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FUERAN HDMI2.1-4K-1P

FUERAN HDMI 2.1 Dummy Plug (Model HDMI2.1-4K-1P) User Manual

Virtual Display Emulator for Headless Systems

1. Introduction

The FUERAN HDMI 2.1 Dummy Plug is a compact, plug-and-play device designed to emulate a connected display for computers operating in a headless configuration. This device tricks your system's Graphics Processing Unit (GPU) into detecting a monitor, thereby enabling full GPU acceleration and allowing for higher resolutions and refresh rates in remote desktop applications, game streaming, and other scenarios where a physical display is not present.

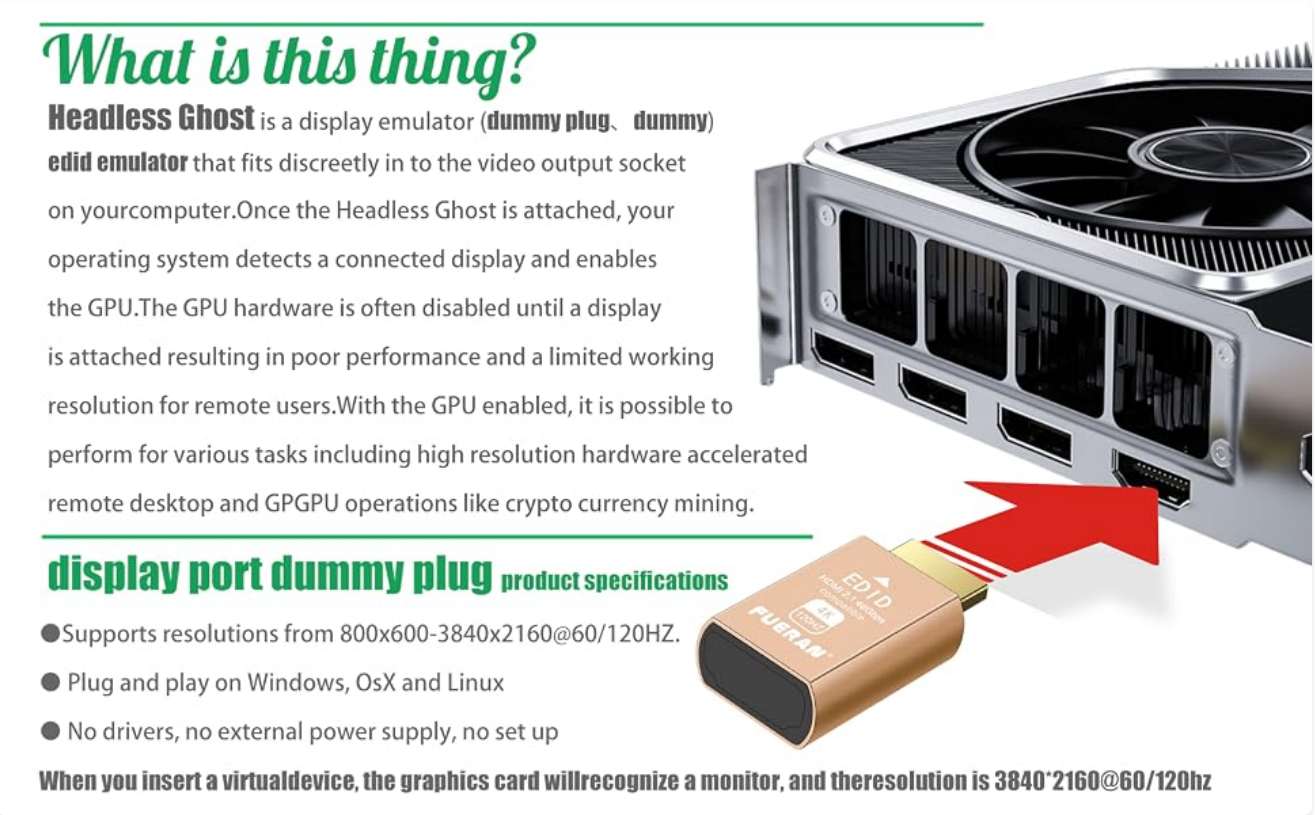


Figure 1: Illustration of the HDMI Dummy Plug's function as a virtual display emulator.

2. Setup

The FUERAN HDMI 2.1 Dummy Plug is designed for simple, driver-free installation.

1. **Identify HDMI Port:** Locate an available HDMI 2.1 port on your computer's graphics card or motherboard. Ensure the port supports HDMI 2.1 for optimal performance, especially for 4K@120Hz resolutions.
2. **Insert Dummy Plug:** Gently insert the HDMI dummy plug into the identified HDMI port. The plug is designed to fit securely.
3. **System Detection:** Your operating system (Windows, macOS, Linux) should automatically detect the dummy plug as a connected display. No additional drivers or software installation is required.
4. **Verify Functionality:** Access your system's display settings to confirm that a new display is detected. You should now be able to select higher resolutions and refresh rates that were previously unavailable in a headless setup.

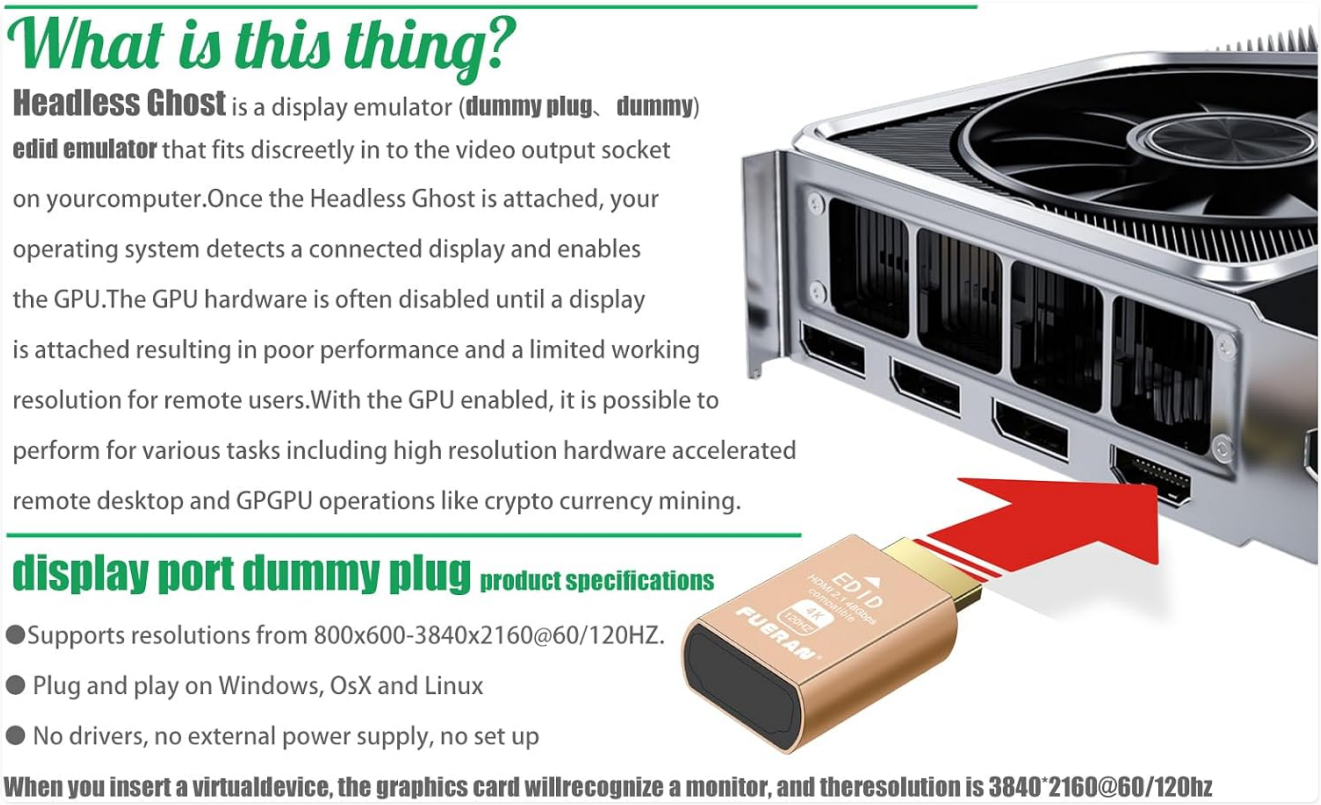


Figure 2: The HDMI Dummy Plug inserted into a graphics card port.

3. Operating the Dummy Plug

Once installed, the dummy plug operates passively, continuously simulating a connected display. This allows your GPU to remain active and render at higher resolutions, which is crucial for various applications:

- **Remote Desktop:** Enables high-resolution remote access via applications like TeamViewer, AnyDesk, or VNC, preventing issues like black screens or limited resolution options.
- **GPU Acceleration:** Ensures your graphics card operates at full capacity, beneficial for tasks such as cryptocurrency mining, video rendering, and complex simulations.
- **Game Streaming/VR:** Provides the necessary display detection for optimal performance in game streaming services (e.g., Steam Link, Moonlight) and Virtual Reality (VR) environments.

- **Server Management:** Ideal for headless servers (e.g., Raspberry Pi, Mac Mini) where a physical monitor is not permanently attached but high-resolution output is desired for remote administration.



Figure 3: Example of display settings showing 4K@120Hz resolution enabled by the dummy plug.

4. Maintenance

The FUERAN HDMI 2.1 Dummy Plug requires minimal maintenance due to its passive design. Keep the plug clean and free from dust. Store it in a dry environment when not in use. Avoid exposing it to extreme temperatures or physical impact.

5. Troubleshooting

- **No Display Detected:**
  - Ensure the dummy plug is fully inserted into the HDMI port.
  - Verify that your graphics card and its drivers are up to date.
  - Restart your computer after inserting the dummy plug. Some systems may require a reboot to properly register the EDID (Extended Display Identification Data).
- **Incorrect Resolution/Refresh Rate:**
  - Check your operating system's display settings to manually select the desired resolution and refresh rate.
  - Confirm that your graphics card and the HDMI port support the desired HDMI 2.1 specifications (e.g., 4K@120Hz). The graphics card interface must support HDMI 2.1 to achieve 4K/120Hz refresh rate.
- **Remote Desktop Lag/Performance Issues:**

- Ensure the dummy plug is correctly detected and enabling GPU acceleration.
- Verify your network connection for remote desktop stability.

- **Overheating:**
  - While designed for low power consumption, prolonged high-load usage might cause slight warmth. Ensure adequate airflow around the device.

6. Specifications

Feature	Detail
Model Number	HDMI2.1-4K-1P (602835399030)
Connector Type	HDMI
Supported Resolutions	Up to 3840x2160@120Hz, 1440P@120Hz, 1080P@120Hz (Requires HDMI 2.1 compatible graphics card for 4K@120Hz)
Operating Systems	PC Windows, Mac Mini OSX, Linux
Dimensions (L x W x H)	1 x 1 x 1 inches
Item Weight	0.035 ounces
Special Features	Gold-plated connector, low power consumption, plug & play, EDID emulator

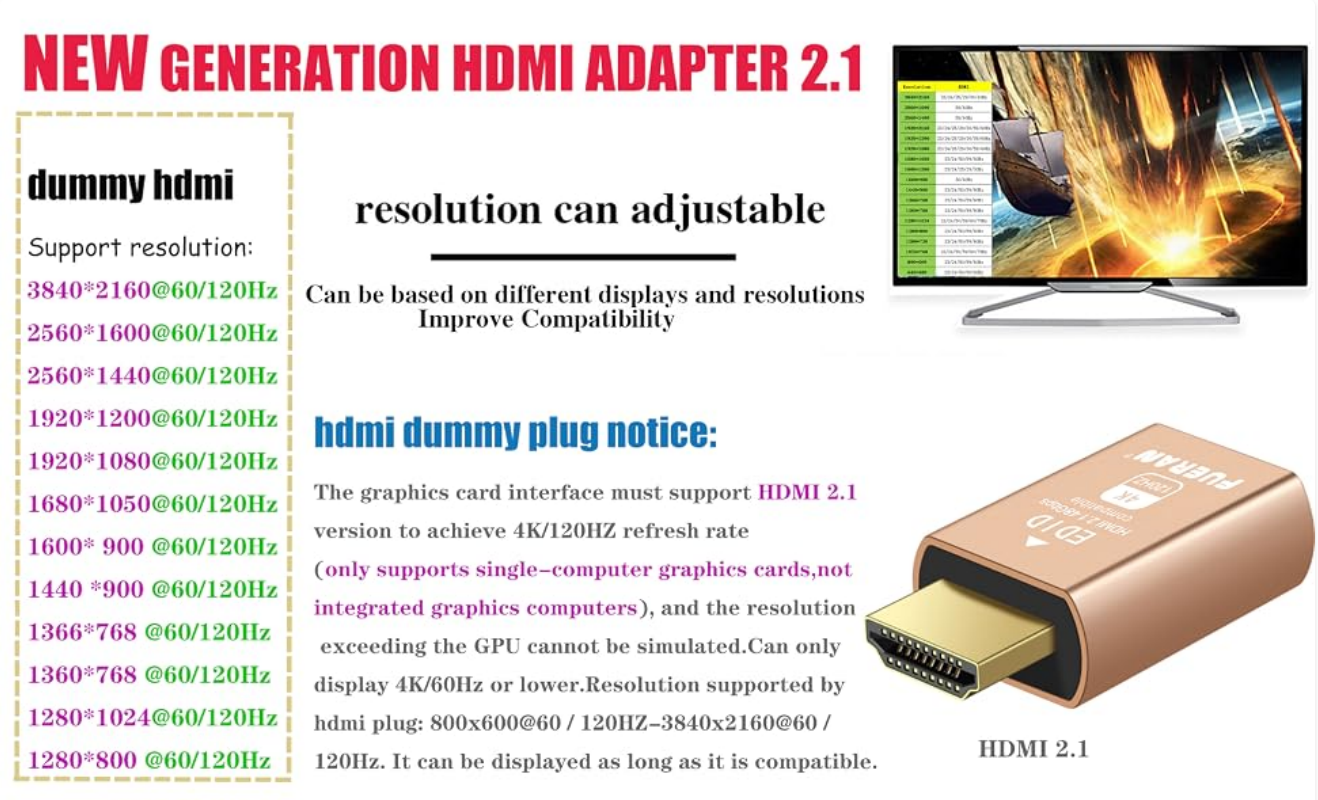


Figure 4: Resolution compatibility details for the HDMI 2.1 Dummy Plug.

7. Warranty and Support

For warranty information and technical support, please refer to the product packaging or contact FUERAN customer service through the retailer where the product was purchased. Keep your proof of purchase for warranty claims.

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