



J-TECH DIGITAL JTD-643 HDMI 2.0 Audio Extractor with Downmix User Manual

[Home](#) » [J-TECH DIGITAL](#) » J-TECH DIGITAL JTD-643 HDMI 2.0 Audio Extractor with Downmix User Manual 



USER MANUAL



HDMI 2.0 Audio Extractor w/ Downmix
JTD-643 | JTECH-EXD2

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Contents

- 1 Introduction**
- 2 Features**
- 3 Package Contents**
- 4 Specifications**
- 5 Operation Controls and Functions**
 - 5.1 Front Panel**
 - 5.2 Rear Panel**
- 6 Application Example**
- 7 Documents / Resources**
- 8 Related Posts**

Introduction

The JTECH-EXD2 HDMI 18Gbps Audio Extractor can extract audio signals from any HDMI compliant source to digital optical or analog stereo L/R audio outputs. For maximum flexibility, this audio extractor also supports bitstream audio down-mix to analog stereo output and keeps optical and HDMI out audio pass-through. Further, both input and output HDMI support video resolutions up to 4K 60Hz (YUV444). The JTECH-EXD2 supports 10bit HDR (High Dynamic Range) pass through and HDMI high-resolution digital audio formats; LPCM 2CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio. HDCP 2.2 and CEC bypass are supported.



DOLBY

AUDIO Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.



For DTS patents, see <http://patents.dts.com>. Manufactured under license from DTS Licensing Limited. DTS, the Symbol, DTS and the Symbol together, and Digital Surround are registered trademarks or trademarks of DTS, Inc. in the United States and/or other countries. © DTS, Inc. All Rights Reserved.

Features

- HDMI 2.0b (18Gbps) | HDCP 2.2 and DVI Compliant
- Video Resolutions up to 4K@60Hz (YUV444)
- Extracts HDMI Audio to Optical (SPDIF) or L/R analog audio
- HDMI Input Audio Pass-Thru to HDMI and Optical Audio Outputs
- Supports Bitstream Audio Downmix to L/R Analog Output
- Optical Audio Supports LPCM 2CH | Dolby Digital 5.1CH | DTS 5.1CH
- Supports HDMI High Bit Rate (HBR) Audio Pass-Thru
- Audio Sample Rates up to 96kHz
- 10-bit HDR (High Dynamic Range) Pass-Thru
- Supports CEC Pass-Thru

Package Contents

1. 1× JTECH-EXD2 Audio Extractor
2. 1× 5V/1A Power Adapter
3. 1× User Manual

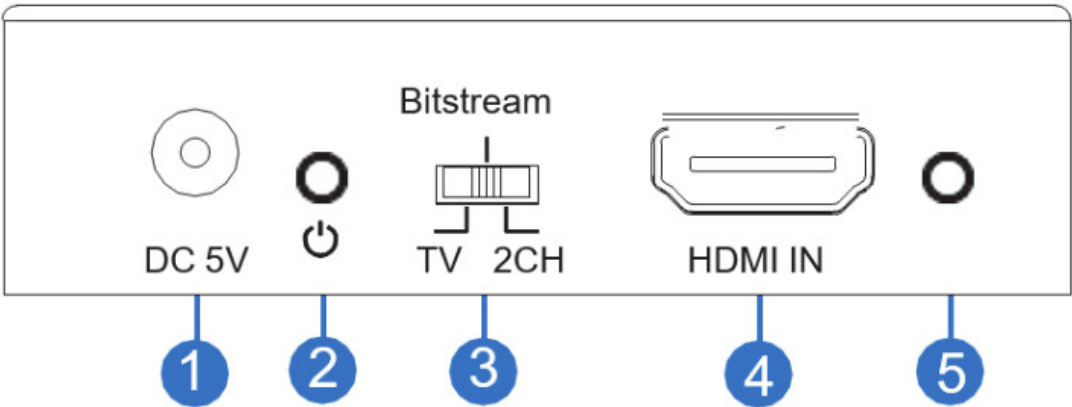
Specifications

| Technical | |
|-----------------------------------|---|
| HDMI Compliance | HDMI 2.0b |
| HDCP Compliance | HDCP 2.2 and HDCP 1.4 |
| Video Bandwidth | 18Gbps |
| Video Resolutions | Up to 4K2K@50/60Hz(YUV4:4:4), 4K2K@30Hz, 1080P@120Hz, and 1080P 3D@60Hz |
| Color Space | RGB, YCbCr 4:4:4, YCbCr 4:2:2 |
| Color Depth | 10-bit 112-bit |
| HDMI Audio Formats (Pass-through) | LPCM 2/5.1/7.1CH ,Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X |
| Optical Audio Formats | LPCM 2CH, Dolby Digital 2/5.1 CH, DTS 2/5.1CH |
| L/R Audio Formats | Analog Stereo 2CH |
| ESD Protection | Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge) |

| Connections | |
|-----------------------|---|
| Inputs | 1x HDMI Type A [19-pin female] |
| Outputs | 1x HDMI Type A [19-pin female] 1x UR Audio Out [RCA] 1x Optical Out [S/PDIF] |
| Mechanical | |
| Housing | Metal Enclosure |
| Color | Black |
| Dimensions | 2.89 in [W] x 2.39 in [D] x 0.79 in[H] |
| Weight | 0.30 lbs. |
| Power Supply | Input: AC100 – 240V 50/60Hz Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified) |
| Power Consumption | 1.25W (Max) |
| Operation Temperature | 32 – 104°F / 0 – 40°C |
| Storage temperature | -4 – 140°F / -20 – 60°C |
| Relative Humidity | 20 – 90% RH (no condensation) |

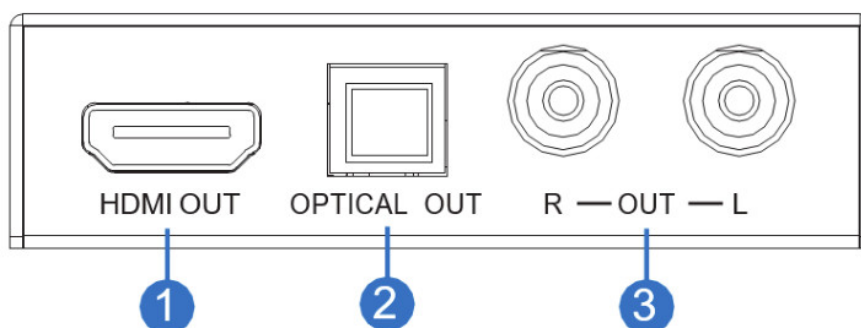
Operation Controls and Functions

Front Panel



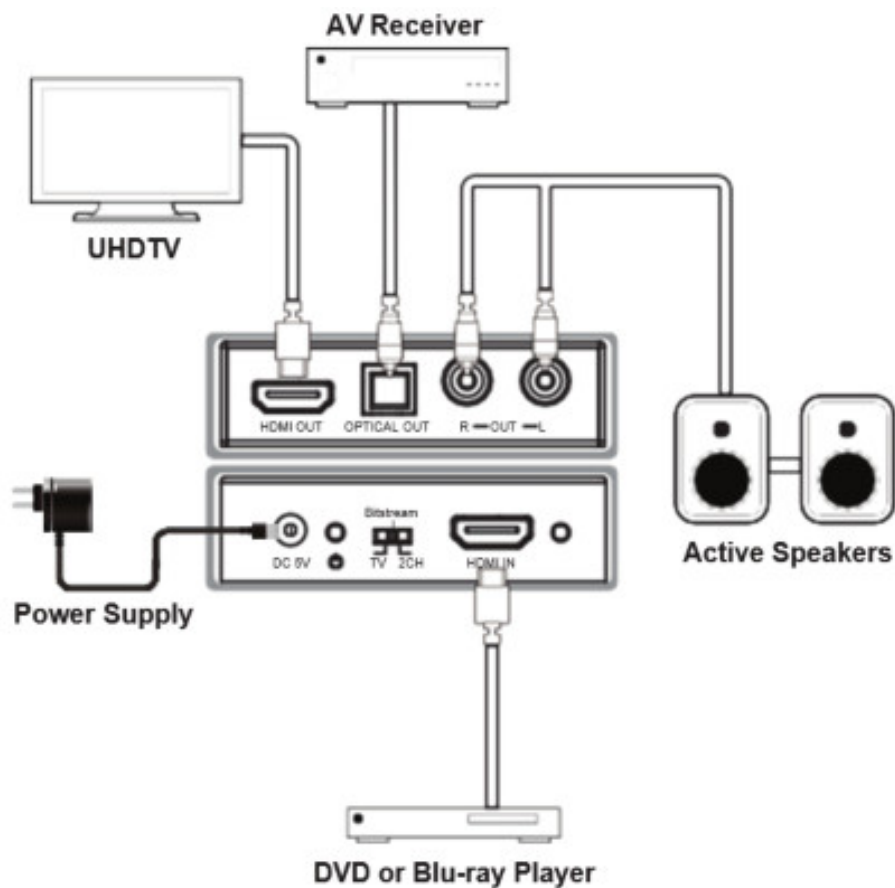
| Number | Name | Function Description |
|--------|-------------|--|
| 1 | DC 5V | Connect 5V/1A adapter to AC wall outlet for power supply |
| 2 | Power LED | Power Status LED Indicator |
| 3 | EDID Toggle | TV – Pass-Thru TV's EDID Bitstream — Provide 5.1ch Audio Format EDID 2CH – Provide 2CH Audio Format EDID |
| 4 | HDMI IN | HDMI Video Input Port |
| 5 | Status LED | Red Illuminate: PCM decoder or no signal Red Blinking: Dolby decoder Green Blinking: DTS decoder |

Rear Panel



| Number | Name | Function Description |
|--------|-------------|-------------------------------------|
| 1 | HDMI OUT | HDMI Output Port |
| 2 | OPTICAL Out | Toslink Digital Audio Output Port |
| 3 | R/L OUT | Stereo RCA Analog Audio Output Port |

Application Example



J-TECH DIGITAL INC
12803 PARK ONE DRIVE
SUGAR LAND, TX 77478
TEL: 1-888-610-2818
E-MAIL: SUPPORT@JTECHDIGITAL.COM



WWW.JTECHDIGITAL.COM
PUBLISHED BY J-TECH DIGITAL, INC.
12803 PARK ONE DRIVE
SUGAR LAND, TX 77478

Documents / Resources



[J-TECH DIGITAL JTD-643 HDMI 2.0 Audio Extractor with Downmix](#) [pdf] User Manual
JTD-643, JTECH-EXD2, JTD-643 HDMI 2.0 Audio Extractor with Downmix, HDMI 2.0 Audio Ex
tractor with Downmix, 2.0 Audio Extractor with Downmix, 2.0 Audio Extractor