

J-TECH DIGITAL JTD-178 SDI Splitter



# J-TECH DIGITAL JTD-178 SDI Splitter User Manual

[Home](#) » [J-TECH DIGITAL](#) » J-TECH DIGITAL JTD-178 SDI Splitter User Manual 

## Contents

- [1 J-TECH DIGITAL JTD-178 SDI Splitter](#)
- [2 Product Information](#)
- [3 Safety Instructions](#)
- [4 Introduction](#)
- [5 Features](#)
- [6 Package Contents](#)
- [7 Specifications](#)
- [8 Operating Controls and Functions](#)
- [9 Application Example](#)
- [10 Maintenance](#)
- [11 Warranty](#)
- [12 Documents / Resources](#)
  - [12.1 References](#)
- [13 Related Posts](#)



**J-TECH DIGITAL JTD-178 SDI Splitter**



## Product Information

### Specifications

- **Frequency Bandwidth:** 3Gbps
- **Input Ports:** 1 x BNC Female Input Port
- **Output Ports:** 2 x BNC Female Output Ports
- **Power Supply:** DC 5V/1A
- **ESD Protection:** Human Body Model
- **Dimensions (W x D x H):** Not specified
- **Weight:** Not specified
- **Operating Temperature:** Not specified
- **Storage Temperature:** Not specified
- **Relative Humidity:** Not specified
- **Power Consumption:** Not specified

### Features

- 1 SDI input signal split to 2 SDI sink devices
- Supports SD-SDI (270Mb/s), HD-SDI (1.485Gb/s), and 3G-SDI (2.97Gb/s) video formats
- Built-in cable equalization, clock recovery, and drive
- Supports resolutions up to 1920×1080@60Hz
- Supports signal input and output distances of up to 984FT for SD signals, 656FT for HD signals, and 328FT for 3G signals
- Supports 5-12V wide voltage input

### Package Contents

- 1 x Splitter
- 1 x DC 5V/1A Power Supply

- 1 x User Manual

## **Operating Controls and Functions**

- The operating controls and functions are not specified in the user manual.

## **Application Example**

- The user manual does not provide an application example.

## **Maintenance**

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

## **Warranty**

- The warranty information is not specified in the user manual.

## **Mail-In Service**

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

## **Limited Warranty Limits and Exclusions**

- The limited warranty limits and exclusions are not specified in the user manual.

## **FAQ**

### **Q: Where can I find detailed digital resources regarding this unit?**

- **A:** You can scan the QR code provided or visit <https://resource.jtechdigital.com/products/178> to view and access detailed digital resources.

### **Q: What are the supported video formats?**

- **A:** The supported video formats are SD-SDI (270Mb/s), HD-SDI (1.485Gb/s), and 3G-SDI (2.97Gb/s).

### **Q: What is the maximum resolution supported?**

- **A:** The maximum supported resolution is 1920×1080@60Hz.

### **Q: What are the maximum signal input and output distances?**

- **A:** The maximum signal input and output distances are up to 984FT for SD signals, 656FT for HD signals, and 328FT for 3G signals.

## 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.
- Do not expose the product to such environments to prevent damage from direct sunlight or high temperatures.
- Do not place the product near heat sources like radiators, heat registers, stoves, 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.
- Unplug the power supply during lightning storms or prolonged periods of disuse to prevent damage.

## Introduction

- The JTDSDI0102 splitter distributes 1 SDI, HD-SDI, or 3G-SDI video source to 2 SDI/HD-SDI/3G-SDI displays simultaneously.
- This product features built-in automatic device identification and is compatible with SD-SDI, HD-SDI, and 3G-SDI formats of SDI signal.
- The JTDSDI0104 supports 2.97Gbps bandwidth, and lossless transmission over long distances.

## Features

- 1 SDI input signal split to 2 SDI sink devices.
- Supports SD-SDI (270Mb/s) | HD-SDI(1.485Gb/s) | 3G-SDI(2.97Gb/s) video formats.
- Built-in cable equalization, clock recovery, and drive.
- Supports resolutions up to 1920×1080@60Hz.
- Supports signal input and output distances of up to 984FT for SD signals, 656FT for HD signals, and 328FT for 3G signals.
- Supports 5-12V wide voltage input.

## Package Contents

- (1) x Splitter
- (1) x DC 5V/1A Power Supply
- (1) x User Manual

## Specifications

- **Frequency Bandwidth:** 3Gbps
- **Input Ports:** 1 x BNC Female Input Port
- **Output Ports:** 2 x BNC Female Output Ports
- **Power Supply:** DC 5V/1A
- **ESD Protection Human Body Model:** DC 5V/1A
  - 8kV (air-gap discharge)
  - 4kV (contact discharge)
- **Dimensions (W x D x H):** 2.75in x 5.70in x 0.98in
- **Weight:** 350g
- **Operating 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)
- **Power Consumption:** 1.5W

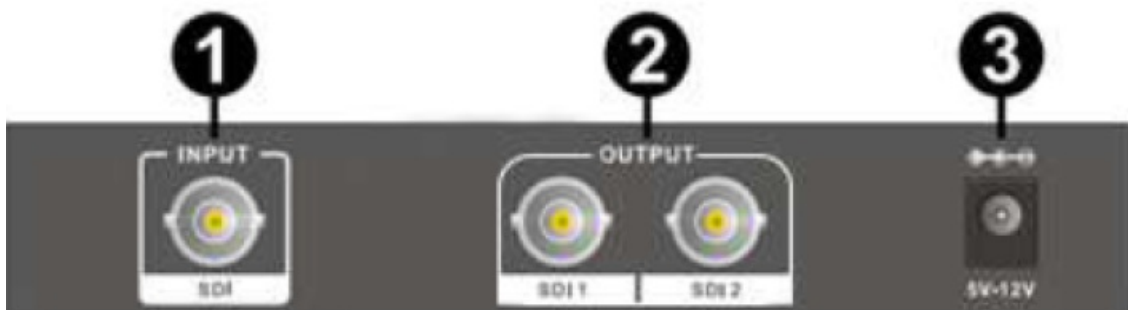
## Operating Controls and Functions

### Front Panel



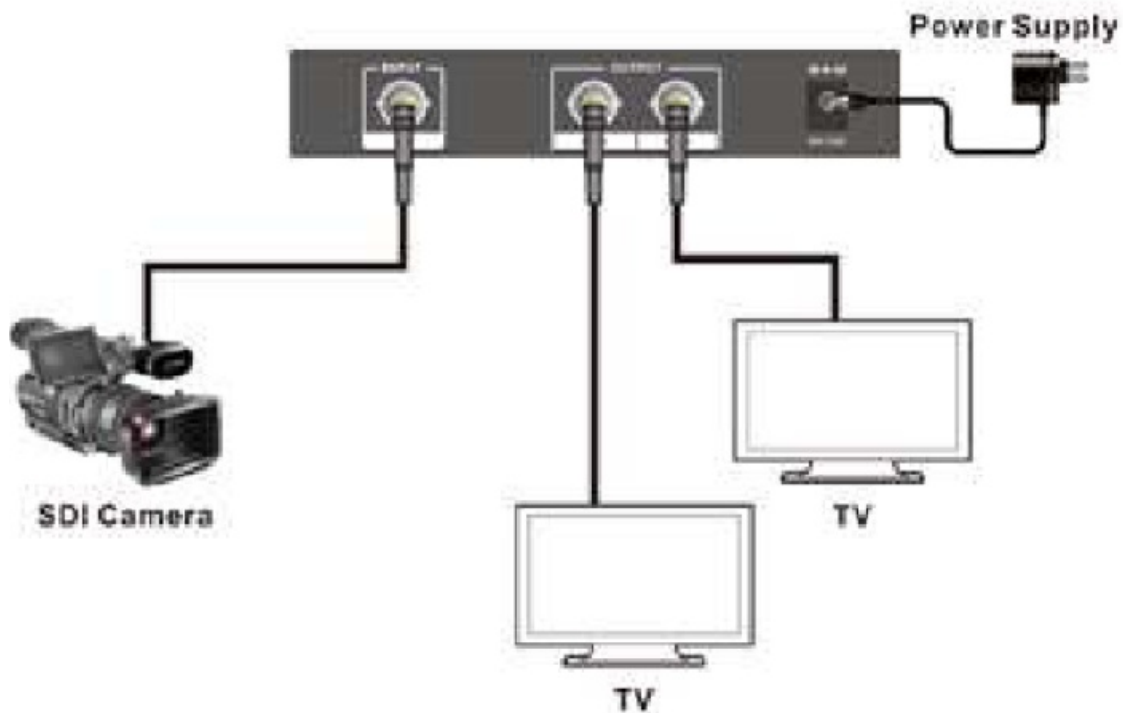
1. **ON/OFF:** Power on/off switch.
2. **POWER LED:** This red LED illuminates when the device is connected to the power supply.
3. **LOCK LED:** This red LED illuminates when the SDI signal is detected.

### Rear Panel



1. **SDI INPUT:** Use this port to connect the SDI source output from the SDI Camera.
2. **SDI OUTPUT:** Use these ports to connect the SDI displays or monitors with a coaxial cable (RG6).
3. **DC 5V-12V:** Plug the 5V or 12V DC power supply into the unit and connect the adapter to the AC wall outlet.

## Application Example



## Maintenance

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

## 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 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.

## 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 daytime phone or email address where you can be reached.

## 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 the 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, and 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 services, which are not covered by this limited warranty, are your responsibility.
- [WWW.JTECHDIGITAL.COM](http://WWW.JTECHDIGITAL.COM) PUBLISHED BY J-TECH DIGITAL INC.
- 9807 EMILY LANE
- STAFFORD, TX 77477
- TEL: 1-888-610-2818
- E-MAIL: [SUPPORT@JTECHDIGITAL.COM](mailto:SUPPORT@JTECHDIGITAL.COM)
- Scan the QR code below or visit <https://resource.jtechdigital.com/products/178> to view and access detailed digital resources regarding this unit.



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## Documents / Resources



[J-TECH DIGITAL JTD-178 SDI Splitter](#) [pdf] User Manual  
JTD-178 SDI Splitter, JTD-178, SDI Splitter, Splitter

## References

- [B J-Tech Digital ® Official Site | Professional AV Solution Provider](#)
- [J-Tech Digital SDI Splitter 1x2 up to 1320ft, SD-SDI, HD-SDI, 3G-SDI](#)
- [User Manual](#)

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