

BLACKBIRD™



Blackbird 8K60 2x1 Switcher

P/N **44435**
Quick Start Guide

Thank you for purchasing this product

To ensure optimum performance and safety, read the following instructions before connecting, operating, or adjusting the product. Keep this manual for future reference.

Surge protection device recommended

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

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Introduction

The 8K HDMI 2x1 Switcher can switch any of the two HDMI source signals to one HDMI display. Video resolution is supported up to 8K@60Hz 4:2:0. It can also support advanced EDID management and audio de-embedding function (output found in the optical and analog ports). This multi-functional product is widely useful for various demonstrations such as video conferences, multimedia teachings, and other events requiring a big screen.

Features

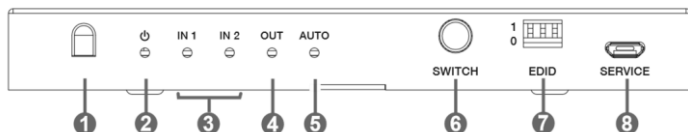
- HDMI 2.1 and HDCP 2.3 compliant
- 40Gbps video bandwidth
- Video resolution of up to 8K@60Hz 4:2:0 10bit, 8K@30Hz 4:4:4 10bit, and 4K@120Hz 4:4:4 10bit
- VRR, FVA, and ALLM
- HDR, HDR10, HDR10+, Dolby Vision, HLG pass-through
- HDMI audio formats: LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
- Built-in Equalizer, Retiming and ,Driver
- Advanced EDID management
- Audio de-embedding function (output through the optical and analog port)
- IR remote control and front panel button switching
- Compact design for easy and flexible installation

Package Contents

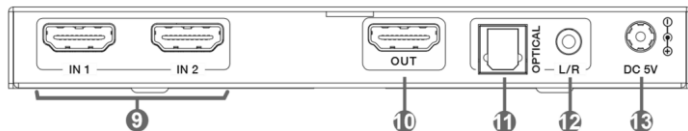
- 1 × 8K HDMI 2x2 Matrix Switcher
- 1 × IR Remote
- 1 × 5V/2A Multinational Power Supply
- 1 × User Manual

Operation Controls and Functions

Front Panel



Rear Panel



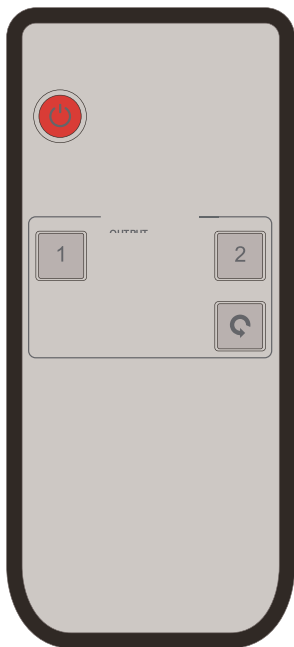
No.	Name	Function Description
1	IR Window	IR input signal receiving window.
2	POWER LED	The power LED lights in green when the device is working, and red when the device is on standby.
3	IN LED (1~2)	When the HDMI IN 1/2 port is selected as the signal source input channel, the corresponding green LED will be on.

4	OUT LED	When the HDMI OUT port connects a display device and outputs signal, the green LED will be on.
5	AUTO LED	When the auto-switching function (switch to the corresponding signal input channel when the signal source is connected.) is turned on, the green AUTO LED will be on.
6	SWITCH button	Used to select signal source for OUT port. Short pressing this button will allow the device to switch any of the two HDMI input signals to the OUT port. Long pressing this button for 3 seconds will turn on/off the auto-switching function.

No.	Name	Function Description
7	EDID DIP switch	Use the DIP switch to set EDID. 111- Copy OUT port sink EDID (as factory default) 110- HDMI 1080p@60Hz, Audio 2ch PCM 101- HDMI 4K@60Hz 4:4:4, Audio 2ch PCM, HDR 100- HDMI 4K@60Hz 4:4:4, Audio 5.1ch PCM/DTS/DOLBY, HDR 011- HDMI 4K@60Hz 4:4:4, Audio 7.1ch PCM/DTS/DOLBY/HD, HDR 010- HDMI 8K@60Hz 4:2:0+8K@30Hz 4:4:4, 4K@120Hz 4:4:4, Audio 2ch PCM, 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 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
8	SERVICE	Firmware update and debug port.
9	IN port (1~2)	HDMI signal input port, connecting to HDMI source device such as DVD or PS5 with an HDMI cable.
10	OUT port	HDMI signal output port, connecting to an HDMI display device such as TV or Monitor with an HDMI cable.
11	OPTICAL	Optical fiber audio output port.
12	L/R	Analog audio output port.
13	DC 5V	DC 5V/2A Power input port.

IR Remote



Power on the product or set it to standby mode

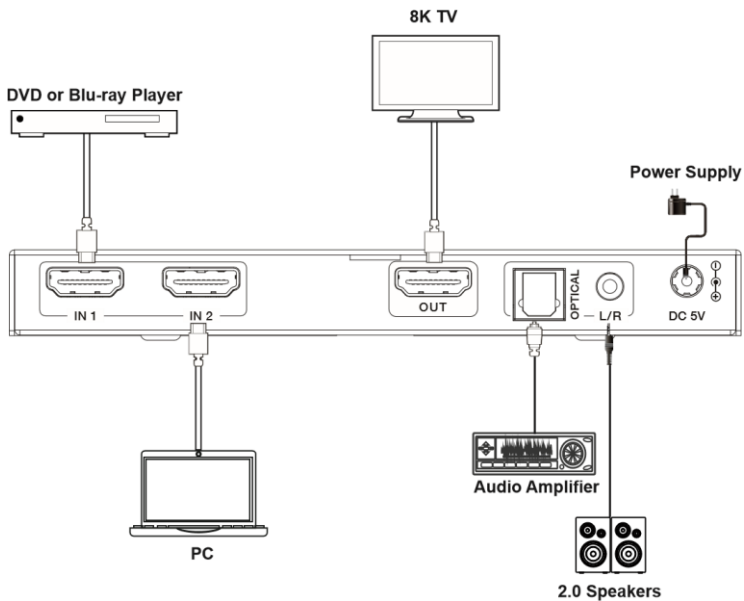
1 or 2

Press the 1 or 2 button to select an HDMI signal source to the corresponding OUT 1 or 2 port



Press the button to cyclically switch the HDMI signal source to the corresponding OUT 1 or 2 port

Application Example



Specifications

Technical	
HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	40Gbps
Video Resolution	Up to 8K@60Hz 4:2:0 10bit, 8K@30Hz 4:4:4 10bit, 4K@120Hz 4:4:4 10bit
Color Depth	8/10/12-bit
Color Space	RGB, YCbCr 4:4:4 / 4:2:2. YUV 4:2:0
Audio Formats	HDMI input/output: LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD Audio de-embedding output: Optical: LPCM 2/5.1 CH, Dolby Digital 2/5.1 CH, DTS 2/5.1 CH Analog: PCM 2.0
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input	2 × HDMI IN [Type A, 19-pin female]
Output	1 × HDMI OUT [Type A, 19-pin female] 1 × OPTICAL [S/PDIF] 1 × L/R [3.5mm Stereo Mini-jack]
Control	1 × SERVICE [Micro USB, Update port]

Mechanical	
Housing	Metal Enclosure
Silkscreen Color	Black
Dimensions	145mm (W) × 68mm (D) × 17mm (H)
Weight	268g
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 5V/2A (US standards, FCC/ETL certified)
Power Consumption	5.25W (Max)
Operation Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

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 problems 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.

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 **44435** 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 to 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 ISED 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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