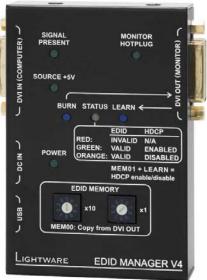
#### Highlight features

- Advanced EDID Management with 100 EDID memories
- HDCP enable and disable function
- Fixes EDID and keeps the source's output continuously active
- USB control user programmable resolutions

Lightware EDID Manager V4 is an HDMI/DVI EDID emulator and repeater that can store 100 EDIDs. It emulates and keeps a fixed EDID for the source. Thanks to our **Advanced EDID Management**, the device can trick the DVI source (PC computer, laptop, etc.) by emulating any DVI display (LCD monitor, projector) for continuous video



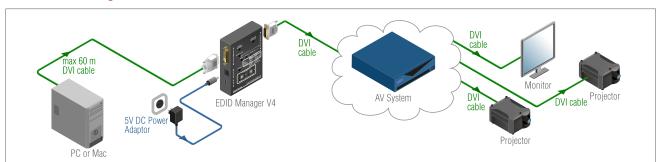
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output - even if the AV system is disconnected or powered down. In emulating an EDID, the user can set up any DVI or HDMI output resolution, regardless of the used projector or monitor. This ensures that the overall system resolution can be controlled. EDID memories 01 to 49 are factory preset and memories 51 to 79 are user programmable. Memory 00 is transparent which means that the attached display device's EDID (monitor or projector) will be reported back to the source. In this mode the unit works as a simple repeater. The EDID Manager automatically compensates for up to 60 meters of DVI copper cable at 22AWG.

**HDCP enable/disable function** turns off the unit s HDCP capability. Some computers choose to encrypt their output even when non-protected content is displayed, such as desktop images or presentations. This function forces the source to send an unencrypted signal if the content itself is also unprotected. It therefore helps technicians to integrate such laptops into a non-HDCP AV environment.

With the **Easy EDID Creator** (PC software) the users can create their own EDID by completing four simple steps. More experienced users can use the **Advanced EDID Editor software** to manage every possible setting in the EDID, which they can upload to the memory of the EDID Manager.



### Stand alone diagram

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## **Applications**

- Rental and staging
- Post production studios
- Control room
- Digital Signage
- Multiroom video
- Conference rooms, collaborative telepresence

### **Features**

- HDCP compliant
- HDCP enable/disable function
- 80 EDID memories 29 of them user programmable
- Up to 60 meters cable loss compensation at Input
- Keeps source's HDMI or DVI output continuously active
- Signal detection, source detection and monitor detection LEDs
- USB control
- Locking DC connector

# **Specifications**

Video bandwidth:	2.25 Gbps
Resolution:	any DVI Single-Link
Input cable equalization:	Automatic adaptive, +40 dB max
EDID memory:	100 EDID
Programmable EDID memory:	49 EDID
EDID support:	256 byte Extended EDID
HDCP pass through:	yes
Power:	universal power adaptor, DC 5V 2.5 A
Power: Power consumption:	universal power adaptor, DC 5V 2.5 A 1.4 W (typ) 2 W (max)
Power consumption:	1.4 W (typ) 2 W (max)
Power consumption: Enclosure:	1.4 W (typ) 2 W (max) 2 mm metal
Power consumption: Enclosure: Dimensions:	1.4 W (typ) 2 W (max) 2 mm metal 102.4 W x 70.6 D x 27 H mm
Power consumption: Enclosure: Dimensions: Weight:	1.4 W (typ) 2 W (max) 2 mm metal 102.4 W x 70.6 D x 27 H mm 225 g

### Connectors

Input / Output:	29 pole DVI-D connector (digital only)
USB:	mini USB-B female connector
Power:	locking DC connector (2.5 / 5.5 mm)

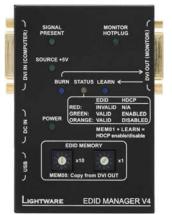
# Locking DC plug





Twist 90° clockwise to lock

### Front and rear view





### Supplied accessory



**Universal DC adaptor** Wall power adaptor with interchangeable plug for international use. Universal input: 100-240 V AC, 50-60 Hz Output: 5 V DC, 2.5 A

# **Optional accessory**



**Under desk mounting kit** The UD-kit makes it easy to mount a single device on any flat surface (e.g. furniture).



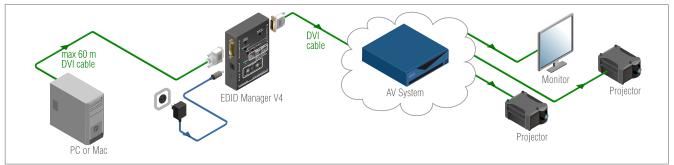
# Using EDID Manager V4 step by step

The EDID Manager V4 is a tool for system integrators and installers to guarantee a constant output and a fixed resolution from the source.

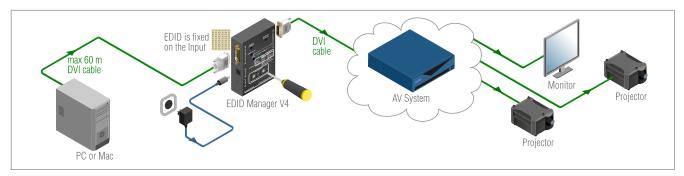
EDID, 'The Passport of the display provides information for the source about a display's capabilities. In larger and more complex systems, the communication can be disrupted causing loss of signal and, with multiple resolution displays and sources, invalid transmissions can be sent to certain displays. The EDID Manager V4 gives you control of your system and prevents these issues.

MEM	Resolution	MEM	Resolution
01	640x480@60	26	1600x1200@50
02	640x480@75	27	1600x1200@60
03	848x480@60	28	1920x1200@60
04	800x600@50	29	1920x1200@50
05	800x600@60	30	480i@59.94
06	800x600@75	31	640x480p@59.94
07	1024x768@50	32	720x480p@59.94
80	1024x768@60	33	576i@50
09	1024x768@75	34	720x576p@50
10	1152x864@75	35	1280x720p@50
11	1280x768@50	36	1280x720p@60
12	1280x768@60	37	1920x1080i 1@50
13	1280x768@75	38	1920x1080i 2@50
14	1360x768@60	39	1920x1080i@60
15	1364x768@50	40	1920x1080p@24
16	1364x768@60	41	1920x1080p@25
17	1364x768@75	42	1920x1080p@30
18	1280x1024@50	43	1920x1080p 1@50
19	1280x1024@60	44	1920x1080p 2@50
20	1280x1024@75	45	1920x1080p260
21	1366x1024@60	46	2048x1080p 1@50
22	1400x1050@50	47	2048x1080p 2@50
23	1400x1050@60	48	2048x1080p@60
24	1400x1050@75	49	UNIVERSAL EDID
25	1680x1050@60	00	Copy from DVI ou
6	+ 5V DC 1A		. 🗑
Sn:		C	E ROHS
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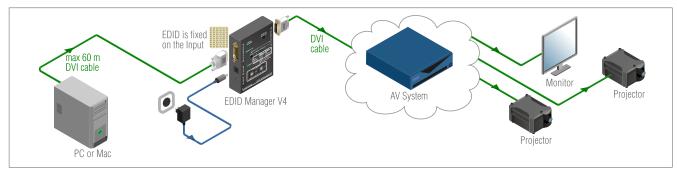
#### How to operate it?



Step 1: Simply put the EDID Manager V4 in line directly after your source and before your AV system.



Step 2: Set and fix your chosen EDID/resolution using our simple rotary switches.

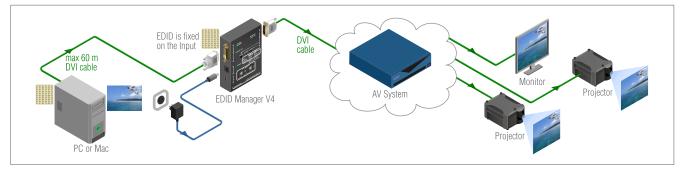


Step 3: Power on your source.

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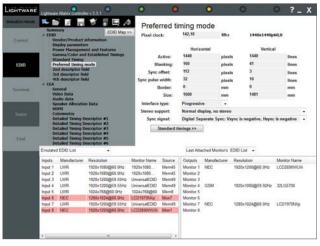




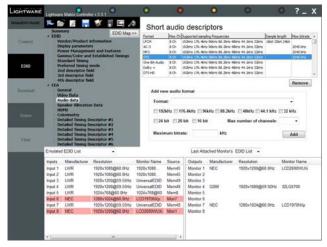
Step 4: The EDID Manager V4 fixes EDID and keeps PC output continuously live.

## Advanced EDID Editor software

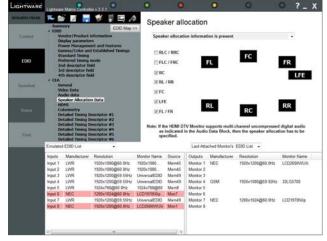
Experienced users can use the <u>Advanced EDID Editor software</u> in the Lightware Matrix Controller software to manage every possible setting in the EDID, which they can upload to the memory of the EDID Manager V4.



Users can create custom pixel resolution and aspect ratio video signals for example 1440x1440, used in video wall applications.



EDID Manager V4 handles 256 byte E-EDID and CEA formats as well as 128 byte EDID.



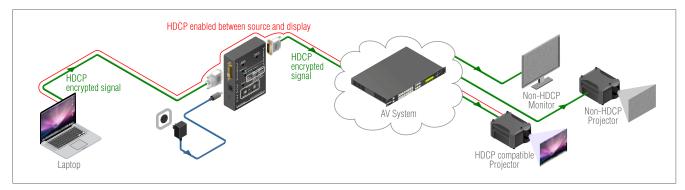
In HDMI system, users can define the speakers and audio channels.

LIGHTWARE	Lightwar	e Metrix C	entroller v 3.3.1	0		0		0	0	0 ?_	>
READENTSAME	210	6 2		A				Advanced EDB	0 Manager		
	Emulate	d EDIO Lis	t 🔹				Factory	EDIO List	2		
Central	Inputs	Manuf	Resolution	Monitor Name	Source		Memory	Manufacturer	Resolution	Monitor Name	Т
	Input 1	LWR	1920x1200@59.55Hz	UniversalEDID	Mem49		1#	LWR	640+480@60.0Hz	640=480(360	
	Input 2	LWR	1920x1200g69.55Hz	UniversalEDID	Mem49		2#	LWR	640×480(375.0Hz	640×480(375	
	Input 3	LWR	1920x1200@69.55Hz	UniversalEDID	Mem49		3#	LWR	848×480(360.0Hz	848+480(360	
EDID	input 4	LWR	1920x1200@69.55Hz	UniversalEDID	Mem49		48	LWR	800+600@50.0Hz	800+600@50	
	Input 5	LWR	1024x768(060.0Hz	1024x768(360	MemB		50	LWR	800+600@60.30Hz	800+600(360	
	Input 6	OSM	1920x1080(969.92Hz	\$1,65700	Mon4		6#	LWR	800+600g/74.99Hz	800+600@75	
	Input 7	LWR	1920x1200@69.55Hz	UDD UD	Mem49		7#	LWR	1024x768(g.49.96Hz	10241768(8/50	C
	Input 8	NEC	1290+720(366 0Hz	ont/WLDG	Mon1		6# <b>_</b>	LWR	10241768/\$60.0Hz	10241768(860	
Turninal			THE REPORT OF A				94	LWR	1024x768(g75.2Hz	1024x768@75	
			-		LWR	1152x864@75.0Hz	1152:064@75				
_			Dear	5 0	$\gamma_{01}$	LWR	1280x768(250.0Hz	1280x768@50			
				Jian t	sυ	101	LWR	1280x768@69.92Hz	1280x768@60		
						_		LWR	1280x768@75.0Hz	1290×768@75	
							14#	LWR	1360x768(360.1Hz	1360x768(360	
							15#	LWR	1364x768@50.0Hz	1364x768@50	
_							16#	LWR	1364x768@69.93Hz	1364)/768@60	
							17#	LWR	1364x768/974.98Hz	13641/68@75	
i Find							18#	LWR	1280x1024@50.0Hz	1280×1024@	
							15#	LWR	1280x1024@60.1Hz	1280×1024@	
	E						20#	LWR	1280×1024@75.1Hz	1280×1024@	
							21#	LWR	1366×1024@59.99Hz	1366×1024@	
							22#	LWR	1400×1050(2)49.99Hz	1400x1050@	
							23#	LWR	1400×1050@59.99Hz	1400x1050@	
					24#	LWR	1400x1050@75.0Hz	1400×1050@			
					25#	LWR	1680×1050@59.99Hz				
							26#	LWR	1600x1200g50.0Hz	1600x1200@	
							27#	LWR	1600×1200@60.0Hz	1600+1200@	
							20#	LWR	1920x1200@59.55Hz		
							29#	LWR	1920×1200@50.0Hz	1920v1200@	
							30#	LWR	1440x240(g60.3Hz	1440×490xg59	
							31#	LWR	640×480(369.94Hz	640×480(369	
							32#	LWR	720×480@69 92Hz	720×480(369	
							33#	LWR	1440x288@50.6Hz	1440-576-050	
							34#	LWR	720x576(350.0Hz	720+576pig50	
							35#	LWR	1280x720@50.0Hz	1280x720p@	
					36#	LWR	1290x720@60.0Hz	1290x720pg			
							37#	LWR	1920x540(050.3Hz	1920×1080i	

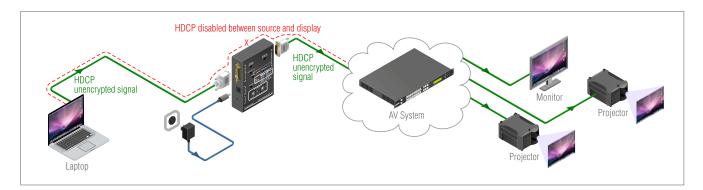
Changing EDID is as simple as drag and drop. The new created EDID file can be saved in **.dat**, **.bin** or even **.edid** file formats, which complies even to Vista X20 controller.



#### HDCP enable/disable function



Some computer sources choose to encrypt their output with HDCP no matter what content is being shown. For example, you are working with non-HDCP content on non-HDCP displays. If you connect an HDCP compliant product onto the output of your source, say a matrix switch, the signal becomes encrypted and you receive no picture.



Our HDCP disable function ensures we are seen as a non-HDCP device to the source and therefore no encryption is attempted. Protected content like BluRay will not be displayed and HDCP encrypted signals will be not unencrypted, thus maintaining the rules set by the HDCP standard.

To switch between the two functions, simply set the rotary switch to MEM01 and push the learn button. You should now see the changed Status LED and your EDID manager, and more importantly, the system itself, will work exactly as expected.



