

BLACKBIRD™

8K Dual Function HDMI® Splitter/Switch



P/N 44086

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 remove it from its power source 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 excessive vibration or extreme force, shock, or fluctuations in temperature or humidity.
- Do not expose this device to excessively high temperatures. Do not place it in, on, or near a heat source, such as a fireplace, stove, radiator, etc. Do not leave it in direct sunlight.
- Do not place or install this device in an area where it can be exposed to excessive amounts of dust, humidity, oil, smoke, or combustible vapors.
- 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.
- The remote control for this device contains a Lithium battery. Dispose of it only in accordance with local, state, or federal regulations for electronic waste.

- 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

This 8K Dual Function HDMI® Splitter/Switch allows you to switch between either of two HDMI inputs and distribute the signal to two HDMI displays. It supports HDMI video resolutions up to 8K@60Hz with the YCbCr 4:2:0 color space, as well as multichannel compressed and uncompressed audio streams. It complies with the HDMI 2.1 and HDCP™ 2.3 specifications and can deliver up to 40Gbps video bandwidth. It includes DIP switches to manage the EDID® settings.

FEATURES

- Switches between either of two inputs and distributes the signal to two HDMI® displays
- Supports video resolutions up to 8K@60Hz 10-bit with the YCbCr 4:2:0 color space, including 8K@30Hz 10-bit with YCbCr 4:4:4, and 4K@120Hz 10-bit with YCbCr 4:4:4
- Complies with the HDMI 2.1 and HDCP™ 2.3 specifications
- Delivers up to 40Gbps video bandwidth
- Supports HDR, HDR10, HDR10+, Dolby Vision™, and Hyper Log Gamma (HLG) passthrough
- Supports multichannel compressed and uncompressed audio streams, Including LPCM, Dolby Digital™, Dolby Digital Plus™, Dolby Digital EX, Dolby TrueHD™, DTS®, DTS:X®, DTS 96/24, DTS High Res, DTS-HD Master Audio, and Direct Stream Digital™ (DSD)
- Supports the Variable Refresh Rate (VRR), Fast as Possible V-active (FVA), and Auto Low Latency Mode (ALLM) HDMI features
- Built-in signal equalizer with retiming
- Advanced EDID® management
- Can be controlled using the front panel button or the included IR remote control

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 or via email at support@monoprice.com. Check the website for support times and links.

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 8K Dual Function HDMI® Splitter/Switch

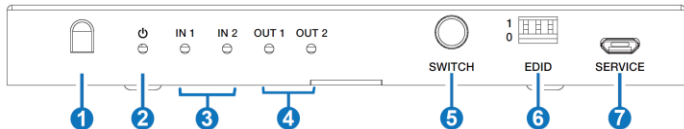
1x IR Remote Control

1x AC Power Adapter (5 VDC, 2A)

1x User's Manual

PRODUCT OVERVIEW

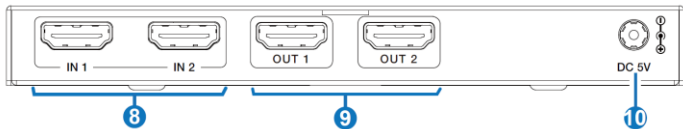
Front Panel



1. **IR:** IR window for receiving signals from the included remote control.
2. **POWER:** The LED illuminates green when the device is powered on. It illuminates red when the device is in standby mode.

- IN 1/IN 2:** One of the two LEDs will illuminate green when the corresponding input is selected.
- OUT 1/OUT 2:** Each LED illuminates green when there is an active signal and connection for the corresponding output.
- SWITCH:** Press the button two switch between the two inputs.
- EDID:** Three DIP switches used to set the EDID®. Refer to the *EDID MANAGEMENT* section for details.
- SERVICE:** Micro USB port for performing a firmware update, in the event that a newer firmware is available.

Rear Panel



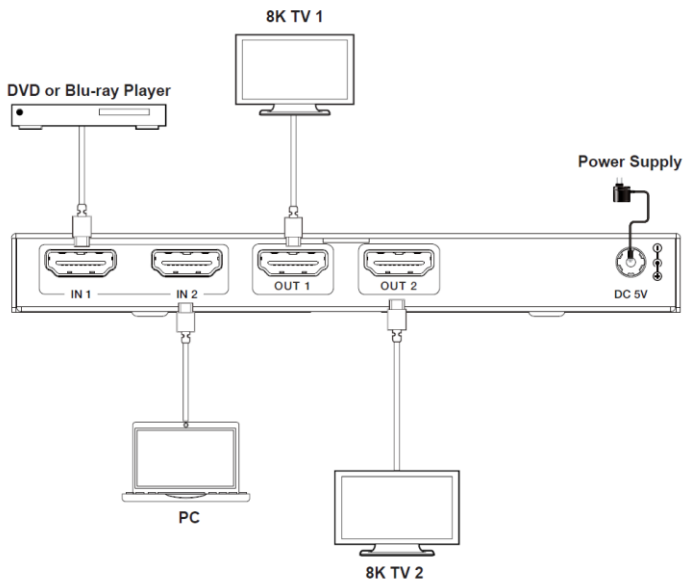
- IN 1/IN 2:** HDMI® ports for connecting up to two video source devices.
- OUT 1/OUT 2:** HDMI ports for connecting up to two HDMI displays.
- DC 5V:** DC barrel connector for connecting the included AC power adapter.

Remote Control

- POWER:** Press the **POWER** button to turn unit on or to put it into standby mode.
- INPUT 1/2:** Press one of the numbered buttons to select the corresponding input.
- CYCLE:** Press the button to cycle between the two inputs.



SAMPLE CONNECTION DIAGRAM



HDMI CABLE SELECTION

Which type of HDMI® cable you should use depends on the maximum resolution you will be using in your system. The following table details the ideal types and length limits of cable to use under various conditions.

Resolution	Cable Type	Version	Maximum Cable Length
8K	Ultra High Speed HDMI Cable	2.1	10 feet/3 meters
4K@60Hz	Premium High Speed HDMI Cable	2.0	26 feet/8 meters
4K@24Hz	High Speed HDMI Cable	1.4	39 feet/12 meters
1080p@60Hz	High Speed HDMI Cable	1.4	49 feet/15 meters

EDID MANAGEMENT

The following table shows the DIP switch positions for each available EDID® option.

DIP Switches	Description
000	HDMI® 8K@60Hz 4:2:0+8K@30Hz 4:4:4, 4K@120Hz 4:4:4, Audio 7.1ch PCM/DTS/Dolby®/HD, HDR
001	HDMI 8K@60Hz 4:2:0+8K@30Hz 4:4:4, 4K@120Hz 4:4:4, Audio 5.1ch PCM/DTS/Dolby, HDR
010	HDMI 8K@60Hz 4:2:0+8K@30Hz 4:4:4, 4K@120Hz 4:4:4, Audio 2ch PCM, HDR
011	HDMI 4K@60Hz 4:4:4, Audio 7.1ch PCM/DTS/Dolby/HD, HDR
100	HDMI 4K@60Hz 4:4:4, Audio 5.1ch PCM/DTS/Dolby, HDR
101	HDMI 4K@60Hz 4:4:4, Audio 2ch PCM, HDR
110	HDMI 1080p@60Hz, Audio 2ch PCM
111	Copy the EDID of the display connected to OUT 1 (default)

SPECIFICATIONS

P/N	44086
Inputs	2x HDMI®
Outputs	2x HDMI
HDMI Version	2.1
HDCP™ Version	2.3
Maximum Video Resolutions	8K@60Hz 10-bit YCbCr 4:2:0 8K@30Hz 10-bit YCbCr 4:4:4 4K@120Hz 10-bit YCbCr 4:4:4
Video Bandwidth	40Gbps
Color Depth	8-bit, 10-bit, 12-bit
Supported Color Spaces	RGB, YCbCr 4:4:4/4:2:0
Supported Audio Formats	LPCM, Dolby Digital™, Dolby Digital Plus™, Dolby Digital EX, Dolby TrueHD™, DTS®, DTS:X®, DTS 96/24, DTS High Res, DTS-HD Master Audio, and Direct Stream Digital™ (DSD)
Input Power	5 VDC, 2A
AC Adapter Input Power	100 ~ 240 VAC, 50/60 Hz
Maximum Power Consumption	6.15 watts
Operating Temperature	+32 ~ +104°F (0 ~ +40°C)
Storage Temperature	-4 ~ +140°F (-20 ~ +60°C)
Operating Humidity	20 ~ 90% RH, noncondensing
Dimensions (WxDxH)	5.7" x 3.4" x 0.7" (145 x 86 x 17 mm)
Weight	9.3 oz. (265 g)

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 or through email by sending a message to tech@monoprice.com. Check the website for support times and links.

To download the latest drivers, firmware, manuals, etc., go to www.monoprice.com and type the **P/N** into the search bar. If available, support files are linked at the bottom of the product page.

REGULATORY COMPLIANCE

Notice for FCC



This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

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EDID® is a registered trademark of the Video Electronics Standards Association.

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