

DVI-EDID-EMLTR-LC Low-Cost DVI EDID Emulator
VGA-EDID-EMLTR-LC Low-Cost VGA EDID Emulator
EDID-REC-VDH EDID Recorder

Installation Manual



DVI-EDID-EMLTR-LC
(Front and Rear View)



VGA-EDID-EMLTR-LC
(Front and Rear View)



EDID-REC-VDH
(Front and Rear View)

Introduction

DVI-EDID-EMLRT-LC

Product Highlights

- Headless operation
- Video pass-through
- Video Resolutions to 1080p/WUXGA/WQXGA

The DVI-EDID-EMLTR-LC Low-Cost DVI EDID Emulator simulates the presence of an attached DVI display to a DVI video source. The built-in EDID table stores and reproduces resolutions up to 1920x1200 (WUXGA) and 1080p at 60Hz. When used with EDID-REC-VDH EDID Recorder (sold separately), the EDID of a desired DVI display will be copied and stored to the emulator. Resolutions up to 2560x1600@60Hz are supported (however not in the built-in EDID table) only when used in combination with an EDID-REC-VDH EDID recorder (sold separately).

Features-DVI

- Emulates a DVI display (sink device) by providing Hot Plug Detect and EDID to the DVI source device from the emulator's internal memory.
- Supports HDTV resolutions to 1080p, and up to 1920x1200 (WUXGA) with default programming.
 - Dual link resolutions up to 2560x1600 (WQXGA) supported – requires EDID-REC-VDH EDID Recorder (sold separately) to program dual link resolutions to the emulator.
- Supports Emulation and Learning modes.
 - Emulation mode: provides EDID to the DVI source device from the emulator's internal memory.
 - Supports headless operation – no monitor attached to source.
 - The selectable resolutions are dependent on the computer's graphic card.
 - Only DVI-EDID-EMLTR-LC is necessary for this function.
 - **Learning mode requires EDID-REC-VDH EDID Recorder (sold separately):** store a display's EDID for later use.

DVI-EDID-EMLRT-LC

The VGA-EDID-EMLTR-LC Low-Cost VGA EDID Emulator simulates the presence of an attached VGA display to a VGA source with maximum resolution of 1920x1200p. All resolutions up to 1920x1200@60Hz are supported (however not in the built-in EDID table) only when used in combination with an EDID-REC-VDH EDID recorder (sold separately).

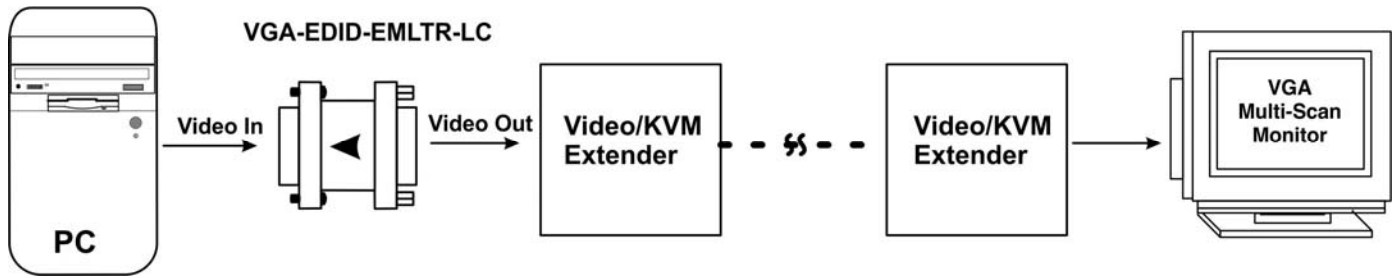
Features-VGA

- Emulates a VGA display (sink device) by providing EDID to the VGA source device from the emulator's internal memory.
- Supports HDTV resolutions to 1080p, and up to 1920x1200p (WUXGA).
- Supports Emulation and Learning modes.
 - Emulation mode: provides EDID to the VGA source device from the emulator's internal memory.
 - Supports headless operation – no monitor attached to source.
 - The selectable resolutions are dependent on the computer's graphic card.
 - Only VGA-EDID-EMLTR-LC is necessary for this function.
 - **Learning mode requires EDID-REC-VDH EDID Recorder (sold separately):** store a display's EDID for later use.

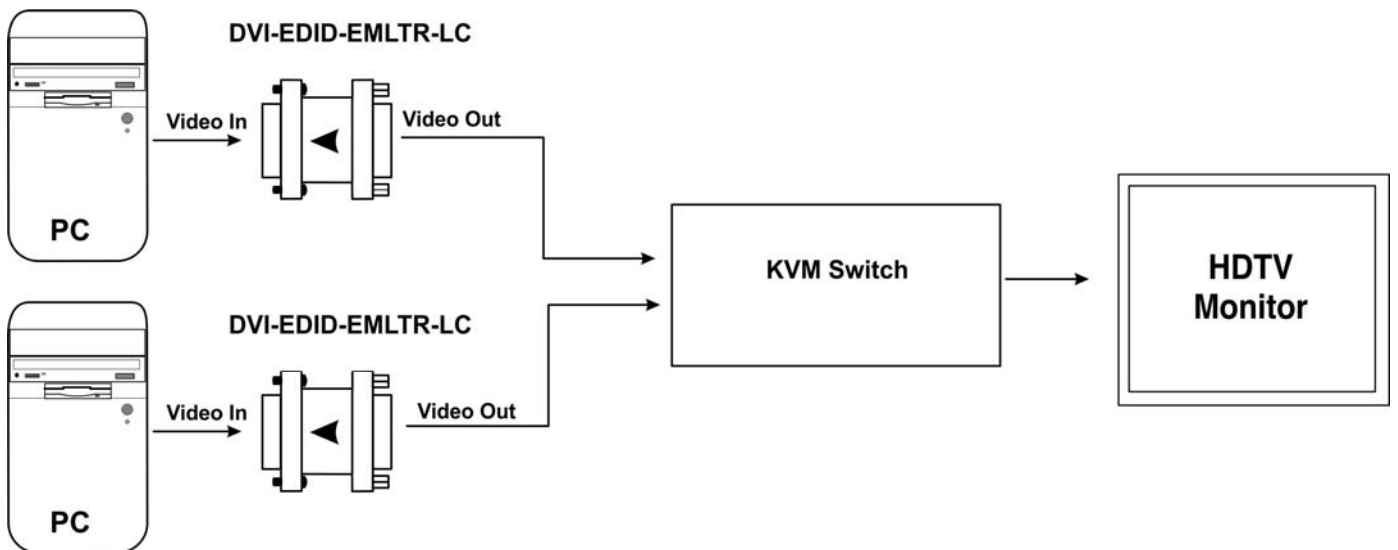
Features-Both

- Pre-programmed with many standard resolutions with native set to 1920x1080@60Hz (for DVI) and 1280x720@60Hz (for VGA) emulator.
 - Requires EDID-REC-VDH EDID Recorder (sold separately) to program other resolutions to the emulator.
 - LED indicators provide signal status information.
- Ideal for resolving signal handshaking problems between a source and a display, and for remote desktop access to a headless computer.
 - Ensures that the EDID is not lost in connections between devices such as switches, splitters, and extenders.

Example for use with an extender:



Example for use with a switch:



EDID Emulators

If you are using the EDID/DDC Emulator Adapters by themselves and require only the default resolutions supported, they may simply be installed as shown in the diagrams previous by connecting the Male interface of the Emulator to the graphics card. The preset values will then be available via your computer's graphics/resolution settings.

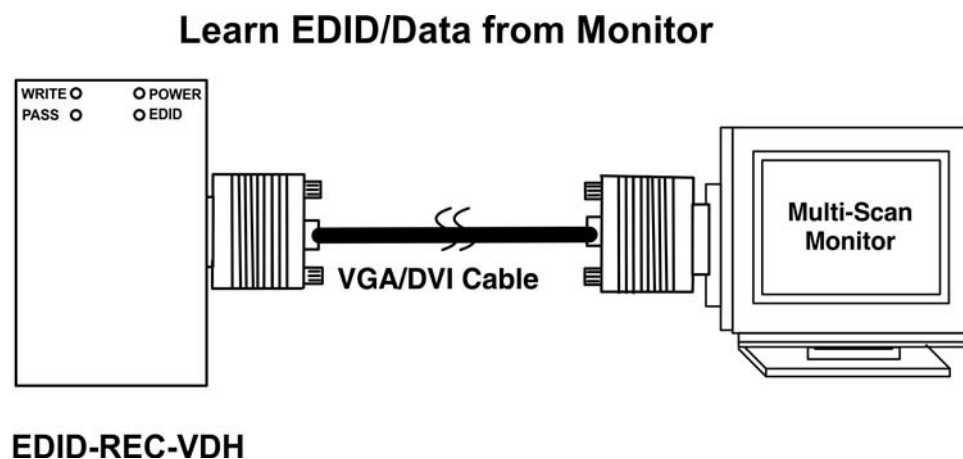
EDID Recorders

If your application requires a resolution supported by your monitor (VGA up to 1920x1200@60Hz, DVI up to 2560x1600@60Hz) but not supported by the Emulator, then an EDID-REC-VDH EDID Recorder will be needed to record the EDID from the monitor and then be able to copy that EDID/DDC data to the Emulator.

Note: The HDMI port on the Recorder is not supported at this time.

Copy EDID to Recorder

1. Please ensure the display is switched OFF before starting the process.
2. Switch the Recorder to Copy
3. To clone the EDID/DDC data of a display you will need to attach the Recorder to your monitor using a VGA or DVI cable. Please ensure the display is now switched ON.
4. Connect the power supply to the DC jack of the Recorder
5. The Power LED will illuminate Blue. This indicates that the Recorder is learning the display's EDID. The Pass LED will then illuminate Green. This indicates that the display's EDID has been learned and stored successfully.
6. Disconnect power from the Recorder.
7. Disconnect the Recorder from the display.

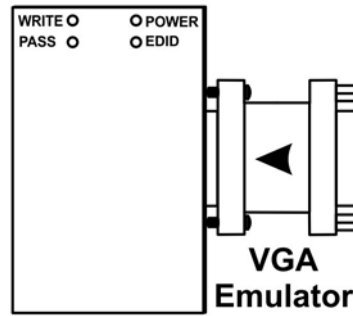


Write EDID to the Emulator

Note: Writing cloned EDID/DDC data to the Emulators will overwrite the pre-set EDID/DDC data in the Emulator.

1. Switch the recorder to Copy
2. Connect the VGA or DVI Emulator to the corresponding port of the Recorder.
3. Connect the power supply to the DC jack of the recorder
4. The Power LED will illuminate Blue followed by the Write LED flashing Green. This indicates the display's EDID is being copied onto the Emulator.
The Write LED will illuminate a solid green followed by the Pass LED flashing Green. This indicates the re-writing of the EDID to the Emulator has been successful.
5. Disconnect power from the Recorder.
6. Disconnect the Emulator from the Recorder.
7. Connect the Emulator to the PC.

Copy learned EDID/Data to Emulator



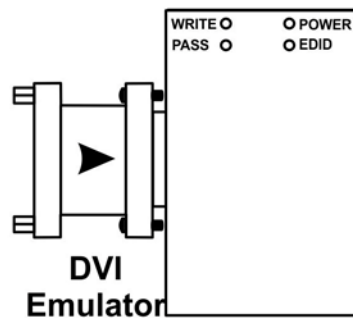
EDID-REC-VDH

Reset to Default EDID

The recorder can also be used to reset the Emulator's to their pre-set default EDID's.

1. Switch the Recorder to EDID
2. Connect the VGA or DVI Emulator to the corresponding port of the Recorder.
3. Connect the power supply to the DC jack of the Recorder
4. The Power LED will illuminate Blue and the EDID LED will illuminate Orange, followed by the Write LED flashing Green. This indicates that the corresponding emulator's default EDID is being rewritten to the Emulator. The Write LED will illuminate a solid Green followed by the Pass LED flashing Green. This indicates the default EDID reset has been successful.

Reset Default EDID/Data to Emulator



EDID-REC-VDH

Specifications

DVI-EDID-EMLTR	
Signal Type	<ul style="list-style-type: none"> • Supports single link and dual link digital DVI. <ul style="list-style-type: none"> ○ Pre-programmed with single link resolutions to 1920x1200. ○ Dual link resolutions up to 2560x1600@60Hz supported – requires EDID-REC-VDH EDID Recorder (sold separately) to program dual link resolutions to the emulator.
Source Connector	DVI-D dual link male
Display Connector	DVI-D dual link female
VGA-EDID-EMLTR	
Signal Type	VGA
Source Connector	HD15 Male
Display Connector	HD15 Female
General (Emulators)	
Resolutions supported (without Recorder)	640x480 @60/67/72/75 Hz 720x400 @70 Hz 800x600 @56/60/72/75 Hz 832x624 @75 Hz 1024x768 @60/70/75 Hz 1152x864 @75 Hz 1152x870 @75 Hz 1280x720 @60 Hz (Default- VGA) 1280x960 @60 Hz 1280x1024 @60/75 Hz 1440x900 @60 Hz 1600x1200 @60 Hz 1680x1050 @60 Hz 1920x1080 @60 Hz (Default- DVI) 1920x1200 @60 Hz
Power	Powered by video source*
Dimensions-DVI (WxDxH)	1.54x2.16x0.59 in (39x55x15 mm)
Dimensions-VGA (WxDxH)	1.31x2.32x0.69 in (33.15x59.00x17.40 mm)
Operating Temperature	32 to 122°F (0 to 50°C).
Regulatory Approvals	CE,FCC,RoHS
EDID-REC-VDH	
Video Connectors	1- DVI-D Dual link female 1- HD15 VGA female
Power	Input: 110 or 220 VAC at 50 or 60 Hz via AC adapter (included) Output: 5VDC, 2A
Maximum Resolution Supported	VGA: up to 1920x1200@60Hz DVI: up to 2560x1600@60Hz
Indicators	LEDs to provide signal status indications
Dimensions (WxDxH)	1.97x2.9x0.88 in (50x74x22 mm)
Regulatory Approvals	CE,FCC,RoHS

* Optional 5V power supply is available (NTI# PS4191-sold separately) for VGA emulators used with laptops that do not provide power to support the emulator