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› FUERAN 4K-1P HDMI Dummy Plug Virtual Monitor Display Emulator User Manual

FUERAN 4K-1P

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Model: 4K-1P

1. INTRODUCTION

The FUERAN 4K-1P HDMI Dummy Plug is a compact device designed to emulate a connected display, allowing a computer to operate as if a monitor is attached, even when it is not. This is particularly useful for remote desktop applications, server management, cryptocurrency mining, and other headless operations where a physical display is not required but a graphics output signal is needed for proper system function and resolution management.

This emulator supports high resolutions up to 3840x2160@60Hz and 1080@120Hz, ensuring that your system's graphics card operates at its full potential, preventing issues like black screens, screen freezing, or low resolution when accessed remotely.



Image 1.1: The FUERAN 4K-1P HDMI Dummy Plug, a compact device designed to emulate a display.

2. SETUP

Setting up the FUERAN 4K-1P HDMI Dummy Plug is a straightforward process. No software installation or external power

is required.

1. **Identify the HDMI Port:** Locate an available HDMI port on your computer, server, or graphics card.
2. **Insert the Dummy Plug:** Gently insert the FUERAN HDMI Dummy Plug into the HDMI port. Ensure it is fully seated.
3. **System Recognition:** Your operating system should automatically detect the virtual display. This may take a few moments.
4. **Configure Resolution (Optional):** If necessary, access your operating system's display settings to adjust the resolution to your desired specifications. The device supports various resolutions up to 3840x2160@60Hz and 1080@120Hz.

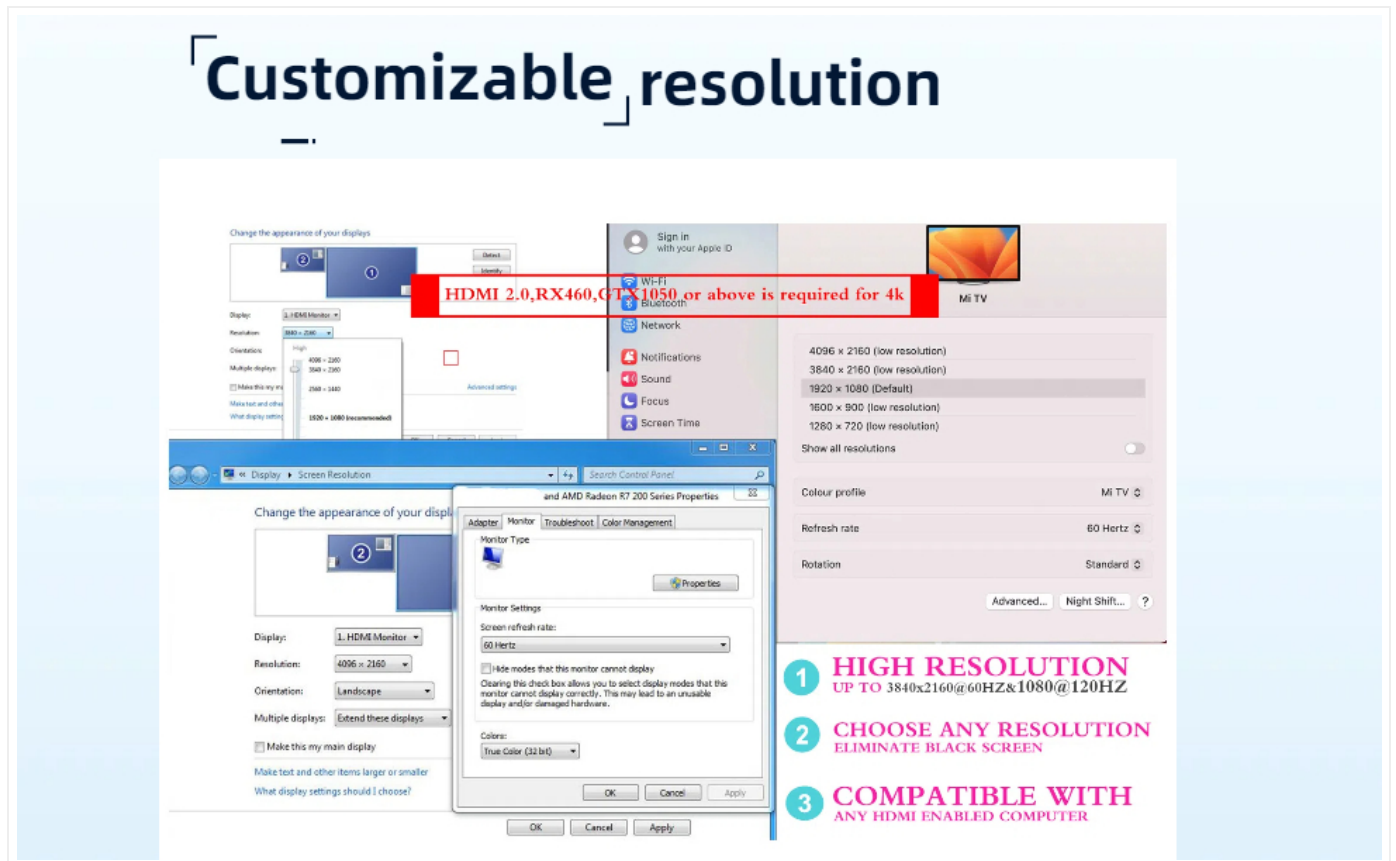


Image 2.1: Example of display settings showing resolution options when the dummy plug is connected.

3. OPERATING INSTRUCTIONS

The FUERAN HDMI Dummy Plug functions by emulating an Extended Display Identification Data (EDID) signal, which tricks the graphics card into believing a monitor is connected. This allows the GPU to render a desktop environment at a specified resolution.

3.1 Key Functions and Benefits

- **Headless Operation:** Enables remote access to a computer without a physical monitor, ideal for servers, mining rigs, or home theater PCs.
- **High Resolution Remote Desktop:** Supports hardware-accelerated remote desktop access at resolutions up to 3840x2160@60Hz and 1080@120Hz. This prevents issues like low resolution or black screens during remote sessions.
- **GPU Activation:** Ensures the graphics card is fully active and rendering, which is crucial for tasks requiring GPU acceleration, such as cryptocurrency mining, video rendering, and simulations.
- **Operating System Compatibility:** Compatible with various operating systems including Windows, macOS, and Linux.

Product Advantages

4K Ultra HD Resolution :

3840x2160@60Hz&1080@120Hz, Supports EDID and discrete graphics cards.

Strong compatibility:

Uses high-performance chip for clear and stable signal transmission, with no ghosting or distortion; compatible with macOS, Windows, Linux, and other systems.

Plug and Play:

Simply plug it into the computer host to use immediately, allowing resolution adjustment and remote control of the computer.

Compact and portable:

Small size, intelligent chip, low power consumption, no heat generation.



Image 3.1: Visual representation of the product's advantages, including 4K Ultra HD resolution and broad compatibility.

3.2 Supported Resolutions

The device supports a range of resolutions and refresh rates. The default resolution is 1920x1080@60Hz, but it can be configured for higher settings.

Uses of HDMI Virtual Display

Resolution	HDMI(4K)
4096*2160	23.2/24.2/29/30/50/59/60Hz
3840*2160	23.2/24.2/25/29/30/50/59/60Hz
2880*1800	30Hz
2560*1600	60Hz
2560*1440	59/60Hz
2048*1536	60Hz
1920*1440	59/60Hz
1920*1200	60Hz
1920*1080	23.2/24.2/25/29/30/50/59/60/119/ 120Hz
1680*1050	60/119/120Hz
1600*1200	60Hz
1600*1024	59/60/119/120Hz
1600*900	60/119/120Hz
1440*900	60/119/120Hz
1366*768	60/119/120Hz
1360*768	60/119/120Hz
1280*1024	60/119/120Hz
1280*960	60/119/120Hz
1280*800	60/119/120Hz
1280*768	60/119/120Hz
1280*720	50/59/60/119/120Hz
1176*664	50/60
1152*648	60/119/120Hz
1024*768	60/119/120Hz
800*600	60/119/120Hz
720*576	59/119/120Hz
720*480	59/60/119/120Hz
640*480	60/119/120Hz

- ✓ Solves the issue where the host cannot operate normally without a physical monitor, enabling remote control.
- ✓ Resolves black screen, screen freezing, and low resolution problems.
- ✓ Prevents the host from unexpectedly stopping during operation due to inactive GPU.
- ✓ Allows game studios and other scenarios to run headlessly without a monitor, such as unattended operation.



Image 3.2: A table detailing various supported resolutions and their corresponding refresh rates for the HDMI virtual display.

Note: The actual maximum resolution and refresh rate achievable may depend on your graphics card's capabilities and the specific remote access software used.

4. MAINTENANCE

The FUERAN HDMI Dummy Plug is a passive device and requires minimal maintenance.

- **Cleaning:** If necessary, gently wipe the exterior with a dry, soft cloth. Avoid using liquid cleaners or solvents.
- **Storage:** Store the device in a cool, dry place when not in use.
- **Handling:** Handle the plug by its body, avoiding excessive force on the connector pins.

5. TROUBLESHOOTING

If you encounter issues while using the FUERAN HDMI Dummy Plug, consider the following troubleshooting steps:

- **No Virtual Display Detected:**
 - Ensure the dummy plug is fully inserted into the HDMI port.
 - Try a different HDMI port on your graphics card or computer.
 - Restart your computer after inserting the dummy plug.
 - Update your graphics card drivers to the latest version.
- **Low Resolution or Incorrect Refresh Rate:**
 - Access your operating system's display settings and manually adjust the resolution and refresh rate.
 - Verify that your graphics card supports the desired resolution and refresh rate.
 - Some remote desktop software may have limitations on resolution; check its settings.
- **Remote Desktop Issues (Black Screen, Freezing):**
 - Ensure the dummy plug is securely connected.
 - Confirm that your remote desktop software is configured correctly and supports the emulated resolution.
 - The dummy plug is designed to prevent these issues by activating the GPU; if they persist, check your remote software or network connection.
- **Not an HDMI Transmitter/Receiver:** This device is an emulator, not for transmitting or receiving video signals. It does not support HDCP.

6. SPECIFICATIONS

Model	FUERAN 4K-1P
Connector Type	HDMI
Supported Resolutions	Up to 3840x2160@60Hz, 1080@120Hz (Default: 1920x1080@60Hz)
Compatibility	PC (Windows, macOS, Linux)
Dimensions (L x W x H)	Approximately 1 x 1 x 1 inches
Item Weight	Approximately 0.035 ounces
Features	EDID Emulator, Gold-plated connector, Plug and Play

7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the product packaging or contact FUERAN customer service directly. Details can often be found on the official FUERAN website or through your point of purchase. For further assistance, you may visit the FUERAN Store on Amazon.

