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FUERAN HDMI2.0-2K-1P

FUERAN HDMI Dummy Plug Headless Ghost Display Emulator (HDMI2.0-2K-1P) Instruction Manual

Model: HDMI2.0-2K-1P | Brand: FUERAN

1. Introduction

The FUERAN HDMI Dummy Plug is a compact device designed to emulate a connected display for systems operating without a physical monitor. This is particularly useful for headless server setups, remote desktop applications, and GPU-accelerated tasks such as cryptocurrency mining. By simulating a display, the dummy plug ensures that your graphics card remains active and provides access to higher resolution options and improved performance for remote access.



Image 1.1: The FUERAN HDMI Dummy Plug, a compact device designed to emulate a display.

2. Setup Instructions

The FUERAN HDMI Dummy Plug is a plug-and-play device that requires no drivers, software installation, or external power. Follow these simple steps to set up your dummy plug:

1. Locate an available HDMI output port on your computer's graphics card.
2. Insert the FUERAN HDMI Dummy Plug firmly into the HDMI port.
3. The system will automatically detect the virtual display.



Image 2.1: The HDMI Dummy Plug inserted into a computer's HDMI port, indicating a simple plug-and-play connection.

3. Operating Instructions

Once the HDMI Dummy Plug is connected, your operating system will recognize a virtual display. This allows you to adjust display settings and utilize GPU acceleration even without a physical monitor.

Adjusting Display Resolution:

1. Access your computer's display settings (e.g., System Preferences > Displays on macOS, Display Settings on Windows, or relevant settings in Linux).
2. You will now see options for the detected virtual display.
3. Select the desired resolution. For the HDMI2.0-2K-1P model, resolutions up to 1920x1080@60Hz are supported, with some variants supporting higher resolutions like 4K.
4. Apply the changes. Your remote desktop or headless application will now operate at the selected resolution.

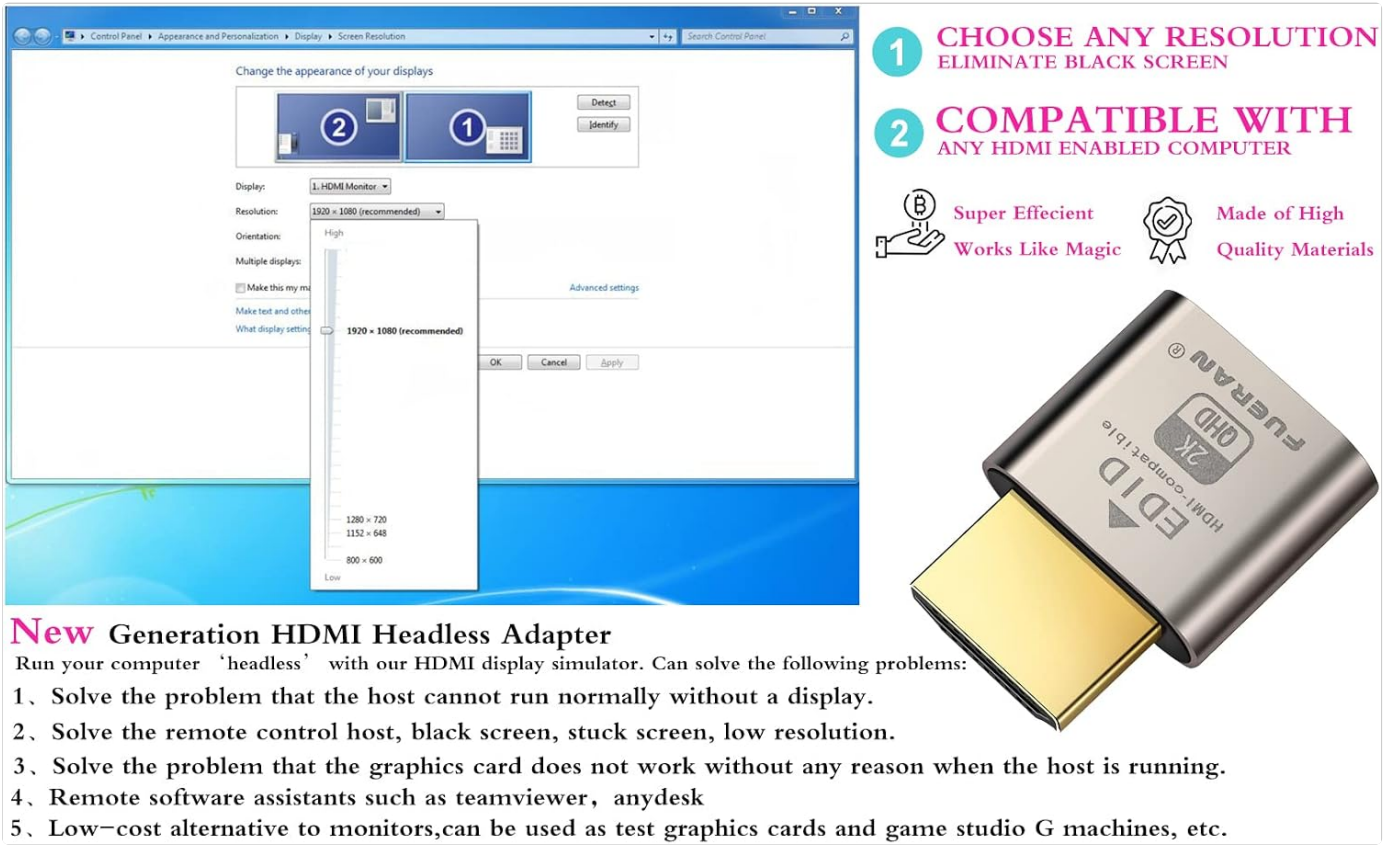


Image 3.1: A screenshot illustrating how to access and modify display resolution settings within an operating system after connecting the dummy plug.

Demonstration Video:

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Video 3.1: This video demonstrates the functionality of the FUERAN HDMI Dummy Plug, showing how it is connected and how it enables resolution adjustments on a computer for headless operation.

4. Features and Benefits

- **Universal Compatibility:** Works with any graphics card that has an HDMI output, ensuring broad usability.
- **Broad OS Support:** Compatible with Windows, OSX, and Linux operating systems.
- **Compact Design:** Features an ultra-compact, low-profile design for discreet integration.
- **Effortless Operation:** Requires no drivers, configuration, or external power supply; simply plug and use.
- **Enhanced Remote Desktop:** Facilitates high-resolution, GPU-accelerated remote desktop experiences.
- **GPU Task Support:** Ideal for GPU-intensive tasks such as cryptocurrency mining, ensuring the GPU operates at full capacity.

5. Specifications

Specification	Detail
Brand	FUERAN
Model Number	FUERAN-002
Color (Variant)	HDMI2.0-2K-1P
Connector Type	HDMI
Compatible Devices	PC Windows, Mac Mini OSX, Linux (ideal for headless gaming PCs, virtual desktop, game streaming, VR, mini servers with screen sharing)
Specific Uses For Product	PC
Item Dimensions (L x W x H)	0.98 x 0.79 x 0.39 inches
Item Weight	1 Grams
Number of Ports	1
Power Plug Type	No Plug
UPC	738920714119, 765470559020



Resolution	HDMI 2.0(2K)	HDMI 2K(HDR)	HDMI 2.0(4K)	HDMI2K(HDR)	HDMI 2.1(4K)	HDMI(8K)	DP(2K)	NEWDP(4K)	mini DP	DVI	VGA	type-c
7680*4320						17/20Hz						
4096*2160	23/25/29/30	30/50/59/60Hz	30/50/59/60Hz	30/50/59/60Hz				30/50/59/60Hz				
3840*2160		30/50/59/60Hz	30/50/59/60Hz	30/50/59/60Hz	60/120Hz	17Hz	17Hz	30/50/59/60Hz	17Hz			
2880*1800	30Hz		30Hz					30Hz				
2560*1600	60Hz	59/60Hz	60Hz	59/60Hz	60/120Hz		30Hz	60Hz	30Hz	30Hz		
2560*1440	30/59/60Hz	59/60Hz	59/60Hz	59/60Hz	60/120Hz		30Hz	60Hz	30Hz	30Hz		
2048*1536	60Hz	30/50/59/60Hz	60Hz	30/50/60Hz			30Hz	60Hz	30Hz	30Hz		
1920*1440	59/60Hz	30/50/59/60Hz	59/60Hz	30/50/59/60Hz			30Hz	60Hz	30Hz	30Hz		
1920*1200	60Hz	30/50/59/60Hz	60Hz	30/50/59/60Hz	60/120Hz		30Hz	60Hz	30Hz	59/60Hz		
Default Resolution 1920*1080	29/50/59/60	30/50/59/60Hz	60/119/ 120Hz	30/50/59/60Hz	60/120Hz	60Hz	60Hz	60/119/120Hz	60Hz	60Hz	60Hz	60Hz
1800*1440								60Hz				
1792*1344								60Hz				
1680*1050	60/119/120Hz	30/50/59/60Hz	60/119/120Hz	30/50/59/60Hz	60/120Hz	60Hz	59/60Hz	60/119/120Hz	60Hz	59/60Hz	59/60Hz	59/60Hz
1600*1200	60Hz	30/50/59/60Hz	60Hz	50/59/60Hz			30Hz	60Hz	30Hz	59/60Hz	59/60Hz	59/60Hz
1600*1024	59/60Hz	30/50/59/60Hz	60/119/120Hz	50/59/60Hz		60Hz	59/60Hz		59/60Hz	59/60Hz	59/60Hz	59/60Hz
1600*900	60/119/120Hz	30/50/59/60Hz	60/119/120Hz	30/50/59/60Hz	60/120Hz	60Hz	60Hz	60/119/120Hz	60Hz	60Hz	60Hz	60Hz
1440*900	60Hz	30/50/59/60Hz	60/119/120Hz	50/59/60Hz	60/120Hz	60Hz	60Hz	60/119/120Hz	60Hz	60Hz	60Hz	60Hz
1366*768	60Hz	30/50/59/60Hz	60/119/120Hz	30/50/59/60Hz	60/120Hz	60Hz	60Hz	60/119/120Hz	60Hz	60Hz	60Hz	60Hz
1360*1024								60/119/120Hz				
1360*768	60Hz	60Hz	60/119/120Hz	60Hz	60/120Hz	60Hz	60Hz	60/119/120Hz	60Hz	60Hz		60Hz
1280*1024	60/75Hz	60Hz	60/119/120Hz	60Hz	60/120Hz	60Hz	60/75Hz	60/119/120Hz	60Hz	60/75Hz	60/75Hz	60/75Hz
1280*960	60/75Hz	60Hz	60/119/120Hz	60Hz		60Hz	60/75Hz	60/119/120Hz	60Hz	60/75Hz	60/75Hz	60/75Hz
1280*800	60Hz	60Hz	60/119/120Hz	60Hz	60/120Hz	60Hz	60Hz	60/119/120Hz	60Hz	60Hz	60Hz	60Hz
1280*768	60Hz	600Hz	60/119/120Hz	60Hz		60Hz	60Hz	60/119/120Hz	60Hz	60Hz	60Hz	60Hz
1280*720	50/59/60Hz	60Hz	60/119/120Hz	60Hz		60Hz	60Hz	60/119/120Hz	60Hz	60Hz	60Hz	60Hz
1176*664	50/60	60Hz	50/60	60Hz								
1152*648	60Hz	60Hz	60/119/120Hz	60Hz		60Hz	75Hz	50/59/60Hz	75Hz	60/75Hz	75Hz	
1024*768	60/70/75Hz	60Hz	60/119/120Hz	60Hz		60Hz	60/70/75Hz	60/119/120Hz	60/70/75Hz	60/70/75Hz	60/75Hz	60/75Hz
800*600	56/60/75Hz	60Hz	60/119/120Hz	60Hz		60Hz	56/60/72/75Hz	60/119/120Hz	60/72/75Hz	56/60/72/75Hz	56/60/72/75Hz	60/75Hz
720*576	50Hz	59Hz	59/119/120Hz	50Hz			56/60/72/75Hz	60/119/120Hz	56/60//75Hz	56/60/72/75Hz	56/60/72/75Hz	
720*480	59/60Hz	59/60Hz	60/119/120Hz	59/60Hz		60Hz	56/60/72/75Hz	60/119/120Hz	56/60//75Hz	56/60/72/75Hz	60/72/75Hz	60/75Hz
640*480	59/60Hz	60Hz	60/119/120Hz	60Hz		60Hz	60/72/75Hz	60/119/120Hz	60//75Hz	60/72/75Hz	60/75Hz	60Hz

Image 5.1: A detailed table outlining the various resolutions and refresh rates supported by different FUERAN dummy plug models.

6. Troubleshooting

Issue: Display not detected or resolution options are limited.

- **Solution 1:** Ensure the dummy plug is securely inserted into an active HDMI port on your graphics card.
- **Solution 2:** Restart your computer after inserting the dummy plug to allow the system to properly detect the new display configuration.
- **Solution 3:** Verify that your graphics card drivers are up to date. Outdated drivers can sometimes prevent proper display detection.
- **Solution 4:** Check your operating system's display settings to confirm the virtual display is recognized and to manually select the desired resolution.

Issue: Remote desktop performance is poor or laggy.

- **Solution 1:** Confirm that the dummy plug is enabling the desired high resolution (e.g., 1920x1080 or higher) in your display settings. Lower resolutions can sometimes lead to suboptimal remote performance.
- **Solution 2:** Ensure you have a stable and high-bandwidth network connection for remote access. Poor network conditions can significantly impact performance.
- **Solution 3:** Close unnecessary applications on both the host and client machines to free up system resources.

7. Warranty and Support

The FUERAN HDMI Dummy Plug (HDMI2.0-2K-1P) comes with a limited warranty, typically covering 12 months from the date of purchase. For detailed warranty information, technical support, or to explore other FUERAN products, please visit the official FUERAN store:
Visit the FUERAN Store on Amazon

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