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FUERAN 1920X1080 (adjustable 2K, 4K)

FUERAN HDMI EDID Emulator Adapter User Manual

Model: 1920X1080 (adjustable 2K, 4K)

Introduction

The FUERAN HDMI EDID Emulator Adapter is designed to maintain stable display settings for your HDMI-connected devices. It prevents common issues such as resolution drops, desktop rearrangement, and signal loss, especially in multi-monitor setups, KVM switch environments, or when using headless servers. This adapter ensures consistent video output by emulating a connected display's EDID (Extended Display Identification Data), allowing your system to always recognize a display, even if it's turned off or disconnected.

Key Features

- **Bi-directional EDID Transmission:** Supports both male and female HDMI signal sources, ensuring proper EDID communication in various configurations.
- **Plug & Play Simplicity:** Requires no drivers, software, or external power. It is hot-swappable for easy integration.
- **Fixed EDID Lock & Virtual Monitor:** Passes video and audio signals correctly during power cycles or device swaps. Functions as a virtual monitor for headless servers or remote desktop applications.
- **Prevents Desktop Rearrangement:** Maintains current desktop arrangement and resolution in multi-monitor setups, even if a display is disconnected or powered off.
- **Wide Compatibility:** Compatible with Mac Mini, MacBook (Thunderbolt/USB C to HDMI), Raspberry Pi, NUC, Jetson Nano, KVM switches, AV receivers, extenders, and more.
- **Stable Output:** Ensures your system remains synchronized, preventing resolution resets, flickers, or signal loss.

Setup

The FUERAN HDMI EDID Emulator Adapter is designed for straightforward installation. Follow these steps to integrate it into your system:

1. Identify the HDMI output port on your source device (e.g., computer, KVM switch, AV receiver).
2. Connect the male end of the FUERAN HDMI EDID Emulator Adapter directly into the HDMI output port of your source device.

3. Connect your HDMI cable from your display (monitor, TV, projector) into the female port of the FUERAN HDMI EDID Emulator Adapter.
4. Ensure all devices are powered on. The adapter will automatically emulate the EDID information, providing a stable signal to your system.

This device supports hot-swapping, allowing you to connect or disconnect it without needing to restart your system or other connected devices. No drivers or external power are required for operation.



Image: The FUERAN HDMI EDID Emulator Adapter. It features a gold-plated male HDMI connector on one end and a female HDMI port on the other. The device is black with white text indicating 'EDID', 'FUERAN', and 'Can adjust resolution to 2K or 4K, Default 1920x1080@60/120Hz'.

Operating

Once connected, the FUERAN HDMI EDID Emulator Adapter operates automatically to ensure display stability. Its primary functions include:

- **Consistent Display Recognition:** Your operating system (Windows, macOS, Linux) will continuously detect a connected display, even if the physical monitor is turned off, disconnected, or if you are accessing the system remotely.
- **Preventing Desktop Rearrangement:** In multi-monitor configurations, the adapter prevents your desktop icons and window layouts from being rearranged when a monitor is powered off or reconnected.
- **Virtual Monitor Functionality:** For headless servers or remote desktop applications, the adapter acts as a 'dummy plug,' allowing your system to render a desktop environment at a specified resolution without a physical display attached. This is particularly useful for remote management and GPU-accelerated tasks.
- **Resolution Stability:** The adapter locks in the EDID information, ensuring that your preferred resolution and refresh rate are maintained across system restarts, KVM switches, or other signal interruptions.

Supported Resolutions (Examples):

- 3840 x 2160 @ 60Hz
- 2560 x 1440 @ 60Hz
- 1920 x 1200 @ 60Hz
- 1920 x 1080 @ 60/120Hz (Default Resolution)
- 1680 x 1050 @ 60/120Hz
- 1600 x 1200 @ 60/120Hz
- 1600 x 1024 @ 60/120Hz

- 1600 x 900 @ 60/120Hz
- 1440 x 1080 @ 60/120Hz
- 1440 x 900 @ 60/120Hz
- 1366 x 768 @ 60/120Hz
- 1360 x 768 @ 60/120Hz
- 1280 x 1024 @ 60/120Hz
- 1280 x 960 @ 60/120Hz
- 1280 x 800 @ 60/120Hz
- 1280 x 768 @ 60/120Hz
- 1280 x 720 @ 60/120Hz
- 1176 x 664 @ 60/120Hz
- 1152 x 864 @ 60/120Hz
- 1024 x 768 @ 60/120Hz
- 800 x 600 @ 60/120Hz

Maintenance

The FUERAN HDMI EDID Emulator Adapter requires minimal maintenance. To ensure optimal performance and longevity:

- Keep the adapter clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the adapter to extreme temperatures, humidity, or direct sunlight.
- Handle the adapter gently to prevent physical damage to the connectors or internal components.
- Ensure secure connections to prevent signal interruptions.

Troubleshooting

The HDMI EDID Emulator Adapter is designed to resolve common display issues. If you encounter problems, consider the following:

- **No Display or Incorrect Resolution:** Ensure the adapter is securely connected between your source device and the HDMI cable leading to your display. Verify that your display and source device are powered on.
- **Desktop Rearrangement Still Occurs:** Confirm the adapter is correctly installed and that your operating system recognizes a continuous display connection. This adapter is specifically designed to prevent such issues.
- **Compatibility Issues:** While broadly compatible, ensure your specific setup (e.g., KVM switch model, display type) is generally compatible with HDMI EDID emulation.
- **HDCP Not Supported:** Please note that this adapter does not support HDCP (High-bandwidth Digital Content Protection). Content requiring HDCP may not display correctly.

For persistent issues, refer to the support information provided in this manual.

Specifications

Feature	Detail

Feature	Detail
Model Number	1920X1080 (adjustable 2K, 4K)
ASIN	B0FL93Y452
Brand	FUERAN
Connector Type	Plug In (HDMI Male to HDMI Female)
Default Resolution	1920x1080@60Hz
Highest Supported Resolution	3840x2160@60Hz
Chroma Sampling Options	YCbCr 4:4:4, 4:2:2, 4:2:0, RGB
Audio Support	2.1 Channel Audio
Power Requirement	No external power required (low power consumption)
Hot-Swappable	Yes
HDCP Support	No
Item Weight	0.035 ounces (approx. 1 Grams)
Package Dimensions	5.75 x 4.65 x 0.31 inches
Compatible Devices	Desktop PCs and laptops (Mac and Windows), KVM switches, HDMI splitters, extenders, video switchers, LCD monitors, 4K/2K/1080P TVs, projectors, Mac Mini, MacBook, iMac (including Thunderbolt/USB-C to HDMI adapters), Raspberry Pi, Intel NUC, Jetson Nano, and other development boards, Capture cards, surveillance equipment, digital signage systems, Remote desktops, headless servers, industrial computers.

Warranty and Support

FUERAN provides professional technical support for this product. If you have any questions or require assistance, please contact our support team. While specific warranty details are not provided in this manual, please refer to your purchase documentation or contact FUERAN customer service for warranty information.

Technical Support: 24-hour professional technical support is available.

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