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J-Tech Digital JTDAT5CH

J-Tech Digital JTDAT5CH 4K@30Hz HDMI Audio Extractor Instruction Manual

Model: JTDAT5CH

1. Introduction

The J-Tech Digital JTDAT5CH HDMI Audio Extractor is designed to separate audio signals from an HDMI input, providing both HDMI pass-through and dedicated audio outputs. This device allows you to connect an HDMI source to a display while simultaneously sending the audio to a separate sound system via SPDIF (optical) or RCA stereo (L/R) connections. It supports video resolutions up to 4K@30Hz and offers flexible audio EDID settings.

2. Features

- Extracts digital audio from an HDMI input.
- Converts extracted audio to either 2-channel analog stereo (RCA L/R) or 5.1-channel digital audio (SPDIF).
- Supports video resolution up to **4K@30Hz**.
- Supports 225MHz/2.25Gbps per channel bandwidth.
- Supports 12-bit per channel (36-bit all channel) deep color.
- HDCP compliant and supports Video EDID Pass Through.
- Plug & Play functionality.
- Audio EDID Settings: **PASS**, **2CH** for L/R or SPDIF stereo output, and **5.1CH** for SPDIF output.
- Supports uncompressed audio formats like LPCM.
- Supports compressed audio formats like DTS Digital and Dolby Digital.
- Supports 3D video (requires all connected units to support 3D).
- Compatible with devices such as Apple TV, Blu-ray players, and satellite receivers.
- **Note:** ARC (Audio Return Channel) functionality is not supported.

3. Package Contents

Verify that all items are included in your package:

- 1x J-Tech Digital HDMI 2.1CH/5.1CH Audio Extractor (Model: JTDAT5CH)
- 1x DC 5V/1A Power Adapter
- 1x User Manual (This document)



Image: The package contents include the J-Tech Digital HDMI Audio Extractor unit, a DC 5V/1A power adapter, and a user manual.

4. Product Overview and Ports

The JTDAT5CH unit features clearly labeled ports and indicators for easy setup.



Image: Front view of the J-Tech Digital JTDAT5CH HDMI Audio Extractor with dimensions (3.3 inches L x 2.6 inches W x 0.8 inches H).



Image: Detailed view of the front and back panels of the J-Tech Digital JTDAT5CH HDMI Audio Extractor, showing all input and output ports.

Front Panel:

- **DC 5V:** Power input port.
- **PWR:** Power LED indicator (red).
- **HDMI IN:** HDMI input port for connecting your source device (e.g., DVD player, game console).
- **Audio Mode Switch (PASS/2CH/5.1CH):** Selects the desired audio output mode.

Rear Panel:

- **HDMI OUT:** HDMI output port for connecting to your display (e.g., HDTV).
- **SPDIF:** Optical digital audio output port.
- **L/R:** RCA stereo analog audio output ports (Left and Right).
- **HDMI Output LED:** Green indicator light for HDMI output connection.

5. Setup and Installation

Follow these steps to connect your J-Tech Digital JTDAT5CH HDMI Audio Extractor:

1. Connect your HDMI source device (e.g., DVD player, streaming box) to the **HDMI IN** port on the audio extractor using an HDMI cable.
2. Connect your display device (e.g., HDTV) to the **HDMI OUT** port on the audio extractor using an HDMI cable.
3. Connect your audio receiver or sound system to the audio extractor using one of the following methods:
    - For digital audio (5.1CH or 2CH stereo): Use an optical cable to connect the **SPDIF** output to your audio system.
    - For analog stereo audio (2CH): Use RCA L/R cables to connect the **L/R** outputs to your audio system.
4. Connect the included DC 5V/1A power adapter to the **DC 5V** port on the audio extractor and then plug it into a power outlet. The **PWR** LED will illuminate.
5. Select the desired audio mode using the **Audio Mode Switch** on the front panel:
    - **PASS:** The audio format from the HDMI input is passed directly to the HDMI output and SPDIF/RCA outputs without modification.
    - **2CH:** The audio is converted to 2-channel stereo for both SPDIF and RCA L/R outputs.
    - **5.1CH:** The audio is output as 5.1-channel surround sound via the SPDIF output (if supported by the source and receiver). RCA L/R will output 2-channel stereo.



Image: Diagram illustrating typical connection scenarios for the J-Tech Digital JTDAT5CH HDMI Audio Extractor, connecting a DVD player to an HD TV and a soundbar/headphone via SPDIF or L/R.

Official Product Video: J-Tech Digital HDMI Audio Extractor

Your browser does not support the video tag.

Video: An official product video from J-Tech Digital demonstrating the features and connectivity of the HDMI Audio Extractor.

6. Operation

Once all connections are made and the device is powered on, ensure your source device is playing content. The HDMI Output LED on the rear panel should illuminate green, indicating a successful HDMI connection to your display. Adjust the **Audio Mode Switch** to match your audio system's capabilities and your desired sound experience (PASS, 2CH, or 5.1CH).

For optimal performance, ensure all cables are securely connected and that your audio receiver or sound system is set to the correct input source corresponding to the audio extractor's output.

7. Specifications

Specification	Value
Brand	J-Tech Digital
Model	JTDAT5CH
Interface Type	HDMI
Audio Output Mode	2CH (Stereo), 5.1CH (Surround Sound)
Max Video Resolution	4K@30Hz
Bandwidth	225MHz/2.25Gbps per channel
Deep Color Support	12bit per channel (36bit all channel)
HDCP Support	Yes
Video EDID Pass Through	Yes
Supported Audio (Uncompressed)	LPCM
Supported Audio (Compressed)	DTS Digital, Dolby Digital
Item Dimensions (L x W)	3.3"L x 2.6"W
Item Weight	0.27 g
UPC	654367438947

8. Troubleshooting

- **No Audio Output:**
  - Ensure the power adapter is securely connected and the PWR LED is on.
  - Verify that the HDMI source is active and sending an audio signal.
  - Check the Audio Mode Switch setting (PASS, 2CH, 5.1CH) to ensure it matches your audio system's capabilities.
  - Confirm that your audio receiver/sound system is set to the correct input source.
  - Try different audio cables (optical, RCA) to rule out cable issues.
- **No Video Output:**
  - Ensure all HDMI cables are securely connected.
  - Verify that your display is set to the correct HDMI input.
  - Test with different HDMI cables.
  - Ensure the HDMI source is outputting a compatible video signal (up to 4K@30Hz).
- **Intermittent Audio/Video:**
  - Check all cable connections for looseness.
  - Ensure the power supply is stable.
  - Reduce cable lengths if possible, especially for HDMI.

- **Device is warm to the touch:**
    - The metal casing helps dissipate heat. Slight warmth during operation is normal. Ensure adequate ventilation around the unit.

9. Warranty and Support

J-Tech Digital is committed to providing high-quality audio-video solutions and customer support. If you encounter any issues or have questions regarding your JTDAT5CH HDMI Audio Extractor, please contact J-Tech Digital Customer Support:

- **Toll-Free (US):** 1-888-610-2818
- **Website:** www.jtechdigital.com
- **Email:** support@jtechdigital.com

For product reviews and feedback, you can also visit their social media pages:

- **Facebook:** https://www.facebook.com/J.Tech.Digital
- **Twitter:** https://twitter.com/jtechdigital

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