

MONOPRICE

Blackbird™ 4K HDMI® Audio Extractor

P/N 24278

User's Manual

SAFETY WARNINGS AND GUIDELINES

Please read this entire manual before using this device, paying extra attention to these safety warnings and guidelines. Please keep this manual in a safe place for future reference.

- This device is intended for indoor use only.
- Do not expose this device to water or moisture of any kind. Do not place drinks or other containers with moisture on or near the device. If moisture does get in or on the device, immediately unplug it from the power outlet and allow it to fully dry before reapplying power.
- Do not touch the device, the power cord, or any other connected cables with wet hands.
- Do not expose this device to excessively high temperatures. Do not place it in, on, or near heat sources, such as a fireplace, stove, radiator, etc. Do not leave it in direct sunlight.
- Prior to operation, check the unit and power cord for physical damage. Do not use if physical damage has occurred.
- Before plugging the unit into a power outlet, ensure that the outlet provides the same type and level of power required by the device.
- Unplug this device from the power source when not in use.
- Take care to prevent damage to the power cord. Do not allow it to become crimped, pinched, walked on, or become tangled with other cords. Ensure that the power cord does not present a tripping hazard.
- Never unplug the unit by pulling on the power cord. Always grasp the connector head or adapter body.
- Ensure that power is turned off and disconnected before making any electrical connections.
- Clean using a soft, dry cloth only. Do not use chemical cleaners, solvents, or detergents. For stubborn deposits, moisten the cloth with warm water.
- This device has no user serviceable parts. Do not attempt to open, service, or modify this device.

INTRODUCTION

Thank you for purchasing this Blackbird™ 4K HDMI® Audio Extractor! This device extracts the audio signals from HDMI video streams. It supports analog stereo audio, as well as high-definition multichannel audio streams over the S/PDIF digital optical audio output. It supports video resolutions up to 4K@60Hz 4:4:4, 10-bit High Dynamic Range (HDR) pass-through, and audio sampling rates up to 192kHz. It is fully compliant with the HDMI 2.0b and HDCP 2.2 standards and provides up to 18Gbps video bandwidth.

FEATURES

- Extracts audio from an HDMI® video signal
- Supports stereo analog and multichannel digital optical S/PDIF audio
- Supports video resolutions up to 4K@60Hz 4:4:4
- Supports 10-bits High Dynamic Range (HDR) pass-through
- Supports CEC bypass
- Supports audio sampling rates up to 192kHz
- Provides up to 18Gbps video bandwidth

CUSTOMER SERVICE

The Monoprice Customer Service department is dedicated to ensuring that your ordering, purchasing, and delivery experience is second to none. If you have any problem with your order, please give us an opportunity to make it right. You can contact a Monoprice Customer Service representative through the Live Chat link on our website www.monoprice.com during normal business hours (Mon-Fri: 5am-7pm PT, Sat-Sun: 9am-6pm PT) or via email at support@monoprice.com

PACKAGE CONTENTS

Please take an inventory of the package contents to ensure you have all the items listed below. If anything is missing or damaged, please contact Monoprice Customer Service for a replacement.

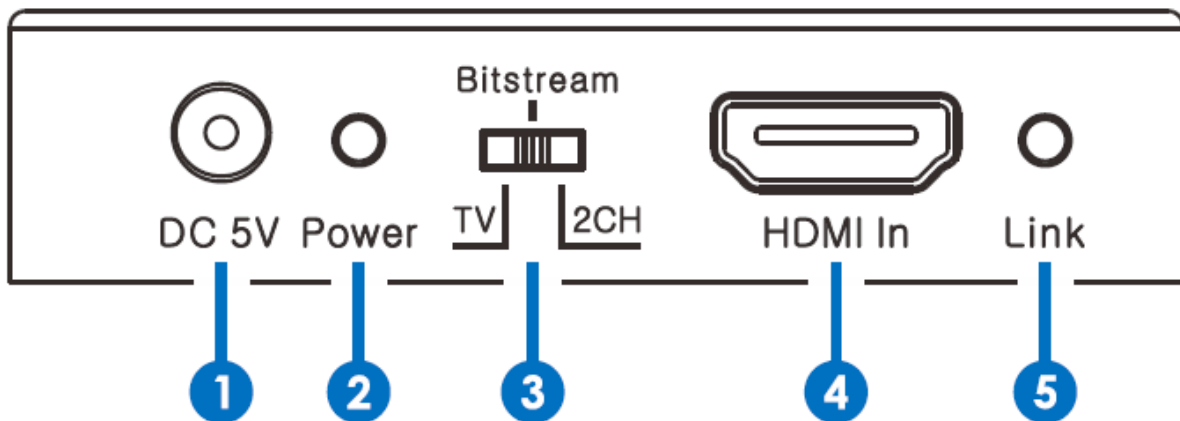
1x HDMI® audio extractor

1x AC power adapter

1x User's manual

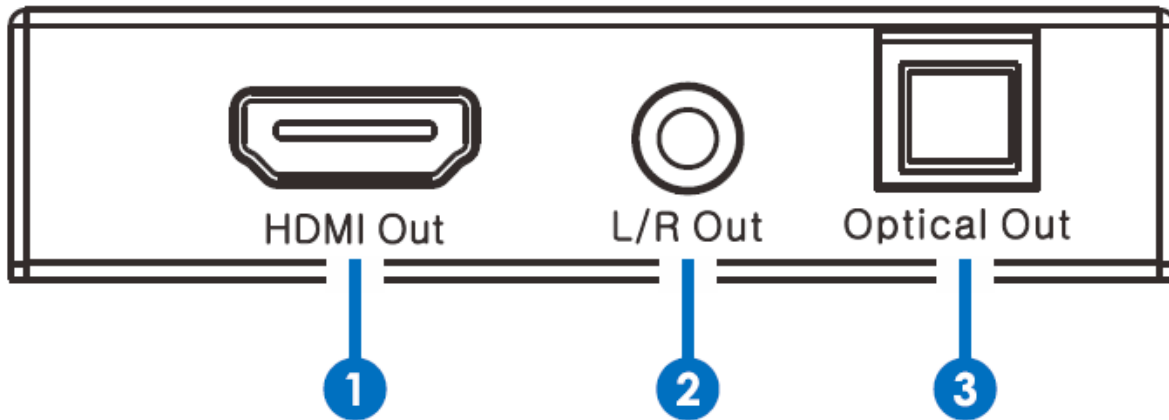
PRODUCT OVERVIEW

Front Panel



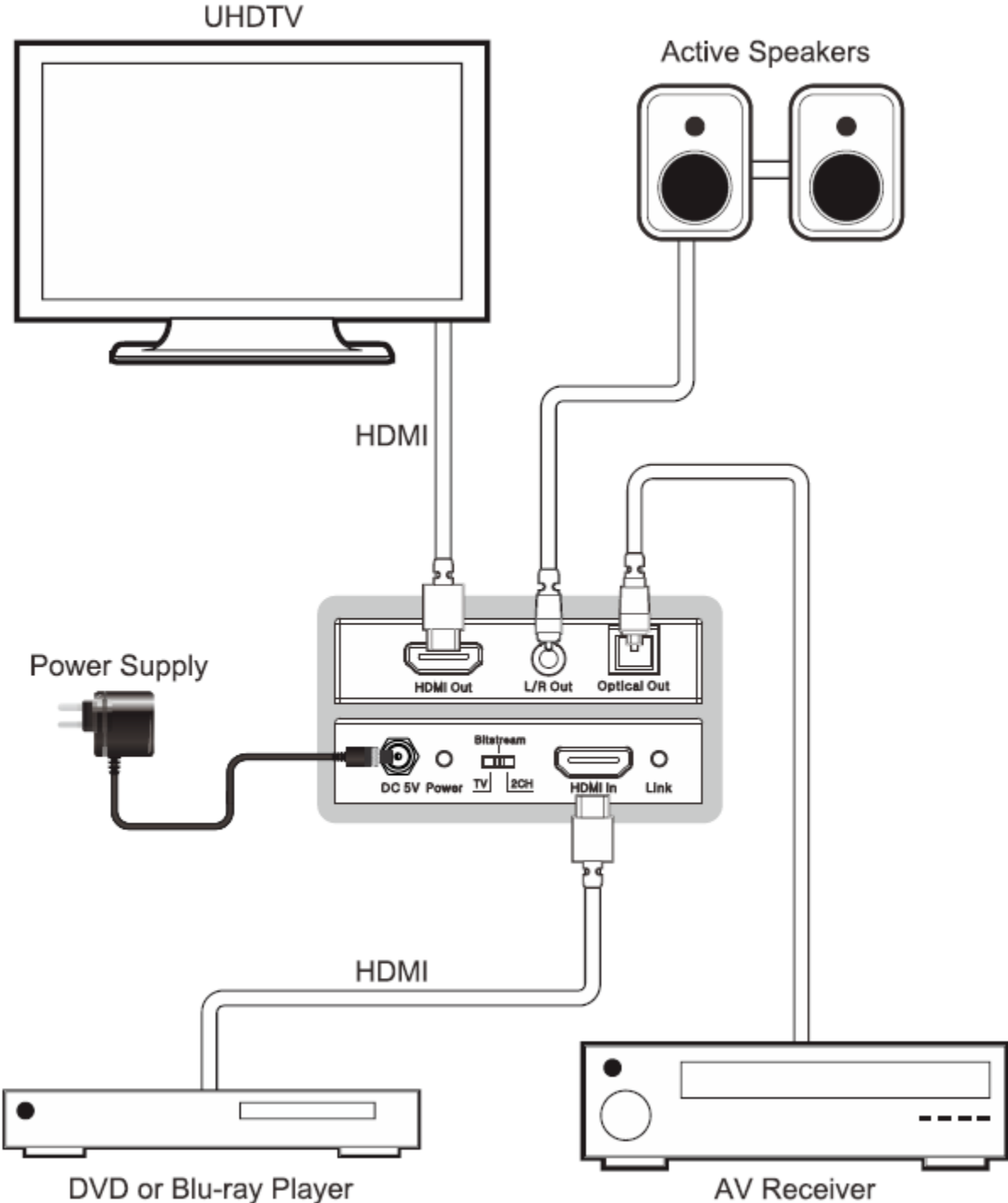
1. **DC 5V:** DC barrel connector for connecting the included AC power adapter.
2. **Power LED:** The LED illuminates when power is applied.
3. **TV/Bitstream/2CH Switch:** Allows selection of the audio format. The **TV** option sets the audio output to that of the connected display. The **Bitstream** option passes through the audio output from the video source device and the **2CH** option sets to audio to 2-channel stereo.
4. **HDMI In:** HDMI® connector for connecting the HDMI video source.
5. **Link LED:** The LED illuminates when an HDMI signal is detected.

Rear Panel



1. **HDMI Out:** HDMI® connector for connecting the video display or other output device.
2. **L/R Out:** 3.5mm TRS stereo analog audio output jack.
3. **Optical Out:** Digital optical S/PDIF audio output jack.

SAMPLE CONNECTION DIAGRAM



INSTALLATION

1. Ensure that all equipment to be connected is powered off and unplugged from its power source.
2. Place or mount the Audio Extractor at the desired location.
3. (Optional) Using a digital optical S/PDIF cable (not included), plug one end into the digital optical input on your amplifier or receiver, then plug the other end into the **Optical Out** jack on the extractor.
4. (Optional) Using a 3.5mm stereo audio cable (not included), plug one end into the audio input of your amplifier or receiver, then plug the other end into the **L/R Out** jack on the extractor.
5. Using a High Speed HDMI® Cable (not included), plug one end into the HDMI input on your television, then plug the other end into the **HDMI Out** jack on the extractor.
6. Using a High Speed HDMI Cable (not included), plug one end into the **HDMI In** jack on the extractor, then plug the other end into the HDMI output on your video source device.
7. Plug the DC barrel connector on the included AC power adapter into the **DC 5V** jack on the extractor, then plug the adapter into a nearby AC power adapter. The **Power** LED will illuminate to indicate that power has been applied.
8. Plug in and power on all connected equipment. Start video playback on your video source device. The **Link** LED should illuminate when the HDMI video is detected. Verify that video can be seen on the connected display and that audio is being extracted to your amplifier or receiver.

TECHNICAL SUPPORT

Monoprice is pleased to provide free, live, online technical support to assist you with any questions you may have about installation, setup, troubleshooting, or product recommendations. If you ever need assistance with your new product, please come online to talk to one of our friendly and knowledgeable Tech Support Associates. Technical support is available through the online chat button on our website www.monoprice.com during regular business hours, 7 days a week. You can also get assistance through email by sending a message to tech@monoprice.com

SPECIFICATIONS

Model	24278
HDMI® Version	2.0b with HDCP 2.2
Maximum Video Resolution	4K@60Hz 4:4:4 including 1080p@120Hz and 1080p 3D@60Hz
Color Space Support	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	up to 12-bits per channel (36-bits total)
Input Power	5 VDC, 1A
AC Adapter Input Power	100 ~ 240 VAC, 50/60Hz
Maximum Power Consumption	1 watt
Operating Temperature	+32 ~ +104°F (0 ~ +40°C)
Storage Temperature	-4 ~ +140°F (-20 ~ +60°C)
Operating Humidity	20 ~ 90% RH, non-condensing
Dimensions	2.9" x 2.4" x 0.7" (74 x 61 x 17 mm)
Weight	4.6 oz. (130g)
Regulatory Compliance	CE, FCC, UL

REGULATORY COMPLIANCE

Notice for FCC



Modifying the equipment without Monoprice's authorization may result in the equipment no longer complying with FCC requirements for Class B digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice for Industry Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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