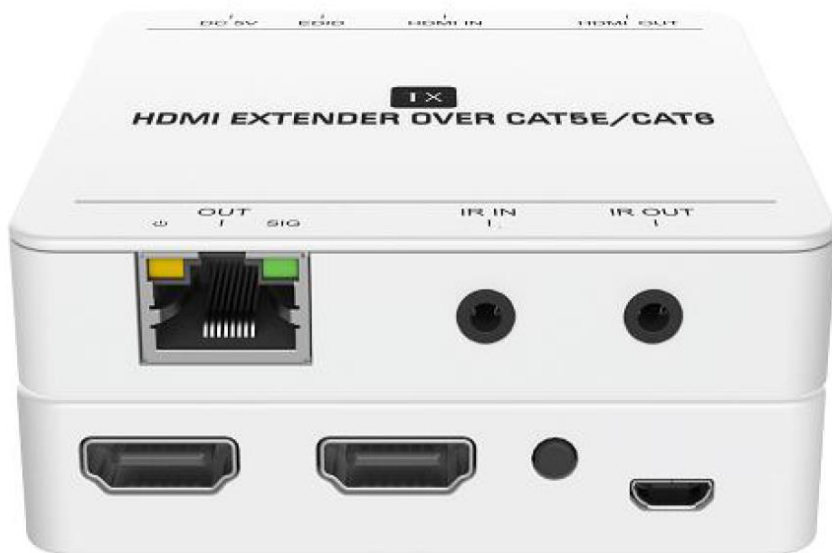


BLACKBIRD™

4K HDMI® Extender Over Ethernet



P/N 43959

Quick User Guide

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.

- 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 4K HDMI® Extender Over Ethernet allows you to extend an HDMI signal over a single Cat5e/Cat6 Ethernet cable. It supports resolutions up to 4K@30Hz with YCbCr 4:4:4, including 1080p@60Hz with YCbCr 4:4:4. It can extend 4K signals to distances up to 164 feet (50 meters) and 1080p signals to distances up to 229 feet (70 meters). It is fully compliant with the HDMI 1.4 and HDCP™ 1.4 specifications and features smart EDID® management.

FEATURES

- Supports resolutions up to 4K@30Hz with YCbCr 4:4:4, including 1080p@60Hz with YCbCr 4:4:4
- Complies with the HDMI® 1.4 and HDCP™ 1.4 specifications
- Extends a 4K signal to distances up to 164 feet (50 meters) and a 1080p signal to distances up to 229 feet (70 meters) over a single Cat5e/Cat6 Ethernet cable
- HDMI loop-out connection on the transmitter for use with a local display
- Supports the Power over Cable (PoC) feature, which allows the receiver to be powered by the transmitter over the Ethernet cable
- Supports bidirectional IR passthrough

ONLINE SUPPORT

Monoprice™ is pleased to provide free online support. For order related issues, contact the Customer Service department through the Live Chat link on our website **www.monoprice.com** or via email at **support@monoprice.com**

For technical issues, contact the Technical Support department through the online chat button on our website **www.monoprice.com** or by sending an email to **tech@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 Transmitter

1x Receiver

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

1x IR Transmitter

1x IR Receiver

2x Hook and Loop Strips

1x Quick User Guide

PRODUCT OVERVIEW

Transmitter



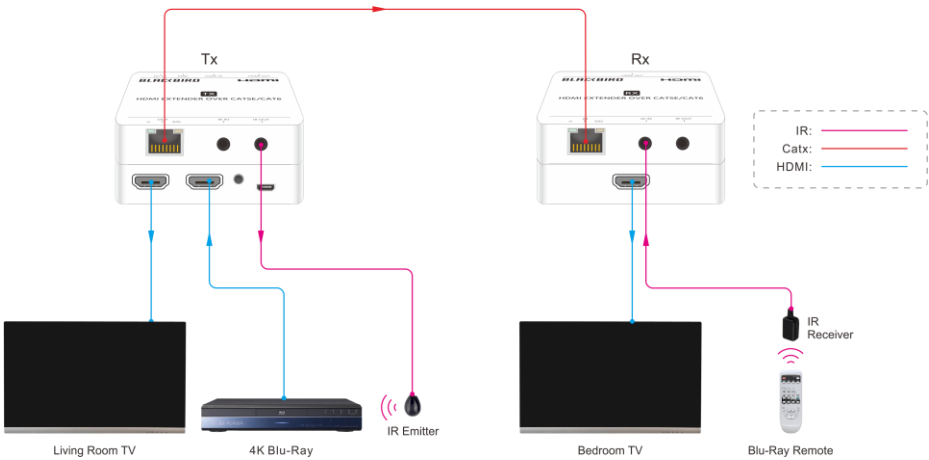
1. **HDMI OUT:** HDMI® loop-out port for connecting a local display.
2. **HDMI IN:** HDMI port for connecting a video source device.
3. **EDID:** Momentarily press the **EDID** button on the transmitter to get the EDID from the display connected to the receiver. Press and hold the **EDID** button for 3 seconds to get the **EDID** from the display connected to the transmitter's loop-out port. If no display is connected to the transmitter's loop-out port, it will get the internal EDID of 1080p video with stereo audio instead.
4. **DC 5V:** Micro USB port for connecting the included AC power adapter.
5. **OUT:** RJ45 Ethernet jack for a Cat5e or Cat6 Ethernet cable (available separately) to connect to the receiver.
6. **IR IN:** 3.5mm jack for connecting an IR receiver to allow for control of the display device connected to the receiver.
7. **IR OUT:** 3.5mm jack for connecting an IR transmitter to allow for control of the video source device from the remote location.

Receiver



- 1. **IN:** RJ45 Ethernet jack for connecting a Cat5e or Cat6 Ethernet cable (available separately) to connect to the transmitter.
- 2. **IR IN:** 3.5mm jack for connecting an IR receiver to allow for control of the video source device connected to the transmitter.
- 3. **IR OUT:** 3.5mm jack for connecting an IR transmitter to allow for control of the display from the transmitter location.
- 4. **HDMI OUT:** HDMI® port for connecting the remote display.

SAMPLE CONNECTION DIAGRAM



EDID MANAGEMENT

The EDID® system tells the source device the maximum capabilities of any connected display(s). You can set the EDID to the capabilities of the display connected to the receiver, a display connected to the transmitter's loop-out port, or a default of 1080p with stereo audio, if no display is connected to the transmitter. Perform one of the following steps to set the EDID.

- Momentarily press the **EDID** button on the transmitter to get the EDID from the display connected to the receiver.
- Press and hold the **EDID** button for 3 seconds to get the EDID from the display connected to the transmitter's loop-out port. If no display is connected to the transmitter's loop-out port, it will get the internal EDID of 1080p video with stereo audio instead.

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.

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HDCP™ is a trademark of Digital Content Protection LLC.

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