



# J-TECH DIGITAL<sup>®</sup>

## User Manual



### 18G MRO HDMI Splitter 1x2

JTD-3181 | JTECH-SP12M18G



J-TECH DIGITAL INC.  
9807 EMILY LANE  
STAFFORD, TX 77477  
TEL: 1-888-610-2818

E-MAIL: SUPPORT@JTECHDIGITAL.COM

Scan the QR code below or visit  
<https://resource.jtechdigital.com/products/3181>  
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.

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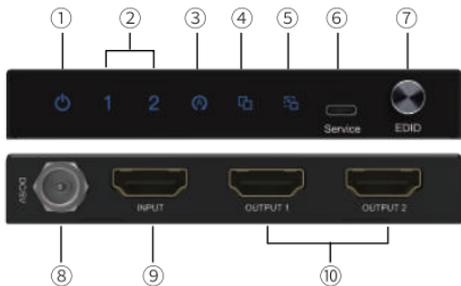
## 1. Introduction

The HDMI™ 4K splitter 1x2 lets you share two HDMI™ displays or projectors with an HDMI-enabled audio / video source device. With support for Ultra HD (4K@60Hz) the HDMI™ splitter ensures astonishing picture quality, four times the resolution of HD 1080p@60 Hz. The 4K splitter is also backward compatible with previous HDMI™ revisions, supporting 1080p / 720p HDMI™ video resolution devices. Even if you don't require 4K video today, the HDMI™ 4K 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

- Main Unit
- Power Adapter with screw
- User manual

### 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 4K Resolution to 1080p by the FHD (1080p) Display and 4K Resolution to the 4K Displays Simultaneously.

6. Service: Firmware update for factory use only

7. EDID: Three EDID select button for downscaler, auto and copy

8. DC/5V: DC 5V Input

9. INPUT: HDMI Input port

10. OUTPUT 1-2: HDMI Output 1-2 port

## 4. Features

- Supports 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 4K resolution to 1080p by the FHD (1080p) displays and 4K resolution to the 4K displays simultaneously.

- Supports full 3D video format
- Supports high resolution up to 4K@60Hz YUV 4:4:4
- Supports HDCP 2.2 and HDCP 1.4
- Supports High Dynamic Range (HDR) video
- Supports 600MHz/6Gbps per channel (18Gbps all channels) bandwidth
- Supports 12bit per channel (36bit all channels) deep color
- Supports uncompressed audio such as LPCM
- Supports compressed audio such as DTS, Dolby Digital (including DTS-HD Master Audio™ and Dolby TrueHD)

## 5. Specifications

Input Ports	HDMI x 1
Output Ports	HDMI x 2
Vertical Frequency Range	50/60Hz
Video Amplifier Bandwidth	6.0Gbps/600MHz per channel(18Gbps all channels)
Interlaced(50&60Hz)	480i,576i,1080i
Progressive(50&60Hz)	480p,576p,720p,1080p,4K@24/30Hz,4K@50/60Hz
Limited Warranty	1 Year Parts and Labor
Operating Temperature	0 C to 70 C
Storage Humidity	5% to 90% RH non-condensation
Power Supply	5V DC @1A
Power Consumption (Max)	5W
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
Material	Metal
User Manual	English Version

Note: Specifications are subject to change without notice.

## 6. Connection Diagram



## 7. Troubleshooting Common Issues

Problems	Causes	Solutions
Power light is off and product is not working	Is the power supply properly connected and the power on/off button is on	Please check if the power adapter is connected properly and switch on the power on/off button
Screen splash	HDMI cable may not be HDMI 2.0 specification or the cable is too long	Please use the standard HDMI 2.0 cable, the input/output cable length does not exceed 5M 4K/60Hz 4:4:4, 4K@30Hz/1080p can reach 10M to 10M
No picture out only sound out or output pink screen	Maybe the displays can't support the resolution or the HDCP	Change a lower resolution of the input HDMI signal to check whether this issue or not; if not, maybe the customer should change a non-HDCP input source or HDCP compliant displays or devices
No picture out to a FHD TV when connecting a 4K@60Hz source, and have normal picture to the 4K HDR supported TV at the same time	Maybe the downscaler function can't support the input signal, such as 4K@60Hz 4:2:2 HDR signal(Dolby Vision) or when connect one FHD TV with a fixed 4K@60Hz output device	The downscaler function only support the 4K@60Hz 4:4:4 and 4:2:0(HDR 10) signal downscaler to 1080p signal, or there will not have picture output to the FHD TV, the customer need change a supported downscaler signal input.

## 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.

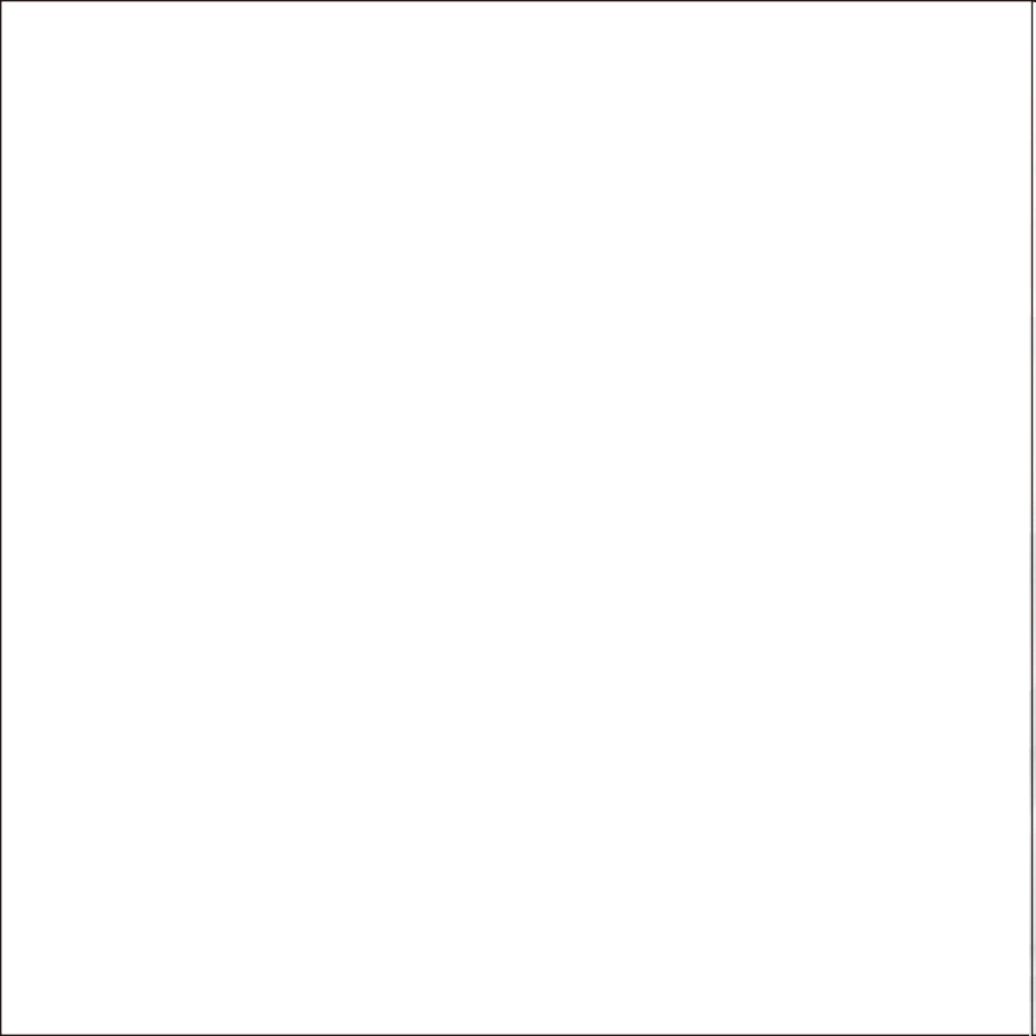
During the "Labor" limited warranty period, there will be no charge for labor. During the "Parts/warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers products purchased 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.





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