

BLACKBIRD™



Blackbird™ by Monoprice™
HDMI Switch | 3x HDMI + 1 X USB-C

P/N **44555**
User Manual

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.

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Introduction

The HDMI™ 3x HDMI™ + 1x USB-C 4K switcher 4K@60Hz 4:4:4 features a display or projector with three HDMI-enabled video sources and one USB-C-enabled video source. The switcher features four independent (3 for HDMI™ and 1 for USB-C) inputs that each support 4K resolution and 7.1 surround sound audio. It's amazing how this video switch maintains Ultra HD picture quality. 4K is supported by the latest A/V devices and delivers four times the resolution of 1080p. Plus, because the switch is backward compatible with high definition 1080p, rest assured any video source will look great in your digital signage application. Enjoy hassle-free operation with three different switching modes:

1. Manual Port Switching: Enables manual selection for HDMI™ source with an easy-to-use panel button.
2. Remote Control Switching: Enables controlling the switch at a distance.
3. Automatic Port Switching: Enables the most recently activated video source to be displayed automatically.

It also features the Automatic and Manual Switching mode change function and IR receiver on/off function via a long press of the switch button for 3 and 6 seconds to meet customers' needs. And it affords a USB-A and USB-C port for charging which needs a power supply below 5 watts (5V 1A) max each using the charging port, non-simultaneously.

Features

- Manual Port Switching/Automatic Port Switching that can alternate by long pressing the selector button for 3-5 seconds or pressing the "AUTO" button to change the states directly
- 3x HDMI + 1x USB-C input supported
- USB-A and USB-C ports up to 5 watts (5V 1A) max each
- Full 3D Video Format
- High Resolution up to 4K@60Hz YUV 4:4:4
- HDCP 2.2 and HDCP 1.4
- Compatibility with Thunderbolt 3 for USB-C input
- Compatibility with DP1.4 alt mode for USB-C input
- High Dynamic Range (HDR) Video
- Consumer Electronics Control
- Highest Data Transfer Rate up to 6.0Gbps per channel (18Gbps for all channels)
- TMDS Clock up to 600MHz
- 12bit per Channel (36bit all channels) deep color
- IR receiver on/off function via long-pressing the selector button for 6 seconds or pressing the IRA button to control the function on/off
- Supports Uncompressed Audio such as LPCM
- Supports Compressed Audio such as DTS and Dolby Digital (including DTS-HD Master Audio™ and Dolby TrueHD)

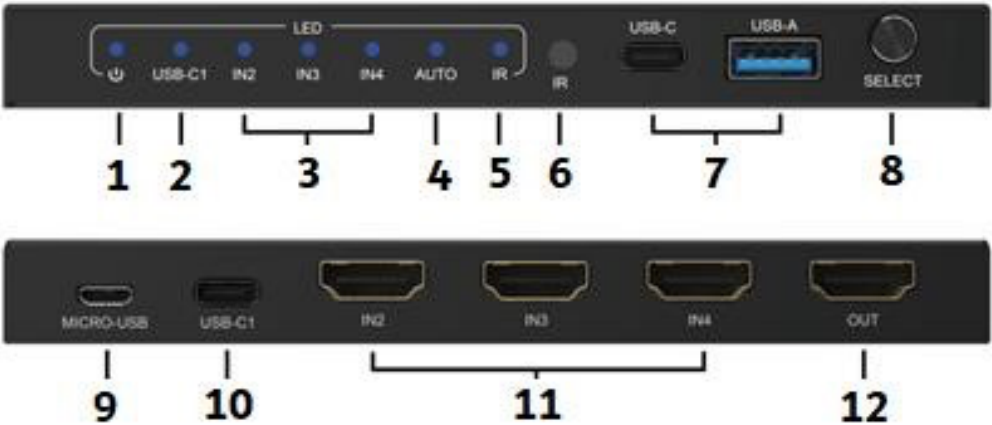
Note:

1. The USB-C-equipped device must support video to work with the switcher's USB-C input port.
2. If the customer wants to output 4K@60Hz 4:4:4 for the USB-C input port, the notebook's USB-C output must have enough bandwidth (compatible with the DP 1.4 standard or thunderbolt 3) to transmit the 4K@60Hz 4:4:4 signal.
3. The USB-C cable must be a USB 3.1 standard cable (not included) that supports audio/video transmission to ensure picture output.

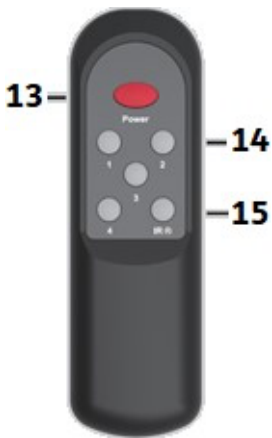
Package Contents

- 1x Main Unit
- 1x 5V 2A Micro-USB Power Adapter
- 1x Remote Control
- 1x User Manual

Ports and Interface



- | | |
|--|---|
| 1. Power LED Indicator | 6. IR: IR Receiver Port for Remote Control |
| 2. USB-C1: USB-C Input1 LED Indicator | 7. USB-A: Connect to the Device for Charging via the USB-A Port |
| 3. IN2/3/4: HDMI Input2/3/4 LED Indicator | 8. SELECT: Select Input Port Button |
| 4. AUTO: Auto Mode LED Indicator, ON is In Automatic Switching Mode
OFF is in Manual Switching Mode | 9. Micro-USB: Micro USB Power In Port |
| 5. IR: IR Mode LED Indicator, ON is In normal IR receiver Mode
OFF is in no IR Function Mode | 10. USB-C1: USB-C Input Port |
| | 11. IN2/3/4: HDMI IN2/3/4 Input Port |
| | 12. OUT: HDMI Output Port |



13. Power: To turn on/off the switcher
14. 1-4: To select the input source accordingly.
15. To turn on/off the IR receiver function of the switcher IR mode LED indicator, "ON" is in normal IR receiver mode while "OFF" is in no IR function mode.

Troubleshooting

Problems	Causes	Solutions
Power light is off and the product is not working	1. The USB Power Cable might not be properly connected. 2. The HDMI Input source is turned off.	1. Please check if the power adapter is connected properly. 2. Switch on the HDMI input source.
Screen splash	1. HDMI cable may not be HDMI 2.0-specified. 2. The cable is too long.	1. Use the standard HDMI 2.0 cable. 2. The input/output cable length must not exceed 4M 4K/60Hz 4:4:4, and 4K@30Hz/1080p can reach 10M to 10M.
Remote control is not working properly	1. The battery seal is stuck. The battery is not working.	1. Please remove the battery seal clearly. 2. Replace the battery.

Can't get the 4K@60Hz 4:4:4 resolution into the USB-C input port	1. The USB-C output bandwidth is not working.	1. Switch to a device with the DP 1.4 standard or thunderbolt 3 to get 4K@60Hz 4:4:4 out.
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Specifications

PID	44555
Input Ports	HDMI x 3, USB-C x 1
Output Ports	HDMI x 1, USB-A x 1, USB-C x 1
Vertical Frequency Range	50/60Hz
Video Amplifier Bandwidth	6.0Gbps/600MHz per channel (18Gbps all channels)
Interlaced (50&60Hz)	480i, 576i, 1080i
Progressive (50&60Hz)	480p, 576p, 720p, 1080p, 4K@24/25/30/50/60Hz
Limited Warranty	1-Year Parts and Labor
Operating Temperature	0°C to 50°C
Storage Humidity	5% to 80% RH Non-Condensation
Power Supply	5V 2A Micro-USB Power Adapter
Power Consumption (Max)	10W
Switcher Unit Cert	FCC and RoHS
Dimension (LxWxH)	139x64.5x15mm
Net Weight	190g
Material	Metal

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 44555 into the search bar. If available, support files are linked at the bottom of the product page.

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.

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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