Mini HDMI EDID Emulator

Thank you for purchasing this product:

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended:

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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Introduction:

This HDMI EDID emulator can correctly record the monitor model and simulate storage on the device, solving the problem of abnormal display or resolution mismatch caused by incorrect EDID in video playback devices or video installation integration.

Features:

- ❖ Supports HDMI 2.0 and lower with backward compatibility.
- ❖ Supports resolutions up to 4K@60Hz and 1080p@144Hz.
- ❖ Compatible with HDCP.
- ❖ Supports 3D playback, Deep Color, and CEC.
- ❖ Supports Dolby True HD and DTS HD Master Audio.
- ❖ EDID mode switch button.
- ❖ LED light indication (**Green**/**Blue**).
- ❖ Build a set of universal EDID.
- ❖ Can be installed in both directions and connected to the device or display end.
- ❖ No additional power supply required, powered through HDMI compatible devices.

Product Description:

1. HDMI output (connects to HDMI display).
2. LED status (**Green** for internal preset EDID, **Blue** for external EDID).
3. HDMI input (connects to HDMI source).
4. EDID mode button (Internal/External).

Package Contents:

- 1x EDID Emulator

Requirements:

Source: PC, notebook, gaming console, or devices with HDMI output

Display: Monitor, projector, or TV with HDMI input and a resolution of 1080p or higher

Cables: High quality HDMI cable that supports HDMI 1.4, 2.0, or higher

HDMI 2.1 GFX Card Compatibility Issues:

HDMI 2.1 video cards are not fully supported and may cause constant SCDC signal checking and EDID copy failure.

LED Power Saving:

If the EDID emulator is not set or operated for 20 seconds, the LED indicator will enter the off state. Press the button to return to the previous indicator state, and then continue operation.

Start With Basic Connection:

Connect your devices as shown below and make sure the basic functions are working.
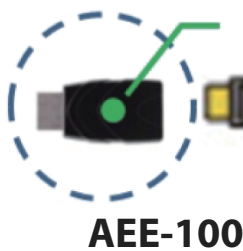
**Source
(HDMI)**　　　　　**Cable
(HDMI)**　　　　　**Display
(HDMI)**

Add EDID Emulator:

1. Connect EDID emulator between source and cable.
2. Press the button and switch to Internal mode (Green LED). The source should detect a 1080p monitor.

Green

**Source
(HDMI)**　　**AEE-100**　　**Cable
(HDMI)**　　　　　**Display
(HDMI)**

During System Integration:

If you are connecting many layers of devices in your system integration, the EDID emulator might not work properly. Please simplify your connection and start from one PC and monitor. After ensuring the basic function, then add another layer of devices to avoid interference.

How To Copy External EDID:

1. When connecting AEE-100 to source and display, press the button for 3 seconds, the LED will blink and then turn **Blue**, indicating that the connected display's EDID has been saved to the emulator's external mode.

    If the HDMI cable is too long or of low quality, AEE-100 might fail to copy EDID. Please use a short and good quality cable or try internal 1080p EDID to verify. If an old monitor's EDID circuit is not proper or damaged, it may not support EDID copy.

2. Press the button to switch to External mode (**Blue LED**), and the HDMI source will receive the External EDID as if a monitor is connected. Alternatively, pressing the button and turning the LED **Green** will detect the preset 1080p EDID.

BLUE
For External EDID

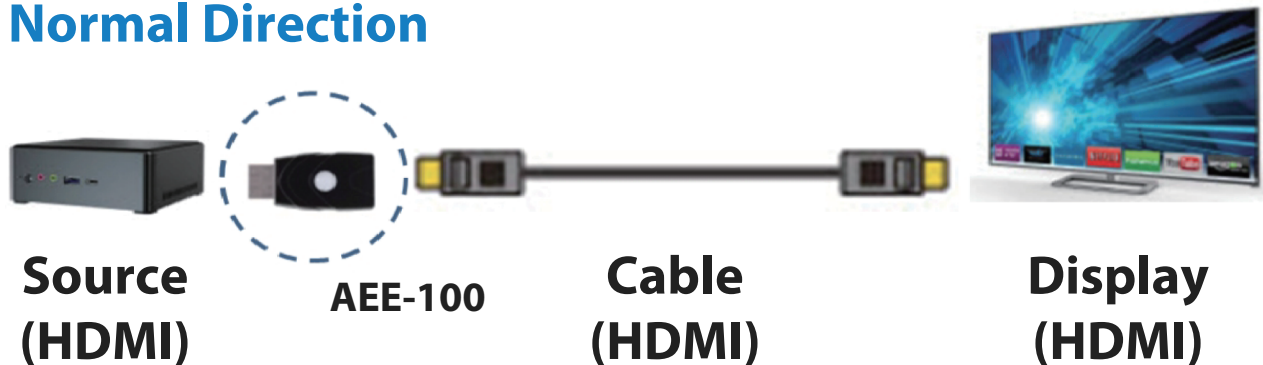**Press button 3 seconds to activate Copy mode**

Headless Operation:

You can plug the emulator to a source without a display or with the display turned off, and the source will still function as if the display were connected.
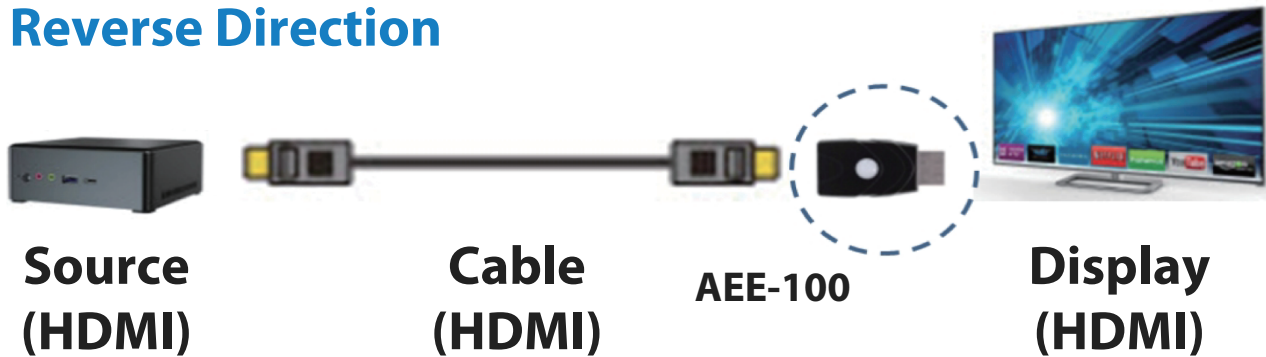
Bi-Directional Design:

The AEE-100 can be connected to the HDMI source. After setting the desired EDID mode on the emulator, it can be connected in the reverse direction.

Normal Direction

Source (HDMI) **AEE-100** **Cable (HDMI)** **Display (HDMI)**

Reverse Direction

Source (HDMI) **Cable (HDMI)** **AEE-100** **Display (HDMI)**

How To Reset:

Hold the button on the emulator, then plug it into the HDMI output of a booted PC. Then the LED will blink **Blue** 6 times, and the internal preset EDID will be recovered to 1080p and external EDID to 4K@60Hz with HDR.

HDCP Bypass:

The AEE-100 supports EDID pass-through, which means your HDMI output device will bypass the EDID emulator to read the display's HDCP key through HDMI pins 15 and 16. If the display's HDCP key is not available or does not work, the screen or the content window will show either blank or with lower resolution depending on the design of the HDMI output device. You may need to try another display with proper HDCP function and reboot.

Preset EDID Supported Resolution & Frequency:

Internal EDID: 1920x1080 (60Hz)

External EDID: It will be covered by new EDID values and can be recovered via RESET.

Technical Specification & Compatible Resolutions:

- 720×480 (59, 60Hz)
- 720×576 (59, 60Hz)
- 800×480 (56, 60, 72, 75Hz)
- 800×600 (56, 60, 72, 75Hz)
- 832×624 (59, 60, 75Hz)
- 1024×600 (60, 70, 75, 120Hz)
- 1024×768 (60, 70, 75, 120Hz)
- 1152×864 (59, 60, 75Hz)
- 1152×872 (59, 60, 75Hz)
- 1280×720 (59, 60Hz)
- 1280×768 (60Hz)
- 1280×960 (60,Hz)
- 1280×1024 (60, 75Hz)
- 1400×1050 (60Hz)
- 1440×900 (60, 120Hz)
- 1600×900 (60Hz)
- 1600×1200(59, 60, 120, 144Hz)
- 1680×1050 (60Hz)
- 1920×1080 (50, 59, 60, 119, 120Hz)
- 1920×1200 (59, 60, 120, 144Hz)
- 2048×1536 (23, 24, 29, 30, 59, 60Hz)
- 2560×1440 (59, 60, 120, 144Hz)
- 3840×1620 (23, 24, 29, 30, 59, 60Hz)
- 3840×1620 (29, 30, 59, 60Hz)
- 3840×2160 (23, 24, 29, 30, 59, 60, 119, 120, 144Hz)

Tech Specifications:

Model Number	AEE-100
Product Name	EDID Learner & Simulator
Input	HDMI Male
Output	HDMI Female
LED Indicator	Green / Blue Light
Power Supply	HDMI Internal Power
Dimension (WxHxD)	41mm x 23mm x 12mm
Weight	20g
Operation Temp.	-10℃ to 50℃
Storage Temp.	-25℃ to 55℃