

## LED Effects Dimming Generator

**Product Code**  
**CT-LEDG25**

### Product Description

The LED Effects Dimming Generator 2x5A box is an easy to use yet powerful special effects pattern generator and dual dimmer for dimmable LEDs. Four button operation allows the user to select different output pattern modes such as candle and power surge flickers, blink, strobe, and brightness. There are 11 effect modes and 100 speed combinations to choose from on two independently settable 5A output channels.

### Applications

Theatrical & Stage Special Effects ■ Graveyard Haunts ■ Halloween Attractions ■ Animatronics ■ Dark Ride Attractions ■ Museums ■ Events & Weddings ■ Props & Film Sets ■ Lighted Signage ■ Lanterns ■ Chandeliers and Candelabra

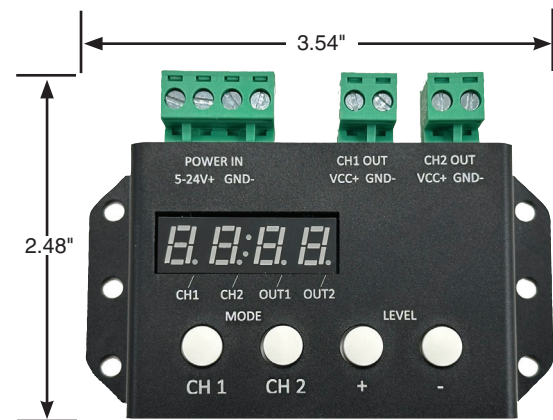
### Product Features and Specifications

<b>FUNCTIONS</b>	LED Effects Dimming Generator	Makes any 5-24vdc dimmable LED flicker, strobe, blink, surge, pulsate, or dim
	Multiple Modes	11 effects
	Dimming Levels	100 per channel
	Speeds	100 per channel
	Set Mode (s)	Stored in memory
	Display	Shows output mode and speed or level of each channel. Goes dark after 1 minute of no button activity.

<b>ELECTRICAL</b>	Input Voltage	Range from 5 to 24 volts DC
	Voltage Input	Equals maximum voltage out
	Output Signal	5-24vDC PWM
	Current Draw	Two independent 5A channels
	Max Output	Drives up to 5 amps per channel
	Settings	4 digit display with 4 push buttons

<b>PHYSICAL</b>	Length	3.54 in
	Width	2.48 in
	Height	0.90 in
	Weight	0.09 kgs / 0.2 lbs
	Enclosure	Aluminium
	Finish Color	Black

<b>OTHERS</b>	Installation Method	Pluggable screw terminal block Dual mounting flanges
	Certification	CE / RoHS
	Warranty	1 year



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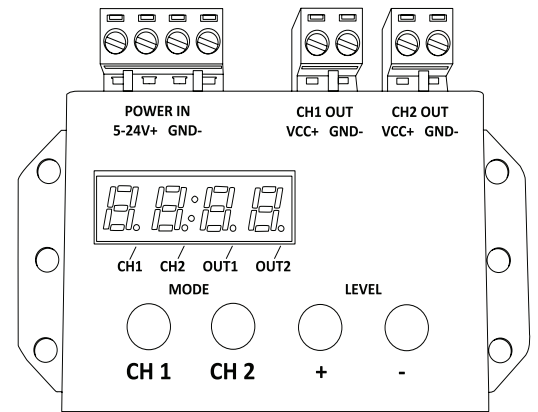
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This standalone device is a two channel dimmer with built in effects that can be set independently. It is designed to function with dimmable LEDs. The input voltage of 5 to 24vDC will equal the maximum output voltage when channel is at 99%. It is best to use an input voltage that matches the voltage of your LED selected, from 5 to 24vDC.

MODE CH1 and CH2 buttons select the mode for that channel. Once a mode is selected, the + and - buttons are used to set the speed or level output of that mode. The display will automatically shut off after a minute of inactivity. The pressing of any button will awaken the display again. Pressing again takes action to advance. MODE buttons loop from 0 to highest value, then back to 0. The holding down of a button will cause it to change at a faster pace. Once released, your setting is stored for that mode or level.

MODE CH1 button: to choose modes for CH01 on display, each press increments mode on left display 00-11, and the + and - to set value from 00-99 of that mode that is shown on right side of display. The unit is left in the mode that is wanted to operate. The dimmer maximum for that channel output is set in Mode 01 of each channel. If the Mode is left in 01, the unit just outputs like a static dimmer, constant on at the level the mode is set at. If MODE CH1 level is left at 00, there is no output, and channel 1 is off.



MODE CH2 button behaves the same as the MODE CH1 button but affects the output settings of Channel 2.

**Notes:**

- Mode 01 of each CH1 and CH2 sets the level of output for all other modes.
- The + and - are used to adjust level of speed (in Modes 02-11) OR the output/brightness for the mode displayed (only in Mode 01) of that channel
- All settings are retained when unit is powered off. Leave unit in desired mode. When the unit powers up, it goes back to doing what it was set to, at the stored max dimmer output, effect mode and speed.
- Mode 01 on each channel acts as a maximum voltage trim (adjustment) for an LED. Some LEDs that don't dim well or have additional voltage regulation may not flicker properly because they try to compensate for voltage fluctuations. It might be necessary to reduce the output voltage range by reducing the level of Mode 01 until the response of the effect is most desirable.

Channel 1 or 2	+ and - Speed or Level	Mode Function Description
00	-	00 = Off, No output. Speed setting is ignored. Use to leave channel off.
01	00-99	01 = Static – Constant On, output On. Acts like a dimmer in this mode. Level becomes an output from 0 to 99%. Sets an output level for that channel from 00-99 and retains it as the constant ON output level for Mode 01, AND as the output max for all other effect modes for that channel. Used to adjust the max output power voltage as a TRIM. When LEDs don't flicker properly, lower this level until it does.
02	00-99	02 = Strobe Effect – This will make the channel output strobe, speed set by +/- buttons from slowest 00 to fastest 99.
03	00-99	03 = Double Strobe Effect – Two quick flashes of that channel output at the max level set in Mode 01. Speed from slowest 00 to fastest 99.
04	00-99	04 = Flame Flicker Effect 1 – This will make the channel output a flicker type 1 similar to a candle flame or fire flicker.
05	00-99	05 = Flame Flicker Effect 2 – This will make the channel output a flicker type 2 similar to a candle flame or fire flicker.
06	00-99	06 = Flame Flicker Effect 3 – This will make the channel output a flicker type 3 similar to a candle flame or fire flicker.
07	00-99	07 = Flame Flicker Effect 4 – This will make the channel output a flicker type 4 similar to a candle flame or fire flicker.
08	00-99	08 = Power Surge – This mode will make the output flicker erratically as though from a power surge or lightning bolt. Speed set using +/- buttons from slowest 00 to fastest 99.
09	00-99	09 = Ember Effect – This option will make the output stay mostly on and turn off slowly. Speed to be set from slowest to fastest. The ups and downs are smaller jumps.
10	00-99	10 = Pulse Effect – This mode pulsates like a breathing effect. Speed to be set by +/-, from slowest to fastest.
11	00-99	11 = Blink Effect – same as Pulse effect, except goes to zero and there is no smooth fade up or fade down of the speed (no fade ramp). Speed goes from slow to fast.