



Blackbird™ 4K 18Gbps Scaler, Repeater, and Up/Down Converter

P/N 30460

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 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 subject the product to 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 heat sources, such as a fireplace, stove, radiator, etc. Do not leave it in direct sunlight.
- 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.
- 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™ 4K 18Gbps Scaler, Repeater, and Up/Down Converter! This device delivers 18Gbps bandwidth and supports HDMI® input and output resolutions up to 4K@60Hz (YUV 4:4:4), including 1080p@120Hz and 3D 1080p@60Hz. It can scale the output up or down to match the resolution capabilities of the connected display and includes a built-in amplifier, which allows you to extend High Speed HDMI signals to total distances of up to 131 feet (40 meters) for 1080p@60Hz signals and up to 65 feet (20 meters) for 4K@60Hz signals. It is compatible with the features found in the HDMI 2.0b and HDCP 2.2 specifications.

FEATURES

- Supports display resolutions up to 4K@60Hz, including 1080p@120Hz and 3D 1080p@60Hz
- Can extend 1080p HDMI® signals to distances up to 131 feet (40 meters)
- Provides 18Gbps video bandwidth
- Supports high-definition, multi-channel audio pass-through
- Supports the features found in the HDMI 2.0b and HDCP 2.2 specifications
- Supports 12-bit per channel color depth
- Multiple units can be cascaded

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

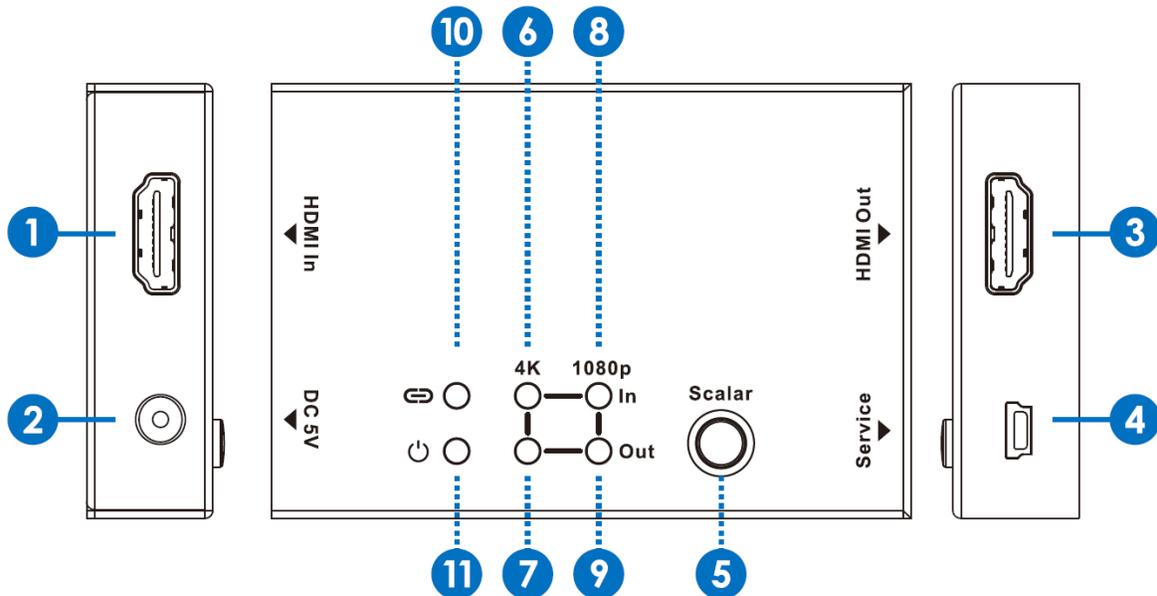
Please take an inventory of the package contents to ensure you have all the items listed below. If anything is missing or damaged, please contact Monoprice Customer Service for a replacement.

1x HDMI® repeater/scaler/converter

1x AC power adapter (5 VDC, 1A)

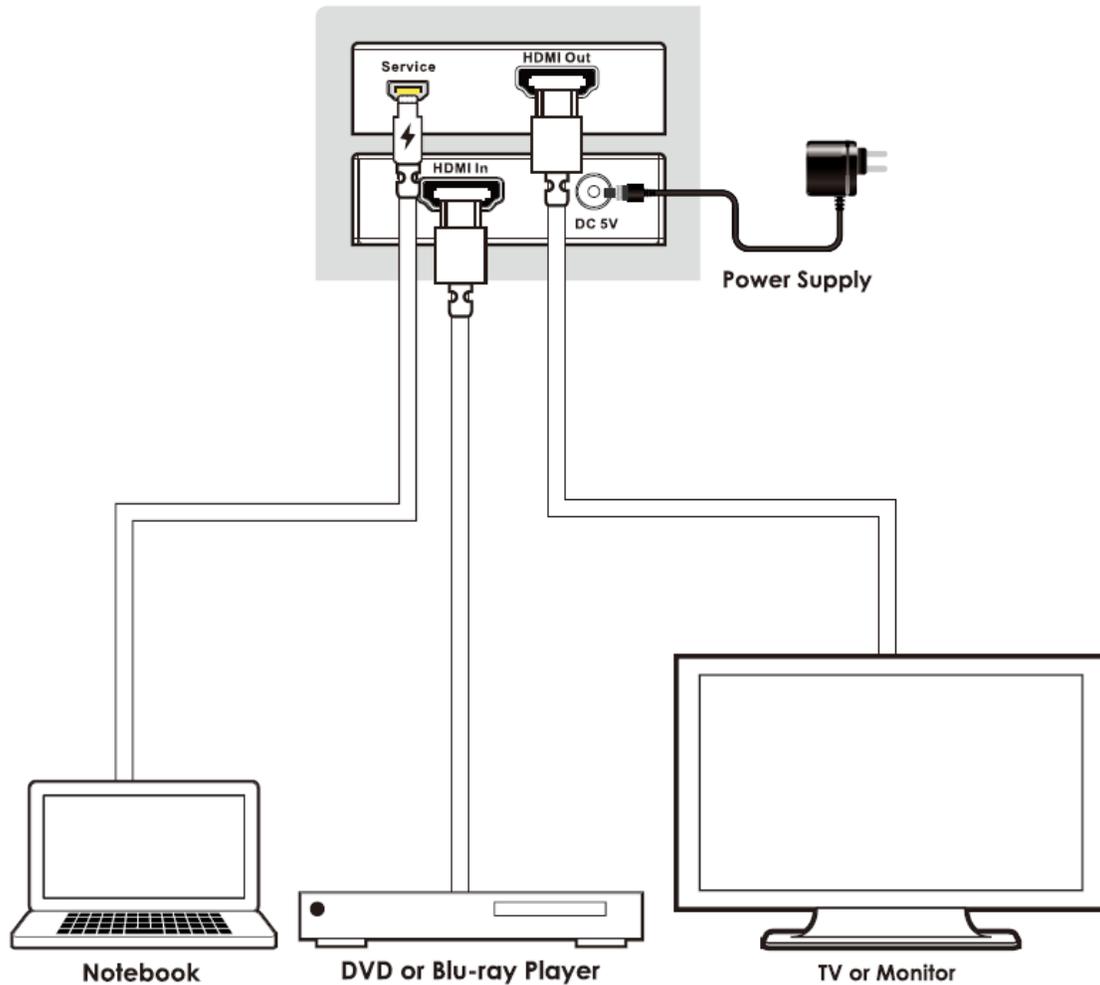
1x User's manual

PRODUCT OVERVIEW



1. **HDMI In:** HDMI® port for connecting the video source device.
2. **DC 5V:** DC barrel connector for connecting the included AC power adapter.
3. **HDMI Out:** HDMI port for connecting the display.
4. **Service:** USB port for performing firmware updates.
5. **Scaler:** Press the Scaler button to cycle through the available output resolutions.
6. **4K In:** LED indicator illuminates blue when a 4K video input signal is detected.
7. **4K Out:** LED indicator illuminates blue when a 4K video signal is being output.
8. **1080p In:** LED indicator illuminates blue when a 1080p video input signal is detected.
9. **1080p Out:** LED indicator illuminates blue when a 1080p video signal is being output.
10. **Signal LED:** LED indicator illuminates blue when an input signal is detected.
11. **Power LED:** LED indicator illuminates red when power is applied.

SAMPLE CONNECTION DIAGRAM



INSTALLATION

Perform the following steps to install this device into your system.

1. Ensure that all equipment to be connected is powered off and unplugged from its power source.
2. Place the converter in its intended location.

3. Using a High Speed HDMI® Cable (not included), plug one end into the HDMI input on your display, then plug the other end into the **HDMI Out** port on the converter.
4. Using a High Speed HDMI Cable (not included), plug one end into the **HDMI In** port on the converter, then plug the other end into the HDMI output on your video source device (e.g., Blu-ray Disc™ player, DVD player, gaming console, etc.).
5. Plug the DC barrel connector on the included AC power adapter into the **DC 5V** jack on the converter, then plug the adapter into a nearby AC power outlet. The **Power LED** should illuminate red, indicating that power has been applied.
6. Plug in and power on all connected equipment. Start video playback on your video source device. The **Signal LED** should illuminate blue, indicating the presence of a video signal. If the input and/or output signals are 1080p or 4K, the appropriate LED indicators will illuminate. Verify that you can see video on your display device.

Congratulations, your converter has been properly installed!

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	30460
Inputs	1x HDMI®
Outputs	1x HDMI
Bandwidth	18 Gbps
Maximum Input Resolution	4K@60Hz
Maximum Output Resolution	4K@60Hz
Color Depth	up to 12 bits per channel (36 bits total)
Supported Color Spaces	RGB, YUV 4:4:4, YUV 4:2:2
HDMI Version	2.0b
HDCP Version	2.2
Input Power	5 VDC, 1A
AC Adapter Input Power	100~240 VAC, 50/60 Hz
Maximum Power Consumption	3 watts
Operating Temperature	+32 ~ +104°F (0 ~ +40°C)
Storage Temperature	-4 ~ +140°F (-20 ~ +60°C)
Relative Humidity	20~90% RH, non-condensing
Dimensions	3.2" x 2.2" x 0.6" (81 x 55 x 16 mm)
Weight	14.1 oz. (400 g)

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Blu-ray™ and Blue-ray Disc™ are trademarks of the Blu-ray Disc Association.