

# EDID Emulator and Copier for HDMI Displays

VSEDIDHD



\*actual product may vary from photos

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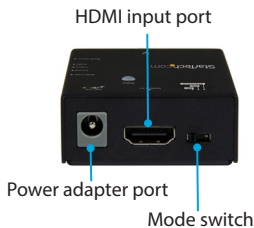
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# Product diagram

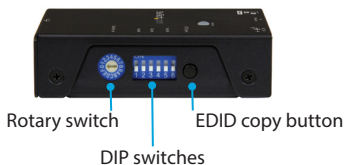
## Front view



## Rear view



## Side view



# Introduction

When a video source is connected to a display, EDID information is shared between devices to ensure video and audio performance is aligned.

However, if you are using a third party device, such as a video extender, between your source and display, the EDID information may not pass through correctly.

This EDID Emulator and Copier lets you clone or emulate the EDID settings from your display and deliver it to your video source to ensure proper signaling between your devices.

## Package contents

- 1 x EDID emulator
- 1 x USB power cable
- 1 x screwdriver
- 4 x foot pads
- 1 x quick-start guide

## Requirements

- An HDMI display device.
- An HDMI video source device.
- A USB port (power).
- Two HDMI cables (for the display device and video source device).

# Mode switch

The **Mode switch** on this EDID Emulator and Copier lets you set the operation mode depending upon your application. Reference the glossaries below to determine the best mode for your application.

## PC mode

PC mode lets you copy EDID settings from your display for use with a computer system and/or emulate EDID settings for use with your computer that are commonly supported by most computers and in the performance range of your display.

## AV mode

AV mode lets you copy EDID settings from your display for use with consumer electronics devices (such Blu-ray™ or DVD players) and/or emulate EDID settings that are commonly supported by most consumer electronics devices, and in the performance range of your display.

## Memory mode

Memory mode lets you copy and store up to 15 EDID settings from different displays and then choose between which is outputted to your video source.

# Rotary switch

The **Rotary switch** on this EDID Emulator and Copier is used to define different settings depending upon the mode the EDID Emulator and Copier is set to. It may be necessary to review the tables below to determine what settings are ideal for your application.

Notes:

- **AUTO** programs the EDID Emulator and Copier for a direct EDID copy from the device it's connected to.
- **MANUAL** programs the EDID Emulator and Copier for a combination of copied EDID and emulated EDID programming that's done using the **DIP switches**.
- All refresh rates are 60Hz.

PC (DVI) mode		PC (HDMI) mode		Memory mode	
Position	Resolution	Position	Resolution	Position	Presets
0	AUTO	0	AUTO	0	Preset 1
1	MANUAL	1	MANUAL	1	Preset 2
2	1024x768	2	1024x768	2	Preset 3
3	1280x720	3	1280x720	3	Preset 4
4	1280x1024	4	1280x1024	4	Preset 5
5	1366x768	5	1366x768	5	Preset 6
6	1440x900	6	1440x900	6	Preset 7
7	1600x900	7	1600x900	7	Preset 8
8	1600x1200	8	1600x1200	8	Preset 9
9	1680x1050	9	1680x1050	9	Preset 10
A	1920x1080	A	1920x1080	A	Preset 11
B	1920x1200	B	1920x1200	B	Preset 12
C	1280x800	C	1280x800	C	Preset 13
D	2048x1152	D	2048x1152	D	Preset 14
E	--	E	720x480	E	Preset 15
F	--	F	720x576	F	--

AV mode enables the EDID Emulator and Copier to work with consumer electronics equipment. Even if your equipment doesn't support the exact resolution that's specified by the rotary dial, each setting supports a range of resolutions and refresh rates. The table below lists resolutions and refresh rates that are still supported by each setting.

AV mode					
Position	Resolution	Frame Rate: 50 Hz		Frame Rate: 60 Hz	
		Interlaced	Progressive	Interlaced	Progressive
0	AUTO	Automatically record the connected display's EDID (ignoring all dip switches)			
1	MANUAL	Combines copied EDID with using dip switches 1~4 (ignoring DIP switches 5~6)			
2	1024 x 768	576i@50Hz 640x480p@60Hz	576p@50Hz 640x480p@60Hz	480i@60Hz 640x480p@60Hz	480p@60Hz 640x480p@60Hz
3	1280 x 720				
4	1280 x 1024				
5	1366 x 768	720p@50Hz 720p@24Hz	720p@50Hz 720p@24Hz	720p@50Hz 720p@24Hz	720p@60Hz 720p@24Hz
6	1440 x 900	576i@50Hz	576p@50Hz	480i@60Hz	480p@60Hz
7	1600 x 900	640x480p@60Hz	640x480p@60Hz	640x480p@60Hz	640x480p@60Hz
8	1600 x 1200				
9	1680 x 1050				
A	1920 x 1080	1080i@50Hz	1080i@60Hz	1080i@60Hz	1080p@60Hz
B	1920 x 1200	1080p@24Hz	1080p@24Hz	1080p@24Hz	1080p@24Hz
		720p@50Hz	720p@60Hz	720p@60Hz	720p@60Hz
		720p@24Hz	720p@24Hz	720p@24Hz	720p@24Hz
		576i@50Hz 640x480p@60Hz	480i@60Hz 640x480p@60Hz	480i@60Hz 640x480p@60Hz	480p@60Hz 640x480p@60Hz
C	1024 x 768	576i@50Hz 640x480p@60Hz	576p@50Hz 640x480p@60Hz	480i@60Hz 640x480p@60Hz	480p@60Hz 640x480p@60Hz
D	2048 x 1152	1080i@50Hz	1080p@50Hz	1080i@60Hz	1080p@60Hz
		1080p@24Hz	1080p@24Hz	1080p@24Hz	1080p@24Hz
		720p@50Hz	720p@50Hz	720p@60Hz	720p@60Hz
		720p@24Hz	720p@24Hz	720p@24Hz	720p@24Hz
		576i@50Hz 640x480p@60Hz	576p@50Hz 640x480p@60Hz	480i@60Hz 640x480p@60Hz	480p@60Hz 640x480p@60Hz
E	720 x 480	480i@50Hz	480p@50Hz	480i@60Hz	480p@60Hz
		640x480p@60Hz	640x480p@60Hz	640x480p@60Hz	640x480p@60Hz
F	720 x 576	576i@50Hz	576p@50Hz	480i@60Hz	480p@60Hz
		640x480p@60Hz	640x480p@60Hz	640x480p@60Hz	640x480p@60Hz

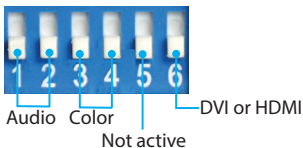


# DIP switches

The DIP switches on this EDID Emulator and Copier enable you to define different settings. The mode your EDID Emulator and Copier is set to changes how the DIP switches work as can the dip switches in relation to each other. It may be necessary to review the information below to determine what settings are ideal for your application.

## PC mode (HDMI)

**Dip switch 6 on (down)**



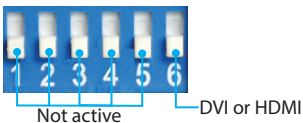
Audio		
1	2	Setting
ON	ON	Use copied
ON	OFF	7.1 CH
OFF	ON	5.1 CH
OFF	OFF	2 CH

Color		
3	4	Setting
ON	ON	Use copied
ON	OFF	RGB
OFF	ON	YCbCr
OFF	OFF	Deep color

DVI or HDMI	
6	Setting
ON	DVI mode
OFF	HDMI

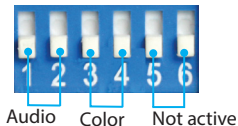
## PC mode (DVI)

**DIP switch 6 on (up)**



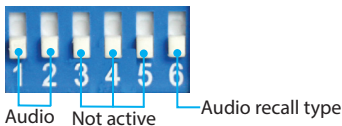
DVI or HDMI	
6	Setting
ON	DVI mode
OFF	HDMI

## AV mode



Audio			Color			Scanning		Refresh rate	
1	2	Setting	3	4	Setting	5	Setting	6	Setting
ON	ON	Use copied	ON	ON	Use copied	ON	Interlaced	ON	50 Hz
ON	OFF	7.1 CH	ON	OFF	RGB	OFF	Progressive	OFF	60 Hz
OFF	ON	5.1 CH	OFF	ON	YCbCr				
OFF	OFF	2 CH	OFF	OFF	Deep color				

## Memory mode



Audio			Audio recall type	
1	2	Setting	6	Setting
ON	ON	Combine the video EDID from your rotary dial selection with the audio EDID on inventory 0	ON	Use different audio EDID from Audio inventory 0, 1, 2 or 3
ON	OFF	Combine the video EDID from your rotary dial selection with the audio EDID on inventory 1	OFF	Use audio and video EDID saved to the same rotary switch setting
OFF	ON	Combine the video EDID from your rotary dial selection with the audio EDID on inventory 2		
OFF	OFF	Combine the video EDID from your rotary dial selection with the audio EDID on inventory 3		

# Operation

## EDID copying

**Use PC mode to copy (clone) the EDID settings from your display for use with a computer.**

1. Set the **Mode switch** on the EDID Copier to **PC mode**.
2. Use the included screw driver to set the **Rotary dial** on the EDID Copier to position **0 or 1**.
3. If your video source is HDMI, use the included screw driver to set **DIP switch 6** in the **OFF** position (down).  
or  
If your video source is DVI (using an HDMI adapter), use the included screw driver to set **DIP switch 6** to the **ON** position (up).
4. Set the remaining **DIP switches** to your desired setting based on the requirements for your application (see Dip switches section, page 6).
5. Connect the included USB power cable to the **Power port** on the EDID Copier and to a USB power source.
6. Connect an HDMI cable (not included) to your display device and to the **HDMI output port** on the EDID Copier.
7. Press and hold the **EDID copy** button on the EDID Copier until the **Status LED** starts to flash green. When you release the **EDID copy** button, the **Status LED** will then flash green and red alternately, indicating that the EDID Copier is actively copying the display's EDID settings. The LED will then light blue, indicating that the EDID copy process has successfully completed.
8. Disconnect the EDID Copier from your display and reconnect your display to the video output on the third-party equipment that is causing the disruption.
9. Connect an HDMI cable (not included) to your video source and to the **HDMI input port** on the EDID emulator.
10. Connect an HDMI cable (not included) to the EDID emulator's **HDMI output port** and to the video input port on the third-party equipment that is causing the disruption.
11. Verify the signal has been corrected by viewing your display.

## Use AV mode to copy (clone) the EDID settings from your display for use with a consumer electronics device.

1. Set the **Mode switch** on the EDID Copier to **AV mode**.
2. Use the included screw driver to set the **Rotary dial** on the EDID Copier to position **0** or **1**, based on the requirements for your application (see the AV mode table in the Rotary dial section, page 5).
3. Set the **DIP switches** to your desired setting based on the requirements for your application (see Dip switches section, page 6).
4. Connect the USB power cable to the **Power port** on the EDID Copier and to a USB power source.
5. Connect an HDMI cable (not included) to your display device and to the **HDMI output port** on the EDID Copier.
6. Press and hold the **EDID copy** button on the EDID Copier until the **Status LED** starts to flash green. When you release the **EDID copy** button, the **Status LED** will then flash green and red alternately, indicating that the EDID Copier is actively copying the display's EDID settings. The LED will then light blue, indicating that the EDID copy process has successfully completed.
7. Disconnect the EDID Copier from your display and reconnect your display to the video output on the third-party equipment that is causing the disruption.
8. Connect an HDMI cable (not included) to your video source and to the **HDMI input port** on the EDID Copier.
9. Connect an HDMI cable (not included) to the EDID Copier's **HDMI output port** and to the video input port on the third-party equipment that is causing the disruption.
10. Verify the signal has been corrected by viewing your display.

## Use Memory mode to copy (clone) and store the EDID settings from up to 15 displays.

1. Set the Mode switch on the EDID Copier to **Memory mode**.
2. Use the included screw driver to set the **Rotary dial** on the EDID Copier to position that you'd like to store the EDID information to (see Rotary dial section, page 5).
3. Set the **Dip switches** to your desired setting based on the requirements for your application (see Dip switches section, page 6).
4. Connect the USB power cable to the **Power port** on the EDID Copier and to a USB power source.
5. Connect an HDMI cable (not included) to your display device and to the **HDMI output port** on the EDID Copier.

6. Press and hold the **EDID copy** button on the EDID Copier until the **Status LED** starts to flash green. When you release the **EDID copy** button, the **Status LED** will then flash green and red alternately, indicating that the EDID Copier is actively copying the display's EDID settings. The LED will then light blue, indicating that the EDID copy process has successfully completed.

### Use Memory mode to output copied EDID settings.

1. Set the **Mode switch** on the EDID Copier to **Memory mode**.
2. Set the **Rotary dial** on the EDID Copier to the setting where you've saved the EDID that you'd like to output.
3. Set the **DIP switches** to your desired setting based on the requirements for your application (see Dip switches section, page 6).
4. Connect an HDMI cable (not included) to your video source and to the **HDMI input port** on the EDID Copier.
5. Connect an HDMI cable (not included) to the EDID Copier's **HDMI output port** and to the video input port on the third-party equipment that is causing the disruption.
6. Verify the signal has been corrected by viewing your display.

## EDID emulating

### Use PC mode to emulate the EDID settings for your display connected to a computer.

1. Set the **Mode switch** on the EDID Emulator to **PC mode**.
2. Use the included screw driver to set the **Rotary dial** on the EDID Emulator to the position that corresponds with your desired resolution (see the PC mode tables in the Rotary dial section, page 4).  
**Note:** Positions **0** and **1** are used for EDID copying applications (see the PC section of EDID copying, page 8).
3. If your video source is HDMI, use the included screw driver to set **DIP switch 6** in the **OFF** position (down).  
or  
If your video source is DVI (using an HDMI adapter), use the included screw driver to set **DIP switch 6** to the **ON** position (up) and proceed to step 6.
4. If your video source is HDMI you can set the audio EDID to your desired setting.

If you'd like to emulate your EDID to support 7.1-channel sound, set **DIP switch 1** to the **ON** position (up) and **DIP switch 2** to the **OFF** position (down).

or

If you'd like to emulate your EDID to support 5.1-channel sound, set **DIP switch 1** to the **OFF** position (down) and **DIP switch 2** to the **ON** position (up).

or

If you'd like to emulate your EDID to support 2-channel sound, set **DIP switch 1** and **2** to the **OFF** (down) position.

5. If your video source is HDMI you can set the color EDID to your desired setting.

If you'd like to emulate your EDID to support RGB color only, set **DIP switch 3** to the **ON** position (up) and **DIP switch 2** to the **OFF** position (down).

or

If you'd like to emulate your EDID to support YCbCr, set **DIP switch 3** to the **OFF** position (down) and **DIP switch 4** to the **ON** position (up).

or

If you'd like to emulate your EDID to support Deep Color, set **DIP switches 3** and **4** to the **OFF** position (down).

6. Connect an HDMI cable (not included) to your video source and to the **HDMI input port** on the EDID emulator.
7. Connect an HDMI cable (not included) to the EDID emulator's **HDMI output port** and to the video input port on the third-party equipment that is causing the disruption.
8. Verify the signal has been corrected by viewing your display.

### **Use AV mode to emulate the EDID settings for your display that's connected to a consumer electronics device.**

1. Set the **Mode switch** on the EDID emulator to **AV mode**.
2. Use the included screw driver to set the **Rotary dial** on the EDID Emulator to the position that corresponds with your desired resolution (see the PC mode tables in the Rotary dial section, page 4).  
**Note:** Positions **0** and **1** are used for EDID copying applications (see the AV section of EDID copying, page 9).
3. Connect an HDMI cable (not included) to your video source and to the **HDMI input port** on the EDID emulator.
4. Connect an HDMI cable (not included) to the EDID emulator's **HDMI output port** and to the video input port on the third-party equipment that is causing the disruption.
5. Verify the signal has been corrected by viewing your display.

or  
If you'd like to emulate your EDID to support Deep Color, set **DIP switches 3** and **4** to the OFF position (down).

5. Connect an HDMI cable (not included) to your video source and to the **HDMI input port** on the EDID emulator.
6. Connect an HDMI cable (not included) to the EDID emulator's **HDMI output port** and to the video input port on the third-party equipment that is causing the disruption.
7. Verify the signal has been corrected by viewing your display.

## About the LED indicators

The EDID Copier and Emulator has an **Status LED** that's located on the top of the device. See the table below for information about what the LED behavior signifies.

Status LED behavior	Signifies
LED is illuminated solid blue.	The EDID Copier and Emulator is powered on and in AV or Memory mode.
LED is illuminated blue, occasionally flashing green 3 times.	The EDID Copier and Emulator is powered on and operating normally in PC mode. The device is configured for use with an HDMI display.
LED is illuminated solid blue, occasionally flashing green 2 times.	The EDID Copier and Emulator is powered on and operating normally in PC mode. The device is configured for use with a DVI display.
LED is illuminated solid green.	The EDID copy button is pressed in.
LED flashes green.	The EDID Copier and Emulator is ready to copy EDID.
LED flashes green and red alternately.	The EDID Copier and Emulator is actively copying EDID.

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