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Blackbird™ HDMI® Extender over Cat6 (TCP/IP) with IR Support

P/N 16048

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SAFETY WARNINGS AND GUIDELINES

- Do not subject the product to extreme force, shock, or fluctuations in temperature or humidity.
- 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 adapter 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.
- 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™ HDMI® Extender! This extender can transmit HDMI video to distances up to 328 feet (100 meters) over a single Cat6 Ethernet cable. It provides a bandwidth of 6.75Gbps and supports 1080p video resolutions, 12-bit per channel Deep Color, and 48kHz LPCM digital audio. It features an IR blaster which gives you the ability to transmit infrared remote control signals, allowing for truly remote control of your equipment.

FEATURES

- Compliant with the HDMI version 1.3 specification
- Supports the HDCP 1.1 standard
- Supports video resolutions up to 1920x1080p
- Supports 12-bits/channel (36-bits total) Deep Color
- Supports high-definition audio, including 48kHz LPCM digital audio
- Provides 6.75Gbps bandwidth
- Equalizes and recovers incoming TMDS data
- IR blaster transmits IR signals from the remote location to the HDMI source device

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

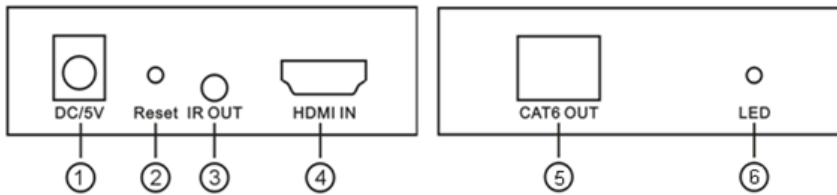
PACKAGE CONTENTS

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 Blackbird™ HDMI® extender transmitter
- 1x Blackbird HDMI extender receiver
- 1x IR transmitter
- 1x IR receiver
- 2x AC power adapter
- 1x User's manual

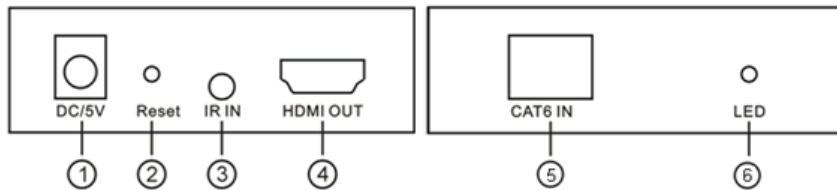
PRODUCT OVERVIEW

Transmitter



1. **DC/5V:** Plug one of the included AC power adapters into this DC jack.
2. **Reset:** Press and hold this button for about 10 seconds to reset the transmitter to the factory default settings.
3. **IR Out:** Plug the IR transmitter into this jack.
4. **HDMI In:** Connect to the HDMI output of your HDMI source device.
5. **Cat6 Out:** Connect a Cat6 Ethernet cable into this port to deliver the signal to the receiver.
6. **LED:** This LED illuminates when power is applied to the transmitter.

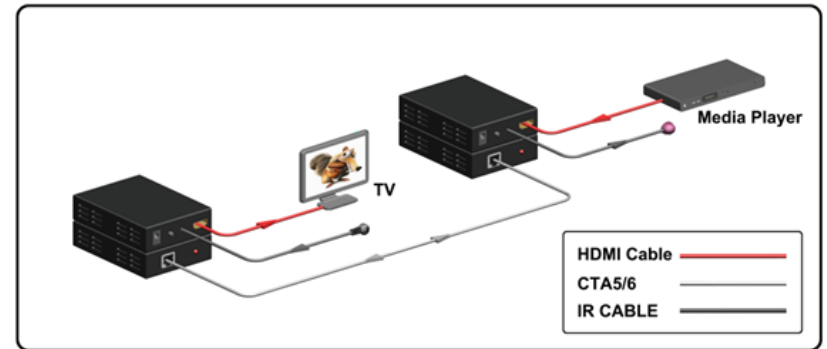
Receiver



1. **DC/5V:** Plug one of the included AC power adapters into this DC jack.
2. **Reset:** Press and hold this button for about 10 seconds to reset the receiver to the factory default settings.
3. **IR In:** Plug the IR receiver into this jack.
4. **HDMI Out:** Connect to the HDMI® input on your HDMI display.
5. **Cat6 In:** Connect a Cat6 Ethernet cable into this port to receive the signal from the transmitter.
6. **LED:** This LED illuminates when power is applied to the receiver.

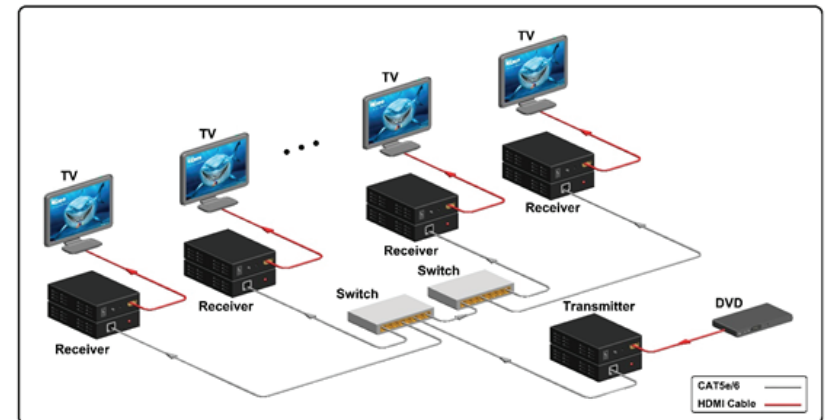
CONNECTION TYPES

Standalone



A Standalone connection uses a dedicated Ethernet cable to connect the transmitter and receiver. It can extend a full HD 1080p HDMI® up to 100 meters using a Cat6 cable.

HDMI Splitter



An HDMI® Splitter connection can use one or more Ethernet switches to distribute the transmitted signal to multiple receivers and additional switches.

INSTALLATION

Perform the following steps to install and operate the Blackbird™ HDMI® Extender:

1. Ensure that all devices that will be connected are powered off and unplugged from their power sources.
2. Place or mount the Transmitter and Receiver in their intended locations.
3. Using a High Speed HDMI Cable (not included), plug one end into one of the HDMI inputs on your television or display, then plug the other end into the **HDMI Out** port on the Receiver.
4. Using a High Speed HDMI Cable (not included), plug one end into the **HDMI In** port on the Transmitter, then plug the other end into the HDMI output of your HDMI source device (DVD player, etc.).
5. Using a Cat6 Ethernet cable (not included), plug one end into the **Cat6 In** port on the Receiver, then plug the other end into the **Cat6 Out** port on the Transmitter.
6. (Optional) If you want to control the HDMI source device from the remote location, plug the IR transmitter into the **IR Out** jack on the transmitter, then position the IR bulb where it can transmit IR signals to the receiving "eye" on your HDMI source device. Next, plug the IR receiver into the **IR In** jack on the receiver, then position the IR bulb where it can receive signals from your remote control.
7. Plug the DC barrel connector on one of the AC power adapters into the **DC/5V** jack on the Receiver, then plug the adapter into a nearby AC power outlet. The **LED** should illuminate.
8. Plug the DC barrel connector on one of the AC power adapters into the **DC/5V** jack on the Transmitter, then plug the adapter into a nearby AC power outlet. The **LED** should illuminate.
9. Plug in and power on your HDMI® source device and HDMI display(s). Start playback on the source device. Verify that the video is being played on the display(s).
10. (Optional) If using the IR repeater function, use your equipment's remote control to verify that you can control the source device from the display location.

Congratulations, your Blackbird™ HDMI Extender is installed and functioning correctly!

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	16048
Maximum HDMI® Resolution	1920 x 1080p @ 60 Hz
Bandwidth	2.25Gbps (6.75Gbps)
Deep Color	12 bits/channel (36 bits total)
HDMI Version	1.3
HDCP Version	1.1
Maximum Transmission Distance	328 feet (100 meters) using Cat6
Operating Temperature	+32 ~ +104°F (0 ~ +40°F)
Storage Temperature	-4 ~ +140°F (-20 ~ +60°C)
Operating Humidity	20 ~ 90% RH, non-condensing
Dimensions (each)	3.9" x 2.6" x 1.0" (100 x 65 x 25 mm)

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.

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.

Blackbird™ is a trademark of Monoprice Inc.

HDMI®, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.