

RE-EDID-4K22

HDMI Full 4K EDID Manager with HDCP Modes & Downscaler

OPERATION MANUAL



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Version 1.1

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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.
- Please completely disconnect the power when the unit is not in use to avoid wasting electricity.

VERSION HISTORY

REV.	DATE	SUMMARY OF CHANGE
v1.00	05/06/2017	First release
v1.01	09/10/2026	Updated cover image & copy

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1. INTRODUCTION

The RE-EDID-4K22 4K EDID Manager manages and manipulates the HDMI/DVI EDID information that a connected display provides to an HDMI source device.

EDID contains critical information about the capabilities of the connected display, including audio and video format support, HDMI feature support, etc. This product aims to simplify the technical complications that often arise when performing video system integration, home cinema installation, integrating commercial displays or audio/video equipment testing. It also supports EDID Emulation and Bypass modes.

The RE-EDID-4K22 4K EDID Manager is perfect for overcoming source and screen compatibility issues, particularly when integrating PCs into an AV system.

2. APPLICATIONS

- HDMI/DVI EDID management
- AV system integration and home theater installation
- AV equipment testing

3. PACKAGE CONTENTS

- 1×HDMI EDID Emulator
- 1×5V/2.6A DC Power Adaptor
- 1×Operation Manual

4. SYSTEM REQUIREMENTS

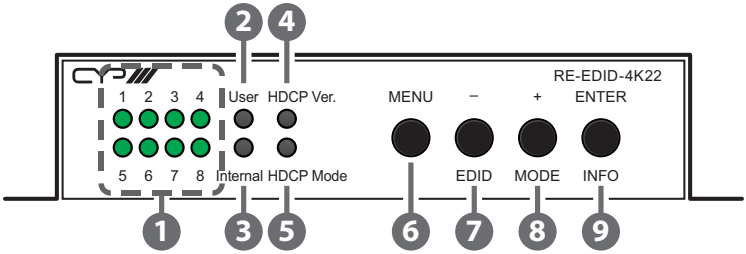
- HDMI source equipment such as media players, video game consoles or set-top boxes.
- HDMI receiving equipment such as HDTVs, monitors or audio amplifiers.
- The use of "Premium High Speed HDMI" cables is highly recommended.

5. FEATURES

- HDMI input and output with 18Gbps (6G) 4K UHD support
- HDCP 1.4 and 2.2 compliant
- Supports HD resolutions up to 3840×2160@60Hz (4:4:4, 8-bit) & 4096×2160@60Hz (4:4:4, 8-bit)
- Supports 48-bit Deep Colour up to 1080p@60Hz
- Supports Four different EDID modes : Read / Write / Emulate / Bypass modes
- Read Mode : Reads the TV/display's EDID information
- Write Mode : Overwrites the TV/display's EDID information (TV/display needs to be able to support overwrite function)
- 8 unique sets of EDID settings may be stored via the learning procedure.
- Emulator Mode : Allows the source device to read the selected EDID information from the unit's default or learnt EDID memory
- Bypass Mode : Allows the source device to read the EDID information from the TV/display directly
- Supports DVI sources when used with a DVI to HDMI adaptor (not supplied)
- Supports CEC functionality

6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



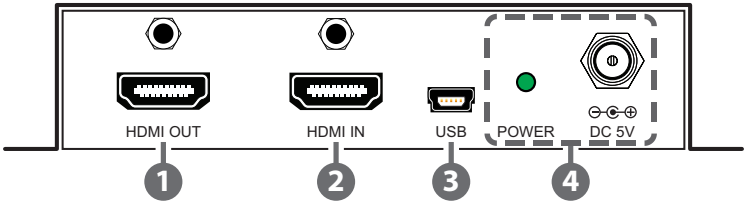
1. **LEDs 1~8:** These LEDs illuminate to indicate which EDID from the currently selected EDID mode is active.
2. **User:** This LED will illuminate when the unit is in User EDID mode.
3. **Internal:** This LED will illuminate when the unit is in Internal EDID mode.

   Note: When both the User and Internal LEDs are lit, the unit's EDID is in External bypass mode.
4. **HDCP Ver.:** This LED illuminates to indicate the HDCP version used by the connected source. A red LED indicates that the source is using HDCP v1.x (1.0~1.4). A green LED indicates that the source is using HDCP v2.2. When the LED is not illuminated it indicates that the source does not require, or use, HDCP.
5. **HDCP Mode:** This LED illuminates to indicate the current HDCP management mode selected for the HDMI input port. A red LED indicates "Follow In" mode, and the unit will enforce HDCP based on the requirements of the connected source. A green LED indicates "Follow Out" mode, and the unit will enforce HDCP based on the capability of the connected display. An un-lit LED indicates that HDCP support has been completely disabled.
6. **MENU:** Press to enter the OSD menu, or to back out from menu items.

   Note: Press and hold the menu button for 3 seconds to reset the unit to factory defaults.
7. **-/EDID:** Press to move down or adjust selections within OSD menus. While not in a menu, press this button to sequentially switch through the available EDIDs from 1 to 8.

8. **+/MODE:** Press to move up or adjust selections within OSD menus. While not in a menu, press this button to sequentially switch through the available EDID modes (User, Internal and External bypass).
9. **ENTER/INFO:** Press to confirm a selection within the OSD or to go deeper into a menu item. While not in a menu, press this button to display basic information about the currently connected source on the OSD. When nothing is connected to the HDMI output, pressing this button switches the HDCP management mode between "Follow In", "Follow Out" and "Apple Mode".

6.2 Rear Panel



1. **HDMI OUT:** Connect to HDMI TVs, monitors or amplifiers for digital video and audio output. If there is no valid HDMI source the output will display a blue screen.
2. **HDMI IN:** Connect to HDMI source equipment such as a media player, game console or set-top box. DVI sources are supported with the use of an HDMI to DVI adapter.

   Note: 4K UHD sources with HDR or equivalently high-bandwidth signals require an appropriate compatible display and HDMI cables in order to achieve the best image quality. The use of "Premium High Speed HDMI" cables is highly recommended.
3. **USB:** This slot is used for PC software control, EDID upload and firmware updates (see section 6.4).
4. **POWER LED & DC 5V:** Plug the 5V DC power adapter into the unit and connect it to an AC wall outlet for power. The LED will illuminate to indicate the unit is on and receiving power.

6.3 OSD Menu

LEVEL 1	LEVEL 2	LEVEL 3
EDID MANAGER	EDID MODE	**INTERNAL**
		USER
		EXTERNAL
	EDID SELECT (Internal EDIDs)	**1: 1080p@60/8/RGB/LPCM**
		2: 4K2K@30/8/RGB/LPCM
		3: 4K2K@30/8/YUV/Bitstream
		4: 4K2K@30/12/RGB/HDR/LPCM
		5: 4K2K@30/12/YUV/HDR/Bitstream
		6: 4K2K@60_Y420/8/LPCM
		7: 4K2K@60_Y420/8/Bitstream
		8: 4K2K@60/8/RGB/LPCM
	COPY TV EDID (User EDIDs)	1: DVI/1920×1080p@60/STD/Emulator
		2: 2560×1440p@59/STD/Emulator
		3: 2560×1600p@59/STD/Emulator
		4: 3840×2160p@60/STD/Emulator
		5: 3840×2160p@30/STD/Star
		6: 3840×2160p@60/STD/Lucky
		7: 1920×1080P@60/STD/Sunny
		8: 3840×2160p@60/STD/Sonic
	PROGRAM EDID TO TV	INTERNAL 1~8 **(INTERNAL 1)**
		USER 1~8
OUTPUT SETTING	UHD TO 1080P	**BYPASS**
		FIXED
HDCP SETTING	APPLE MODE	
	FOLLOW IN	
	FOLLOW OUT	

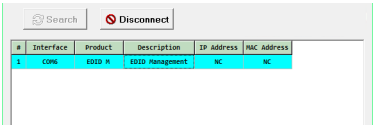
LEVEL 1	LEVEL 2	LEVEL 3
OSD SETTING	DISPLAY INFORMATION	**ON**
		OFF
	OSD TIMEOUT	OFF
		5~40 SEC **(10 SEC)**
INFORMATION	RESOLUTION	
	HDCP MODE	
	HDCP OUTPUT	
	HDMI IN +5V	
	EDID MODE	
	FIRMWARE	
	SINK INFO.	
FACTORY SETTING	YES	
	NO	

*Note: Values in **Bold** are factory default settings.*

6.4 EDID Management

This unit uses an EDID Management application which allows the user to copy the EDID from an attached display, edit an existing EDID file stored on the PC or create a basic EDID from scratch. The EDID can then be uploaded to the unit for use. Please obtain the EDID Management software from your authorized dealer and save it in a directory where you can easily find it.

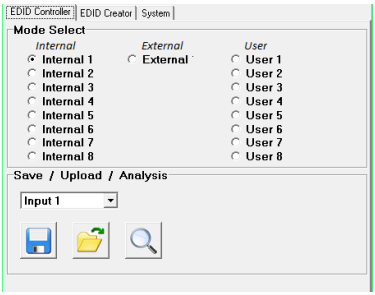
Before connecting the unit to your PC, please install the appropriate Virtual COM Port Driver depending on your Windows version. Next, install the EDID Management software. After the installation has successfully completed an icon for it will appear on the windows desktop. Launch the software by double-clicking on the icon and the EDID Management device detection window will open up on your screen.



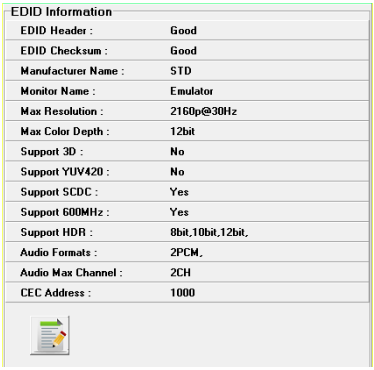
After launching the software, power the unit on and then connect it to the PC/laptop using a USB cable. Click on the "Search" button and any detected units will be displayed in the list. Clicking on a detected unit will open the EDID Commander window.

6.4.1 EDID Controller

Mode Select: Under the "EDID Controller" tab the user may select the EDID to be sent to the connected HDMI source from 8 Internal, 1 External (bypass) or 8 User EDID options. When selected, the LED lights on the unit will change accordingly.



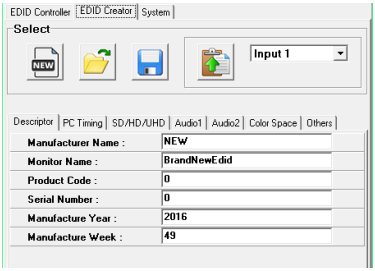
Save/Upload/Analysis: EDIDs may also be saved, uploaded or analyzed.



- Any EDID from the unit or a connected HDMI display can be saved to your PC as a *.bin file by selecting the EDID source from the drop-down menu and then clicking the "Save" icon.
- Previously saved EDID files (*.bin format) can be re-uploaded into any of the "User" EDID slots by selecting the User EDID to replace from the dropdown and then clicking the "Upload" icon. Before accepting the upload, the software will check and verify that the EDID's header and checksum values are acceptable.
- To analyze any EDID stored within the unit, select the EDID to view from the dropdown and click on the "Analysis" icon. From the Analyzer window it is possible to open the currently analyzed EDID in the "EDID Creator" by clicking the "Edit" button.

6.4.2 EDID Creator

Click on the "EDID Creator" tab to begin designing a new EDID from scratch (select the "New" icon), to modify an existing EDID stored on the PC as a *.bin file (select the "Load" icon) or to edit an EDID copied from the unit via the EDID Analyzer's edit option. Selecting "New" will automatically populate the various EDID fields with basic information that can be easily edited to match the user's preferences. Clicking on the "Load" icon will open a file load window and after the *.bin file has been selected and loaded the EDID fields will be populated with the information from that file. The same will happen when the EDID is copied from the "EDID Analyzer" window.



The following tabs provide access to a wide range of EDID information which can be edited:

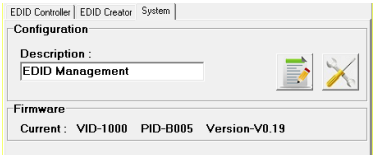
- **Descriptor:** This tab allows for the editing of various description and information fields within the EDID file such as Manufacturer Name, Monitor Name, etc.
- **PC Timing & SD/HD/UHD:** These tabs allow for the selection of the resolutions and refresh rates that the EDID will report as supported.
- **Audio1 & Audio2:** These tabs allow for the selection of which audio formats, audio frequencies, channels and speaker locations are supported.
- **Color Space:** This tab allows for the selection of which color formats and bit depths are supported, including BT.2020 and HDR support options.
- **Others:** This tab contains options for supporting 3D and defining the CEC Address.

Once the user is finished editing or creating an EDID it can be saved to

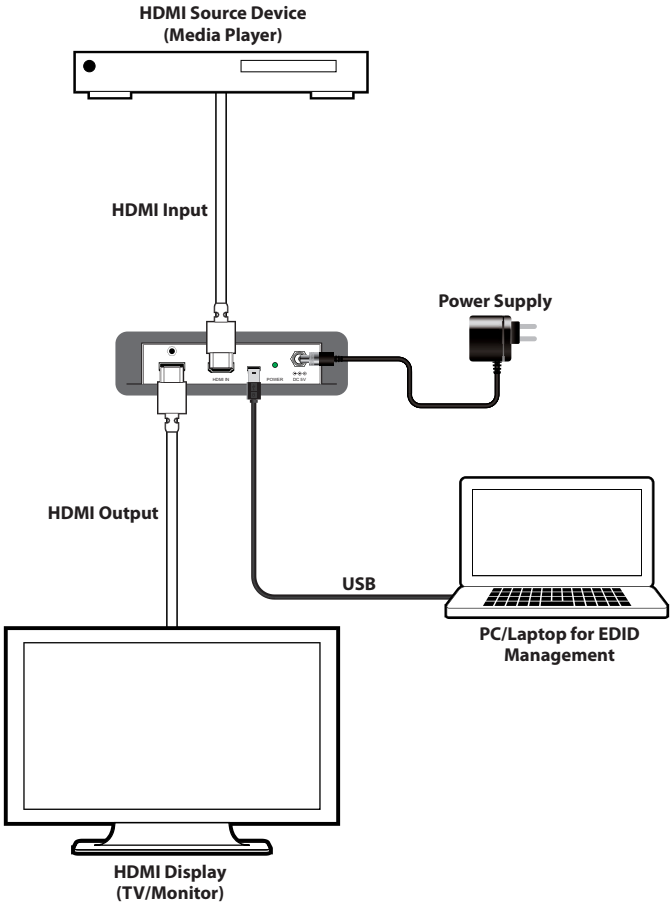
a *.bin file locally or uploaded directly to the unit using the "Save" and "Upload" icons respectively.

6.4.3 System

Select the "System" tab to edit the software's description, to reset the unit to factory defaults and to view the unit's current hardware and firmware version information.



7. CONNECTION DIAGRAM



8. SPECIFICATIONS

8.1 Technical Specifications

Video Bandwidth	600MHz/18Gbps
Input Ports	1×HDMI
Output Ports	1×HDMI
Control Interface	1×USB Mini-B
Supported Resolutions	408i@60Hz - 4K@60Hz (4:4:4, 8-bit) VGA@60Hz - WUXGA@60Hz (RB)
HDMI Cable Length	10m (1080p@60Hz, 12-bit) 3m (4K@60Hz, 4:4:4, 8-bit)
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human Body Model: ±12kV (Air Discharge) ±8kV (Contact Discharge)
Dimensions	110mm×25mm×75mm (W×H×D) [Case Only] 128mm×25mm×83mm (W×H×D) [All Inclusive]
Weight	268g
Chassis Material	Metal
Silkscreen Colour	Black
Operating Temperature	0˚C - 40˚C/32˚F - 104˚F
Storage Temperature	–20˚C - 60˚C/–4˚F - 140˚F
Relative Humidity	20 - 90% RH (No-condensing)
Power Consumption	2.8W

8.2 Video Specifications

Supported Resolutions (Hz)	Input	Output
640×480@60/72/75/85	✓	✓
720×480@60	✓	✓
720×576@50	✓	✓
800×600@56/60/72/75/85	✓	✓
1024×768@60/75/85	✓	✓
1280×720@50/60	✓	✓
1280×768@60/70/75/85	✓	✓
1280×800@60	✓	✓
1280×1024@60	✓	✓
1360×768@60	✓	✓
1600×1200@60	✓	✓
1920×1080i@50/60	✓	✓
1920×1080p@24/25/30/50/60	✓	✓
1920×1200@60 (RB)	✓	✓
2560×1440p@59	✓	✓
2560×1600p@59	✓	✓
3840×2160@24/25/30/50/60	✓	✓
3840×2160@50/60 (YUV 4:2:0)	✓	✓
4096×2160@24/25/30/50/60	✓	✓
4096×2160@50/60 (YUV 4:2:0)	✓	✓

9. ACRONYMS

ACRONYM	COMPLETE TERM
DVI	Digital Visual Interface
EDID	Extended Display Identification Data
HD	High-Definition
HDCP	High-bandwidth Digital Content Protection
HDMI	High-Definition Multimedia Interface
PC	Personal Computer
SD	Standard-Definition
UHD	Ultra High-Definition
USB	Universal Serial Bus

CYP (UK) Ltd., Unit 7, Shepperton Business Park, Govett Avenue,
Shepperton, Middlesex, TW17 8BA
Tel: +44 (0) 20 3137 9180 | Email: sales@cypeurope.com
www.cypeurope.com
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