4K) or FHD (1080p) Display for fixed connect to the output2 port and 8K Resolution to the 8K Displays Simultaneously for fixed connect to the output1 port.
6. EDID: Three EDID select button for downscaler, auto and copy
7. DC/5V: USB DC 5V Input
8. INPUT: HDMI Input port
9. OUTPUT 1-2: HDMI Output 1-2 port

4. Features

- Support three different EDID modes auto/copy/downscaler
  When turn to the auto EDID function, it can get the lower resolution and audio format of the both output for the input device to output the signal to fit both outputs
  When turn to the copy EDID function, it can copy the output1 resolution and audio format for the input device to output the signal, if the other output device supported resolution is lower than the output1 connected device, it will downscaler the resolution and keep the same audio format, HDR format and deep color with the output1, or it will output same signal to both outputs
  When turn to the downscaler function, it can downscale the input 8K resolution to 4K or 1080p by the UHD (4K) or FHD (1080p) Display for fixed connect to the output2 port and 8K Resolution to the 8K Displays Simultaneously for fixed connect to the output1 port.
- Support full 3D video format
- Support high definition resolution 8K@60Hz 4:4:4, 4K@120Hz and 1080P@240Hz
- Support 1000MHz/10Gbps per channel bandwidth (48Gbps all channels)
- Support 12bit per channel (36bit all channels) deep color
- Support HDCP 2.3, and back compatible with the HDCP2.2 and HDCP1.4
- Support High Dynamic Range (HDR) video pass-through, such as HDR10/HDR10+/Dolby vision etc.
- Support Consumer Electronics Control function
- Support uncompressed audio such as LPCM
- Support compressed audio such as DTS, Dolby Digital (including DTS-HD Master Audio™ and Dolby TrueHD)
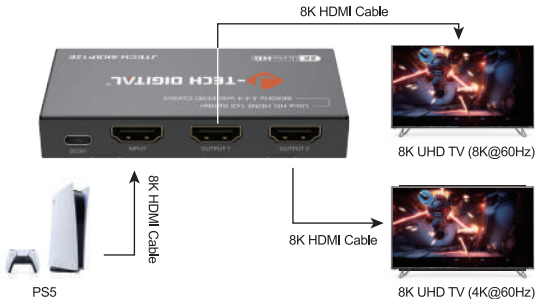
Note:
1. If you would like to output 8K@60Hz,4K@120Hz and 1080P@240Hz via the switcher in your displays, please make sure your source devices, your cable and your monitors can all support the resolution and refresh rate you need to output before
2. You need connect standard HDMI-compatible 2.1 cable to enjoy 8K visual effects
3. If in downscaler mode the supported resolution only can up to 8K@60 4:2:0 for the main chip performance limited

5. Specification

Input Ports	HDMI x 1
Output Ports	HDMI x 2
Vertical Frequency Range	50/60Hz
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@24130/50/60Hz
Limited Warranty	1 Year Parts and Labor
Operating Temperature	0℃ to 70℃
Storage Humidity	5% to 90% RH non-condensation
Power Supply	DC 5V at 2A Power Charger
Power Consumption (Max)	10W
Splitter Unit Cert	FCC, CE, RoHS
Power Supply Cert	FCC, CE, RoHS
Power Adapter Standard	US, EU, UK, AU Standard etc.
Dimension(LxWxH)	90*44*14mm
Net Weight	87g

Note: Specifications are subject to change without notice.

6. Connection Diagram

8K HDMI Cable

8K UHD TV (8K@60Hz)

8K HDMI Cable

8K HDMI Cable

PS5

8K UHD TV (4K@60Hz)

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 and 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 second display flickers when I use the splitter. 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 splitter can`t output to two 8K displays at the same time. Is it normal?

A: No,The product can two 8K displays at the same time synchronously at the "auto" and "copy" mode. it need the both displays support the same 8K resolution. If at the downscaler mode,the output1 will output 8K@60Hz 4:2:0, and the output2 will output the 4K or 1080p resolution which fit the connected display`s resolution.

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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