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› UGREEN 8K@60Hz Active Display Port to HDMI Unidirectional Adapter Instruction Manual

UGREEN 85996

UGREEN 8K@60Hz Active Display Port to HDMI Unidirectional Adapter

Model: 85996

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your UGREEN 8K@60Hz Active Display Port to HDMI Unidirectional Adapter. Please read this manual thoroughly before using the product to ensure optimal performance and to prevent damage.



Image: UGREEN 8K@60Hz Active Display Port to HDMI Unidirectional Adapter, showcasing its compact design.

PRODUCT OVERVIEW AND FEATURES

The UGREEN 8K@60Hz Active Display Port to HDMI Unidirectional Adapter is designed to convert a DisplayPort 1.4 signal from a source device to an HDMI 2.1 signal for display on an HDMI-compatible monitor, TV, or projector. This adapter supports high resolutions and refresh rates, ensuring a high-quality visual and audio experience.

- **High Resolution and Refresh Rate Support:** Supports up to 8K@60Hz, 4K@240Hz, 2K@240Hz, and 1080P@480Hz.
- **Uni-directional Signal Flow:** Converts DisplayPort (source) to HDMI (display) only. It does not support HDMI to DisplayPort conversion.
- **High Bandwidth:** Provides up to 32.4Gbps bandwidth for stable and high-fidelity signal transmission.
- **Advanced Technologies:** Compatible with DisplayPort 1.4, HDMI 2.1, HDCP 2.2, DSC1.2a, and HDR 10+ for vivid images and perfect synchronization.
- **Audio Support:** Supports 24-bit/192kHz audio sampling rate and various audio formats including Dolby Atmos and DTS:X.

- **Plug and Play:** No driver installation required for operation.
- **Durable Construction:** Features a slim aluminum housing for heat dissipation, tinned copper conductors for conductivity, and gold-plated connectors for corrosion resistance.

8K Ultra High Resolution

8K@60Hz 4K@240Hz 2K@240Hz 1080p@480Hz

8K

HDMI 8K

UGREEN

HDCP 2.3 **32.4Gbps** **HDR10+** **24Bit** **RGB/YCbCr 4:4:4**

Image: Visual representation of 8K Ultra High Resolution capabilities.

Smooth Video and Immersive Experience

G-SYNC for smooth, stable display without stuttering



4K@240Hz

4K@60Hz

Image: Depiction of smooth video and immersive experience with G-SYNC.



Image: Illustration of perfect audio-visual synchronization.



Image: Close-up of the UGREEN 8K Active DP Male to HDMI Female Adapter.

SETUP INSTRUCTIONS

Follow these steps to connect your UGREEN DisplayPort to HDMI adapter:

1. **Connect the Adapter to the DisplayPort Source:** Insert the DisplayPort male connector of the adapter into the DisplayPort output port of your source device (e.g., PC, laptop, graphics card).
2. **Connect the HDMI Cable:** Connect one end of an HDMI cable (not included) into the HDMI female port of the adapter.
3. **Connect to HDMI Display:** Connect the other end of the HDMI cable to the HDMI input port of your display device (e.g., monitor, TV, projector).

The adapter is plug-and-play, requiring no additional drivers. Ensure both your DisplayPort source device and HDMI display device support the desired resolution and refresh rate (e.g., 8K@60Hz) to achieve that specific effect.

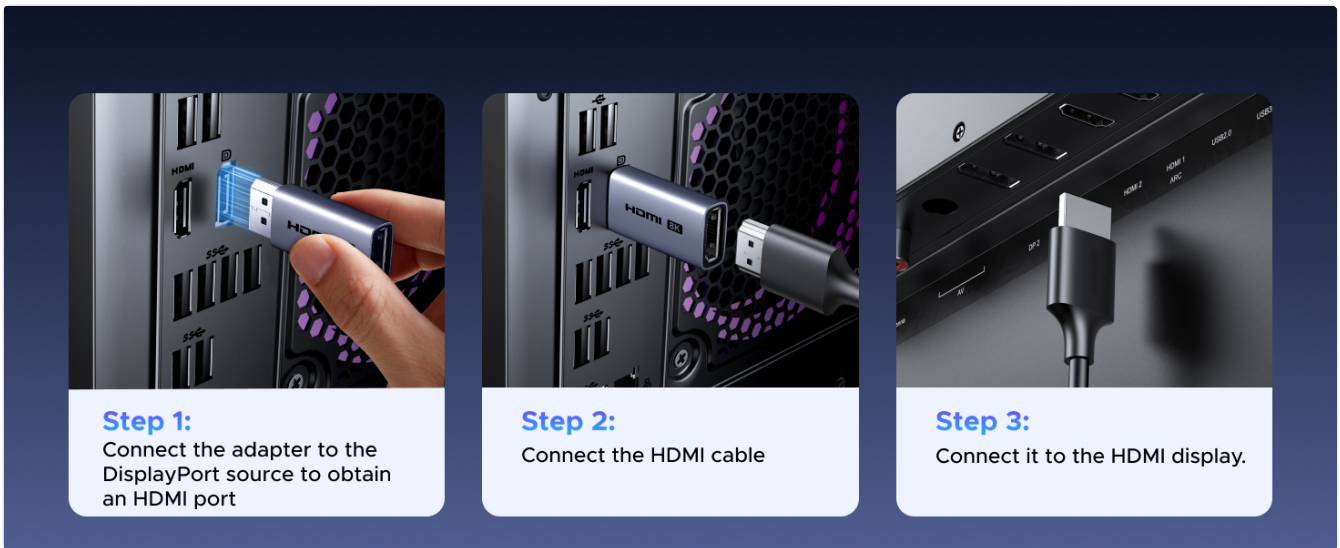


Image: Step-by-step visual guide for connecting the adapter.

Using an adapter can help protect the original DisplayPort on your device from wear and tear caused by repeated plugging and unplugging.



Image: Diagram illustrating how the adapter protects the original DisplayPort.

OPERATING INSTRUCTIONS

Once connected, the adapter will automatically detect and transmit the video and audio signal from your DisplayPort source to the HDMI display. You can configure your display settings through your computer's operating system.

Multi-Display Modes

This adapter supports common multi-display configurations:

- **Mirroring Mode:** Duplicates your primary display onto the connected HDMI display.
- **Extended Mode:** Extends your desktop across both displays, allowing for more workspace.



Image: Visual examples of mirroring and extended display modes.

Resolution and Refresh Rate

The adapter will attempt to negotiate the highest possible resolution and refresh rate supported by both your source device and display. For specific resolutions like 8K@60Hz or 4K@240Hz, ensure all components in your setup (source, adapter, HDMI cable, and display) are compatible with these specifications.



Image: Illustration demonstrating high refresh rate capabilities.

COMPATIBILITY

This adapter is designed for specific DisplayPort to HDMI signal conversion. Please review the compatibility information below:

Compatible Devices:

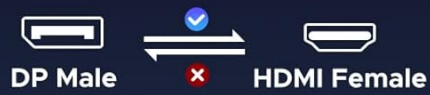
- **DisplayPort Source Devices:** PCs, Laptops, Graphics Cards (e.g., NVIDIA/AMD/RX 6000/7000, UltraSharp, ThinkPad T14 Gen 4) with a DisplayPort output.
- **HDMI Display Devices:** Monitors, TVs/HDTVs, Projectors with an HDMI input.

Non-Compatible Devices:

This adapter is **not** compatible with HDMI source devices or DisplayPort monitors. It will not function with:

- MacBook (HDMI source)
- PS5, PS4, Switch, Switch 2, Xbox, GoPro (HDMI source devices)
- DisplayPort Monitors (as a display device for an HDMI source)

Wide Compatibility



DP-Compatible Devices



PC



Laptop



Graphics Card



HDMI-Compatible Devices



Monitor



TV/HDTV



Projector

Noncompatible Devices



PS5 / PS4



Switch / Switch 2



GoPro



Xbox



MacBook



DP Monitor



Image: Diagram showing compatible DisplayPort source devices and HDMI display devices, along with non-compatible devices.

SPECIFICATIONS

Feature	Specification
Model Number	85996
Connector Type	DisplayPort Male to HDMI Female
Max Resolution Support	8K@60Hz, 4K@240Hz, 2K@240Hz, 1080P@480Hz
Bandwidth	32.4Gbps
DisplayPort Standard	DP 1.4 (backward compatible with DP 1.3/1.2)
HDMI Standard	HDMI 2.1
HDCP Support	HDCP 2.2, HDCP 2.3
HDR Support	HDR 10+
Audio Support	24-bit/192kHz, Dolby Atmos, DTS:X
Color	Grey
Housing Material	Aluminum

To achieve the stated resolutions, both the input and output devices, as well as the HDMI cable used, must support DisplayPort 1.4 and HDMI 2.1 standards respectively.

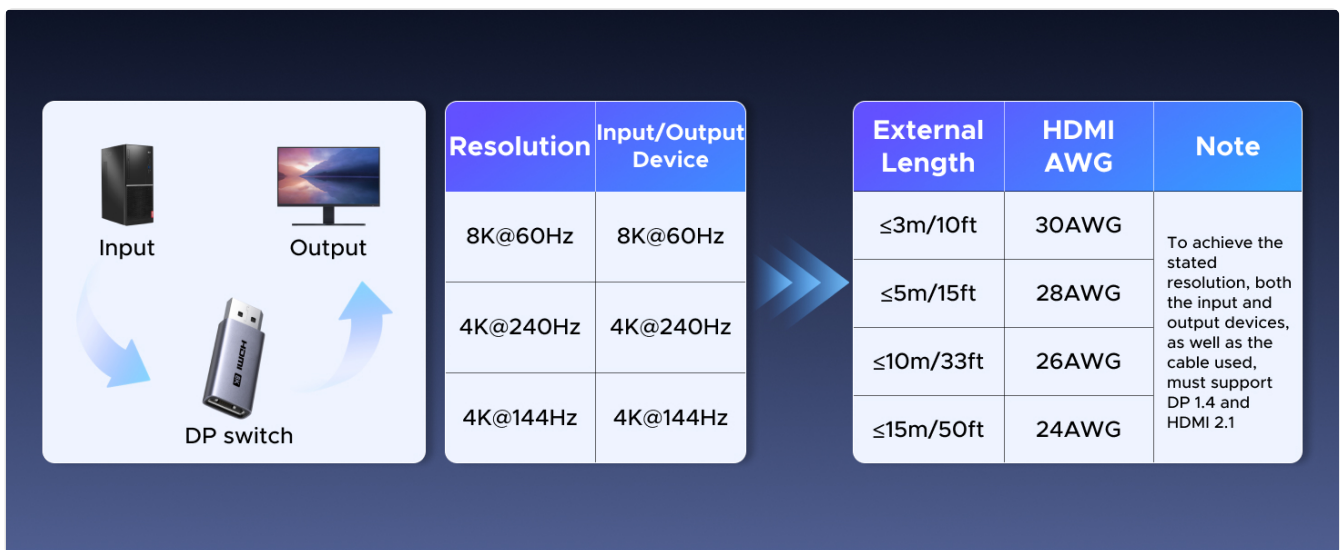


Image: Table detailing resolution support and recommended cable specifications.

TROUBLESHOOTING

- **No Display/Signal:**

- Ensure all connections are secure.
- Verify that the DisplayPort source device is powered on and outputting a signal.
- Confirm the HDMI display is set to the correct input source.
- Remember this is a uni-directional adapter (DP to HDMI only). It will not work if connecting an HDMI source to a DisplayPort display.

- **Lower Resolution/Refresh Rate Than Expected:**

- Check that both your DisplayPort source device and HDMI display device support the desired resolution and refresh rate.
- Ensure your HDMI cable is rated for the desired resolution and refresh rate (e.g., an 8K HDMI cable for 8K@60Hz). Refer to the specifications table for cable length and AWG guidelines.
- Update graphics drivers on your source PC.

- **Audio Issues:**

- Verify audio output settings on your source device are configured to send audio via DisplayPort/HDMI.
- Check the volume levels on both your source device and display.

- **Display Not Recovering from Sleep Mode:**

- If the display does not resume after the PC enters sleep mode, try unplugging and re-inserting the adapter.
- Consider adjusting power management settings on your PC to prevent the DisplayPort from entering a deep sleep state.

- **G-SYNC/VRR Functionality:**

- While G-SYNC compatibility has been reported, Variable Refresh Rate (VRR) support may vary depending on your specific hardware and software configuration.

MAINTENANCE

The UGREEN DisplayPort to HDMI adapter requires minimal maintenance. Follow these guidelines to ensure its longevity:

- Keep the adapter in a clean, dry environment.
- Avoid exposing the adapter to extreme temperatures or direct sunlight.
- Do not bend or twist the adapter excessively.
- Clean the connectors gently with a dry, lint-free cloth if necessary. Avoid using liquid cleaners.

WARRANTY AND SUPPORT

UGREEN products are designed for reliability and performance. For warranty information or technical support, please refer to the official UGREEN website or contact their customer service directly. Keep your purchase receipt for warranty claims.