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Neoteck 8541711453

Neoteck 1080P HDMI Audio Extractor User Manual

Model: 8541711453

1. INTRODUCTION

The Neoteck 1080P HDMI Audio Extractor is designed to separate audio signals from an HDMI input. It allows you to connect an HD source to a single HD display while simultaneously extracting audio to Optical TOSLINK SPDIF and Analog RCA L/R stereo outputs. This device is ideal for integrating modern HDMI devices with older audio systems that lack HDMI input.

2. PRODUCT FEATURES

- **HDMI Audio Extraction:** Converts HDMI input to HDMI output with additional Optical TOSLINK SPDIF and Analog RCA L/R audio outputs.
- **High Resolution Support:** Supports input resolutions up to 1080P (50/60Hz), compatible with 24/50/60fs/1080P/1080i/720P/576P/576i/480P/480i.
- **HDCP Version:** Supports HDCP 1.3.
- **Audio EDID Settings:** Features three audio mode options: Pass, 2CH, and 5.1CH for flexible audio output.
- **Analog Audio Output:** RCA L/R output supports 2CH PCM stereo audio and 5.1CH digital audio.
- **Digital Audio Output:** SPDIF output supports 2CH PCM, 5.1CH Digital, and DTS audio.
- **Durable Design:** Metal casing provides overall shielding to prevent signal interference.
- **Enhanced Signal Transmission:** Gold-plated HDMI sockets improve HD video signal transmission over long distances.
- **Color Format Support:** Compatible with 24bit/deep color 30bit, 36bit video color formats.

3. PACKAGE CONTENTS

- Neoteck HDMI Audio Extractor Unit
- 5V USB Power Cable
- User Manual (this document)

4. PRODUCT DIAGRAM

Familiarize yourself with the input and output ports on the Neoteck HDMI Audio Extractor.



Figure 1: Front and Rear Panel Layout of the HDMI Audio Extractor. The front panel includes the DC 5V power input, HDMI IN port, and the EDID switch (PASS, 2CH, 5.1CH). The rear panel features the HDMI OUT port, SPDIF optical audio output, and L/R RCA analog audio outputs.

5. SETUP INSTRUCTIONS

Follow these steps to connect your Neoteck HDMI Audio Extractor:

1. Connect your HDMI source device (e.g., Blu-ray player, PS4, Sky HD Box) to the **HDMI IN** port on the extractor using an HDMI cable.
2. Connect the **HDMI OUT** port of the extractor to your display device (e.g., TV, monitor, projector) using another HDMI cable.
3. Connect your audio receiver, soundbar, or speakers to the extractor using either the **SPDIF** optical cable or **RCA L/R** analog cables, depending on your audio system's input capabilities.
4. Connect the provided **5V USB Power Cable** to the DC 5V input on the extractor and then to a 5V 1A USB power adapter (not included, typically a mobile phone charger) or a USB port on your source device/display. Ensure the power indicator light on the extractor illuminates.
5. Select the desired audio EDID mode (PASS, 2CH, or 5.1CH) using the switch on the extractor. Refer to Section 6 for details on each mode.
6. Power on all connected devices.

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Video 1: This video demonstrates the unboxing, physical connection of the Neoteck HDMI Audio Extractor to a PS4 and TV, and the necessary PS4 audio output settings for proper functionality.

6. OPERATING INSTRUCTIONS

The Neoteck HDMI Audio Extractor features an EDID (Extended Display Identification Data) switch to control the audio output format. Select the appropriate mode based on your audio setup:

6.1. PASS Mode

In PASS mode, the SPDIF output audio format is determined by the EDID of the connected TV or display. This means the extractor will pass through the audio format as received from the source, allowing the display to negotiate the best audio format with the source device.

PASS MODE

The SPDIF output audio format depends on the TV EDID



Figure 2: Connection diagram for PASS mode. A Blu-ray DVD player connects to the HDMI IN. HDMI OUT connects to an HDTV. The SPDIF output connects to an amplifier. The EDID switch is set to PASS.

6.2. 2CH Mode

When set to 2CH mode, the SPDIF output audio format will be LPCM 2CH (stereo). This mode is suitable for stereo audio systems or when your display/audio receiver only supports 2-channel audio.

2 CH MODE

The SPDIF output audio format is LPCM 2CH



Figure 3: Connection diagram for 2CH mode. A PS3 connects to the HDMI IN. HDMI OUT connects to an HDTV. The L/R RCA outputs connect to stereo speakers. The EDID switch is set to 2CH.

6.3. 5.1CH Mode

For 5.1CH audio output via SPDIF, ensure your source audio is 5.1CH and set the extractor to 5.1CH mode. This mode is designed for surround sound systems that can decode 5.1 channel digital audio.

5.1CH MODE

The SPDIF output audio format is 5.1 CH(the source audio must be 5.1 CH)



Figure 4: Connection diagram for 5.1CH mode. A Blu-ray DVD player connects to the HDMI IN. HDMI OUT connects to an HDTV. The SPDIF output connects to a 5.1 channel amplifier. The EDID switch is set to 5.1CH.

6.4. PS4 Audio Settings

When using with a PS4, navigate to the PS4's audio settings and ensure the audio output format is set to **Linear PCM** for optimal compatibility with the extractor's 2CH mode. For 5.1CH, ensure the PS4 output is set to Bitstream (Dolby) or Bitstream (DTS) and the extractor is in 5.1CH mode.

7. IMPORTANT NOTES AND COMPATIBILITY

- HDCP 1.4 4K Incompatibility:** This device is not compatible with HDCP 1.4 4K content.
- Amazon Fire TV/Stick Incompatibility:** The extractor is not compatible with Amazon Fire TV or Fire TV Stick devices.
- Power Requirement:** The 5V USB power cable requires a 5V 1A charger (e.g., a mobile phone charger) for stable operation.
- No HDMI ARC Support:** This device cannot convert audio from a TV's HDMI ARC (Audio Return Channel) port to optical or RCA outputs.

Can NOT Support HDMI ARC Function



Figure 5: The extractor does not support HDMI ARC. Audio from a TV's ARC port cannot be extracted via this device.

- **Streaming Service Limitations:** Not compatible with Netflix and YouTube video websites for audio extraction.
- **Converter Stacking:** This device is not designed to be used in conjunction with other converters, such as HDMI to DVI converters.



Figure 6: The extractor connected in a typical setup, highlighting important compatibility notes regarding Netflix, YouTube, and other converters.

8. MAINTENANCE

To ensure the longevity and optimal performance of your Neoteck HDMI Audio Extractor, follow these maintenance guidelines:

- Keep the device in a cool, dry place, away from direct sunlight, heat sources, and moisture.
- Clean the device with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- Avoid blocking ventilation openings.
- Do not attempt to open or repair the device yourself, as this will void the warranty.

9. TROUBLESHOOTING

If you encounter issues with your HDMI Audio Extractor, refer to the following common troubleshooting steps:

- **No Video Output:**

- Ensure all HDMI cables are securely connected.
- Verify the extractor is receiving power and the power indicator light is on.
- Check the input source and display settings to ensure they are correctly configured.
- Test with different HDMI cables or a different HDMI source/display if possible.

- **No Audio Output:**

- Confirm that the audio cables (SPDIF or RCA) are correctly connected to your audio system.
- Check the EDID switch setting on the extractor. Try switching between PASS, 2CH, and 5.1CH modes.
- Ensure your audio receiver/soundbar is set to the correct input source and volume.
- Verify the audio output settings on your source device (e.g., PS4, Blu-ray player) are configured correctly (e.g., Linear PCM for 2CH, Bitstream for 5.1CH).
- If using 5.1CH mode, confirm your source is outputting 5.1 channel audio.

- **Poor Audio Quality:**

- Ensure all cables are high quality and securely connected.
- Check for interference from other electronic devices.
- Adjust the audio settings on your source device and audio receiver.

- **Incompatibility Issues:**

- Remember the device does not support HDCP 1.4 4K, Amazon Fire TV/Stick, or HDMI ARC.
- Avoid using with Netflix or YouTube video websites for audio extraction.

10. SPECIFICATIONS

Specification	Detail
Brand	Neoteck
Model Number	8541711453
Interface Type	HDMI
Maximum Resolution	1080P (50/60Hz)
HDCP Version	1.3
Audio Output	Optical TOSLINK SPDIF, Analog RCA L/R
Audio Modes	Pass, 2CH, 5.1CH
Video Color Format	24bit/deep color 30bit, 36bit
Power Supply	DC 5V (requires 5V 1A adapter)
Product Dimensions	3.33" L x 2.43" W
Item Weight	4.5 ounces
Operating Temperature	Up to 55 Degrees Celsius

11. WARRANTY AND SUPPORT

Neoteck products are designed for reliability and performance. For warranty information and technical support, please refer to the contact details provided with your purchase or visit the official Neoteck website. Keep your purchase receipt as proof of purchase for warranty claims.