Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

FUERAN HDMI 2.1 Dummy Plug

Fueran HDMI 2.1 Dummy Plug User Manual

Model: HDMI 2.1 Dummy Plug | Brand: FUERAN

1. Introduction

The Fueran HDMI 2.1 Dummy Plug is a display emulator designed to discreetly connect to your computer's video output socket. This device allows your operating system to detect a connected display, thereby activating the Graphics Processing Unit (GPU). GPUs are often deactivated when no physical display is attached, leading to reduced performance and limited working resolutions, especially for remote users. By enabling the GPU, this dummy plug facilitates various tasks, including high-resolution hardware-accelerated remote desktop access and GPGPU operations such as cryptocurrency mining.

This emulator is particularly beneficial for systems with graphics cards that may not function optimally with simpler dummy plugs. It is compatible with PCs, Mac Minis, Intel NUCs, and any other device equipped with an HDMI output.

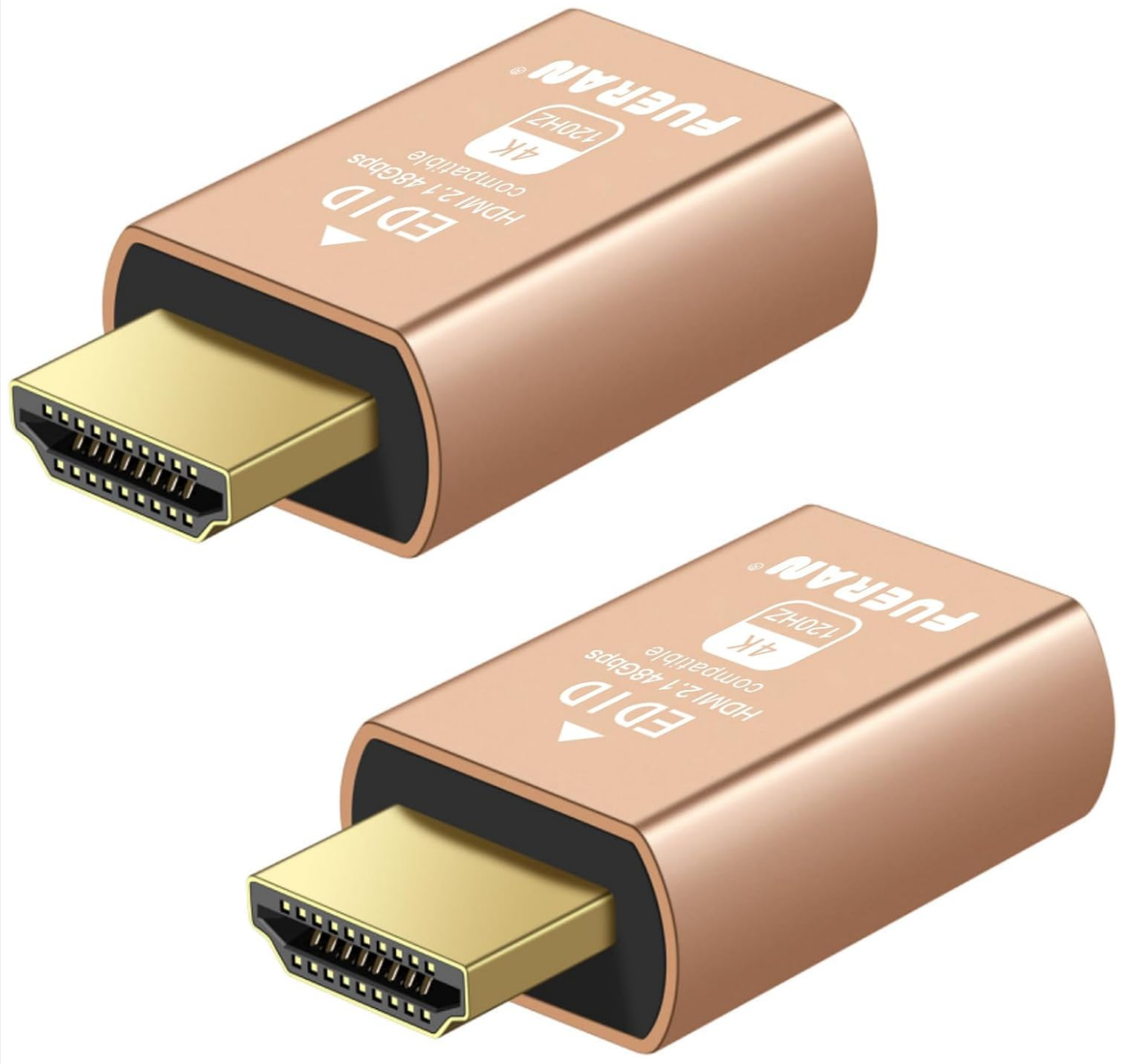


Image 1.1: Two Fueran HDMI 2.1 Dummy Plugs. These compact devices are designed to emulate a connected display.

2. Features

- **HDMI 2.1 Compatibility:** Supports resolutions up to 4K (3840 x 2160) at 120 Hz. Also compatible with 1440p at 60Hz/120Hz and 1080p at 60Hz/120Hz. Note: Achieving 4K/120Hz requires the graphics card interface to support HDMI 2.1.
- **Plug & Play Operation:** Requires no drivers, software installation, or external power cables.
- **Low Power and Heat:** Designed for extremely low power consumption and negligible heat emission, ensuring stability for continuous operations like cryptocurrency mining, video rendering, and simulation mirroring.
- **Broad Compatibility:** Works with discrete graphics cards, laptops with HDMI output, and various operating systems including Windows PC, Mac Mini OSX, and Linux.
- **GPU Activation:** Functions as an EDID emulator, prompting the GPU to remain active, which is crucial for high-resolution remote desktop access and GPGPU tasks.
- **Stable Signal:** Features a gold-plated dongle to ensure a stable digital signal transmission.
- **Versatile Use:** Ideal for game streaming, virtual reality, mini-server setups with screen sharing, streaming to devices like Steam Deck or ROG Ally, and enhancing Govee gaming light functionality. Proven effective with remote access

tools like TeamViewer and AnyDesk, and for headless Raspberry Pi configurations.



Image 2.1: Diagram detailing the features and benefits of the Headless Ghost HDMI dummy plug, including resolution support and applications.

3. Setup and Installation

1. **Identify HDMI Port:** Locate an available HDMI output port on your computer, graphics card, or other compatible device.
2. **Insert Dummy Plug:** Gently insert the Fueran HDMI 2.1 Dummy Plug into the HDMI port. Ensure it is fully and securely seated.
3. **No Drivers Required:** The device is plug-and-play. No additional drivers or software installation is necessary. Your operating system should automatically detect the virtual display.
4. **Verify GPU Activation:** After installation, your system's GPU should become active, allowing for higher resolutions and improved performance in remote access scenarios.



Image 3.1: Examples of the Fueran HDMI dummy plug connected to a notebook, Mac mini, and a graphics card, illustrating its simple integration.

4. Operation

Once the Fueran HDMI 2.1 Dummy Plug is connected, it emulates a physical display, tricking your computer's operating system into believing a monitor is attached. This action activates the GPU, which is essential for maintaining high performance and resolution in headless or remote access environments.

- **Remote Desktop:** With the GPU active, you can access your computer remotely with hardware acceleration, enabling smoother graphics and higher resolutions than typically available without a connected display.
- **GPGPU Tasks:** For tasks requiring significant GPU processing power, such as cryptocurrency mining or complex rendering, the dummy plug ensures the GPU operates at its full potential.
- **Display Settings:** You can adjust the virtual display's resolution and refresh rate through your operating system's standard display settings. The dummy plug will simulate the selected configuration.

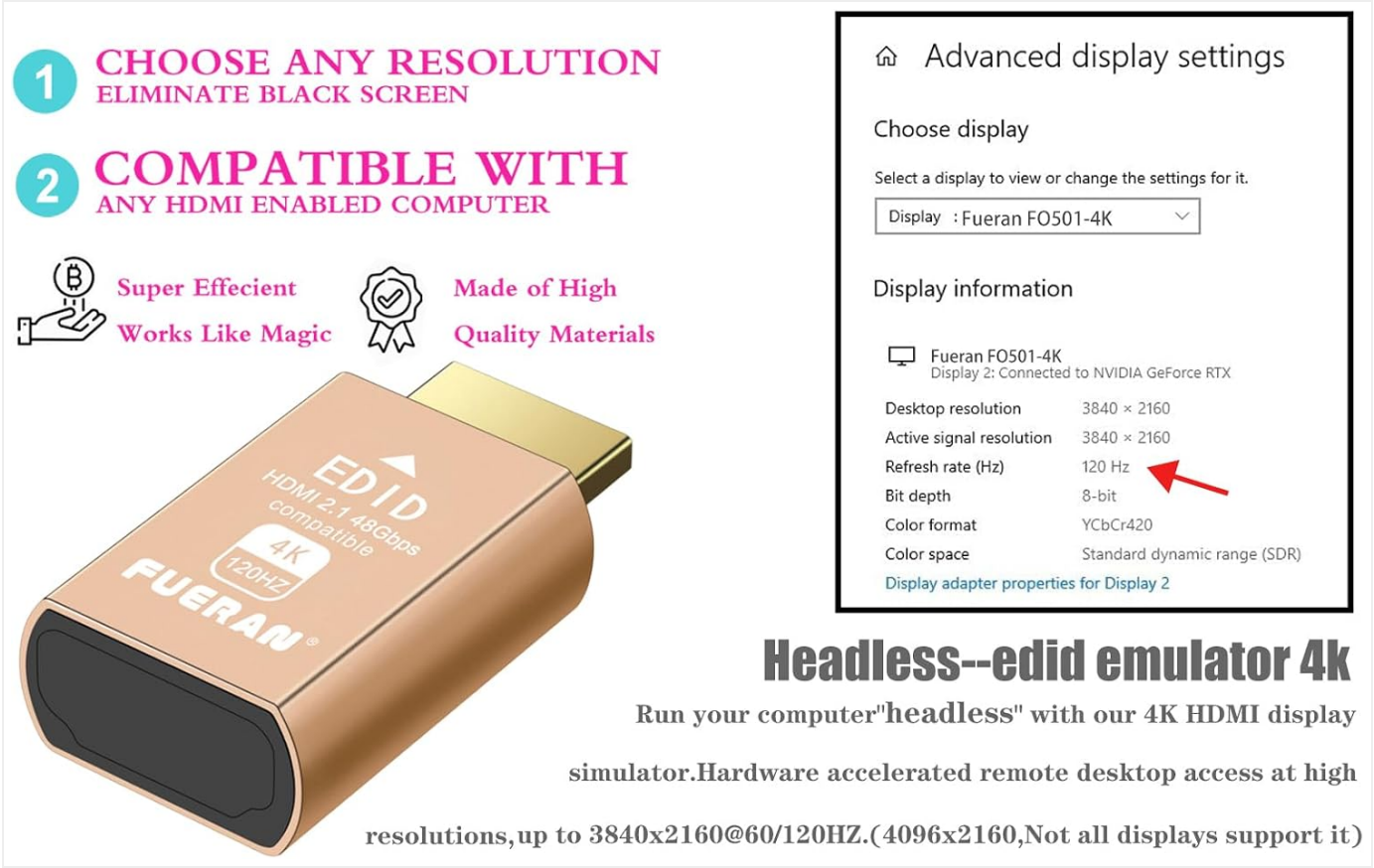


Image 4.1: A screenshot demonstrating advanced display settings, indicating a 4K resolution at 120Hz refresh rate, enabled by the dummy plug.

5. Supported Resolutions

The Fueran HDMI 2.1 Dummy Plug supports a wide range of resolutions and refresh rates. The maximum achievable resolution and refresh rate depend on the capabilities of your graphics card and its HDMI version.

- 3840 x 2160 @ 60 Hz (with HDMI 2.0 compatible graphics cards)
- 3840 x 2160 @ 120 Hz (with HDMI 2.1 compatible graphics cards)
- 2560 x 1440 @ 60 Hz / 120 Hz
- 1920 x 1200 @ 60 Hz
- 1920 x 1080 @ 60 Hz / 120 Hz
- 1680 x 1050 @ 60 Hz
- 1600 x 1200 @ 60 Hz
- 1600 x 900 @ 60 Hz
- 1440 x 900 @ 60 Hz
- 1366 x 768 @ 60 Hz
- 1280 x 720 @ 60 Hz
- 1024 x 768 @ 60 Hz
- 800 x 600 @ 60 Hz

Important Note: To achieve 4K resolution at 120Hz refresh rate, your graphics card's HDMI interface must explicitly support the HDMI 2.1 standard. Resolutions exceeding the GPU's capabilities cannot be simulated.

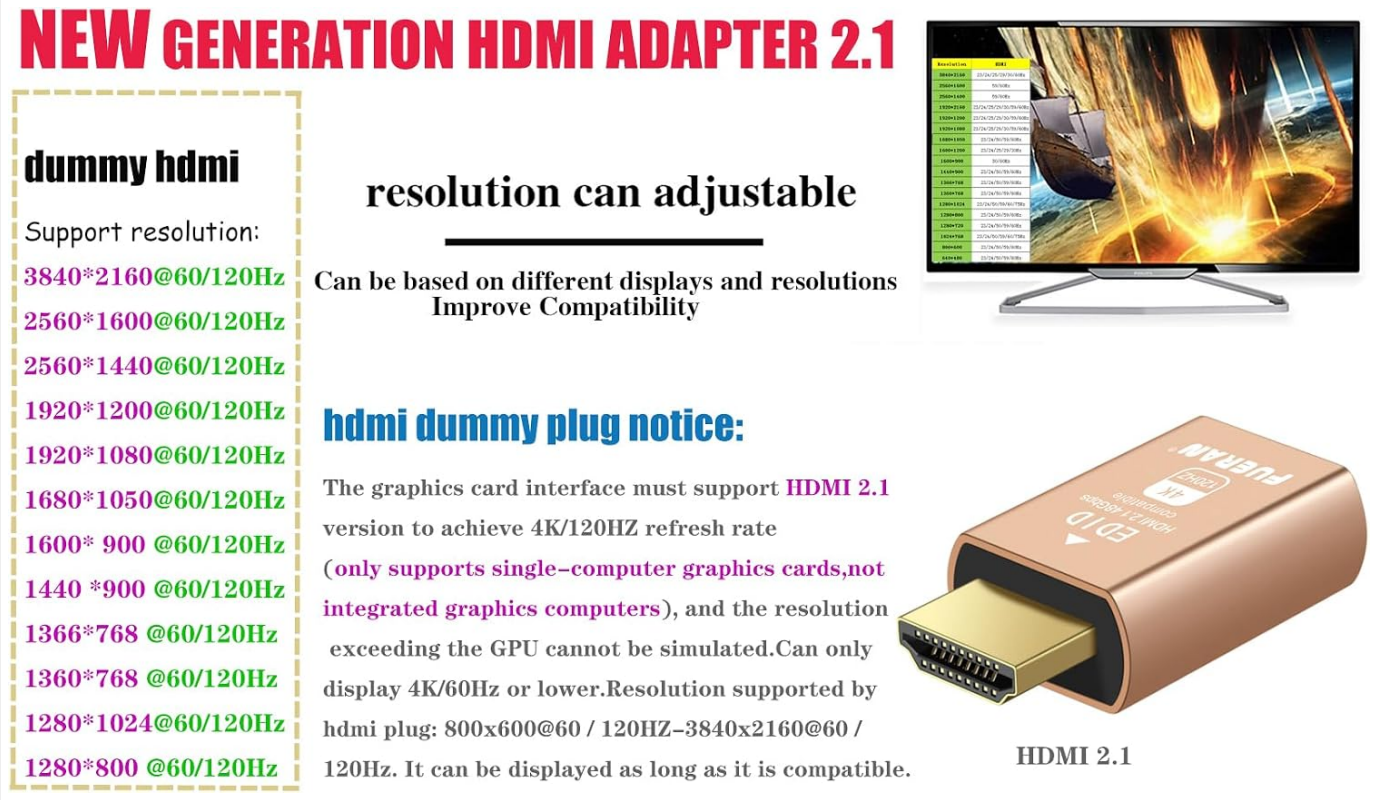


Image 5.1: A visual representation of various supported resolutions and refresh rates for the HDMI 2.1 dummy plug.

6. Maintenance

The Fueran HDMI 2.1 Dummy Plug is a durable device designed for long-term use. To ensure its optimal performance and longevity, follow these simple maintenance guidelines:

- **Cleaning:** Keep the dummy plug clean and free from dust and debris. Use a soft, dry cloth to wipe the exterior. Avoid using liquid cleaners directly on the device.
- **Storage:** When not in use, store the dummy plug in a dry, cool environment, away from direct sunlight and extreme temperatures.
- **Handling:** Handle the device carefully. Avoid applying excessive force when plugging or unplugging it. Do not bend or twist the connector, as this can cause internal damage.
- **Environmental Conditions:** Protect the dummy plug from moisture and humidity, which can lead to corrosion or malfunction.

7. Troubleshooting

If you encounter issues while using the Fueran HDMI 2.1 Dummy Plug, refer to the following troubleshooting steps:

- **Virtual Display Not Detected or Incorrect Resolution:**
  - Ensure the dummy plug is fully and securely inserted into the HDMI port.
  - Verify that your graphics card drivers are up to date.
  - Check your operating system's display settings to confirm the virtual display is active and configured correctly. A system reboot after connecting the dummy plug may resolve detection issues.
- **Low Refresh Rates at Higher Resolutions (e.g., 4K @ 30Hz instead of 60Hz/120Hz):**
  - Confirm that your graphics card and its HDMI port explicitly support the HDMI 2.1 standard. Older HDMI versions (e.g., HDMI 2.0) will limit refresh rates at higher resolutions.

- Ensure your system's display settings are configured for the desired refresh rate.

- **GPU Not Activating:**
  - Double-check the connection of the dummy plug.
  - Some systems may require a full system restart after connecting the dummy plug for the GPU to fully activate and recognize the virtual display.

8. Specifications

Brand	FUERAN
Model Number	FUERAN HDMI 2.1 Dummy Plug
Product Variant	HDMI 2.1-4k-2p
Connector Type	HDMI
Supported Resolutions	Up to 3840x2160@120Hz (HDMI 2.1), 3840x2160@60Hz (HDMI 2.0), and lower resolutions as listed in Section 5.
Dimensions (L x W x H)	25 x 25 x 25 millimeters
Weight	1 Gram
Number of Ports	1
Quantity in Package	1 piece

9. Warranty and Support

Information regarding specific warranty terms and customer support contacts for the Fueran HDMI 2.1 Dummy Plug is not available in the provided product details. For warranty claims, technical assistance, or further inquiries, please refer to the manufacturer's official website or consult your purchase documentation. You may also contact the seller directly through the platform where the product was purchased.

© 2024 FUERAN. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0D4ZBMNX3

More documents and user manuals: **https://manuals.plus/**