

# LED Samplekit Controller 4 Channel - User Manual



Item No.: LC-001-004

## 1. Product Description

Der LED Samplekit Controller 4 Channel adopts to PWM (Pulse-Width Modulation) control technology with an input voltage of 100-240VAC and an output voltage of 24VDC. With the LED Samplekit Controller 4 Channel you can control Mono LED, Dynamic LED, RGB and RGBW LED individually. The Controller have 5 pre-installed Color Mode Programmes and 10 different Speed Step settings.

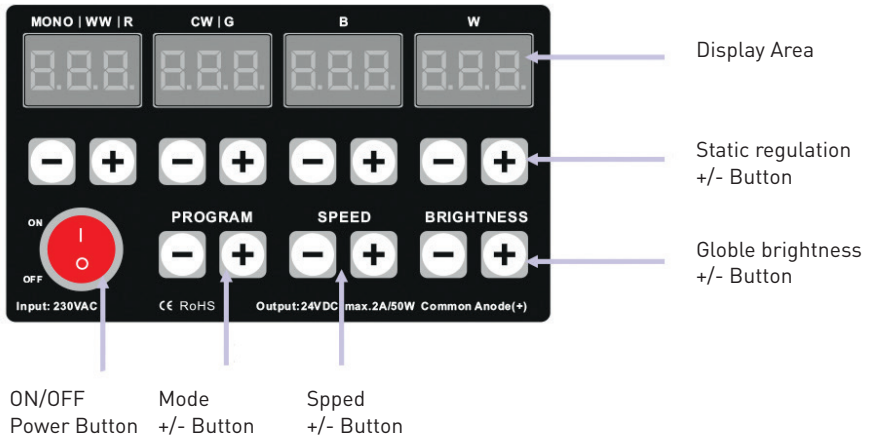
## 2. Specifications




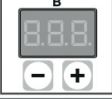


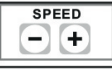

Input Voltage	100-240VAC
Output Voltage	24VDC
Max Output Power	50W
Product Dimenstions (L x B x H) in mm	182 x 115 x 45 mm
Weight	680g

## 3. Basic Features

1. Input Voltage 100-240VAC. Output Voltage 24VDC - 2,1A (50 Watt)
2. Four groups of 3-digital independent displays. Further 4 independent +/- Buttons to adjust any color and dimming steps. Each 2 buttons for programm,- speed,- color,- and dimming settings.
3. recall of 5 different pre-installed color changing modes and 10 different speed setting steps
4. Power loss memory function

## 4. Operating instructions



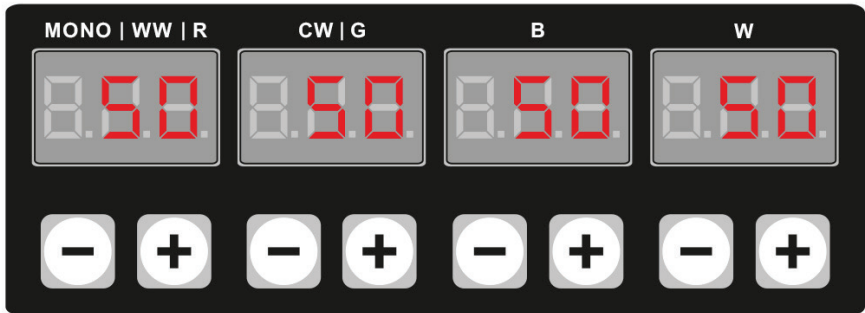
	Main power switch turn to ON position to turn on controller, To OFF to shut down the controller
	Channel 1 (Mono/WW/Red)/Brightness +/- Button. Short Press of +/- Button: to change the brightness from 0% to 100% gradually. Long press of +/- Button: 5 seconds to change from 0% to 100% or from 100% to 0% without sublevel.
	Channel 2 (CW/Green)/Brightness +/- Button. Short press of +/- Button: to change the brightness from 0% to 100% gradually. Long press of +/- Button: 5 seconds to change from 0% to 100% or from 100% to 0% without sublevel.
	Channel 3 (Blue)/Brightness +/- Button. Short press of +/- Button: to change the brightness from 0% to 100% gradually. Long press of +/- Button: 5 seconds to change from 0% to 100% or from 100% to 0% without sublevel.
	Channel 4 (White)/Brightness +/- Button. Short press of +/- Button: to change the brightness from 0% to 100% gradually. Long press of +/- Button: 5 seconds to change from 0% to 100% or from 100% to 0% without sublevel.
	Mode +/- Button. Short press of +/- Button to switch between the pre-installed modes. 5 pre-installed modes available
	Speed +/- Button. Short Press of +/- Button to change the level-speed of the color change speed mode between 1 and 10
	Whole brightness +/- Button. to change the whole brightness. Short press of +/- Button to change the brightness from 0% to 100% gradually. Long press of +/- Button: 5 seconds to change from 0% to 100% or from 100% to 0% without sublevel.

Power on: Put the rocker switch on the controller panel to position ON, then the indicator light of the rocker switch and each LED digital tube will be illuminated, four groups of three LED digital tube displays the current setting, different setting indicates that the controller working in different working conditions. after one minute working, LED digital tube will exterminate all, press any key to resume the display.

1. Static adjustment:

With the +/- Button of each display tube Red, Green, Blue and White or WW/CW the color can be mixed or individually adjusted between 0-100%.

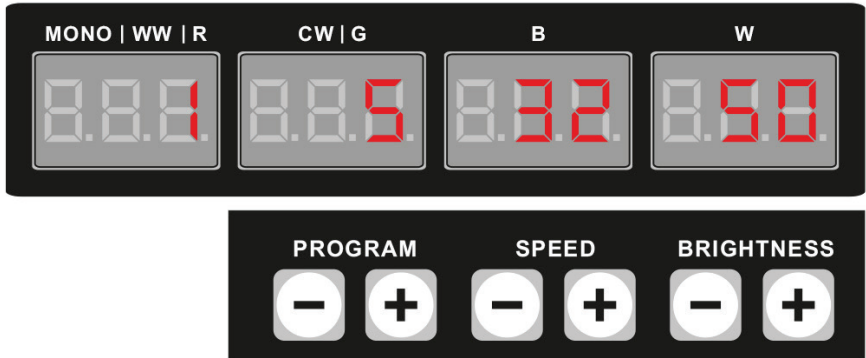
With push of the Brightness Button +/- you can adjust the brightness of the selected color up or down. The brightness can adjusted to the maximum/minimum value. The percentage mix of the seperate adjusted colors red/green/blue/white or WW/CW with two seperate white colors will be unchanged.



Display Static Red				
Display Static Green				
Display Static Blue				
Display Static White				

## 2. Dynamic Mode:

5 different pre-installed color change modes and 10 different speed modes from 0% - 100% adjustable. The 4 digital displays show the selected program (Mono/WW/R), the speed setting program (CW/G), the speed setting in seconds for a cycle (B) and the brightness setting in percent (W).



### Speed rating list:

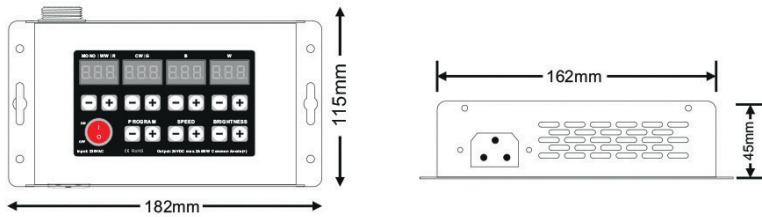
Speed rating	period
1	512s
2	256s
3	128s
4	64s
5	32s
6	16s
7	8s
8	4s
9	2s
10	1s

### Dynamic mode list:

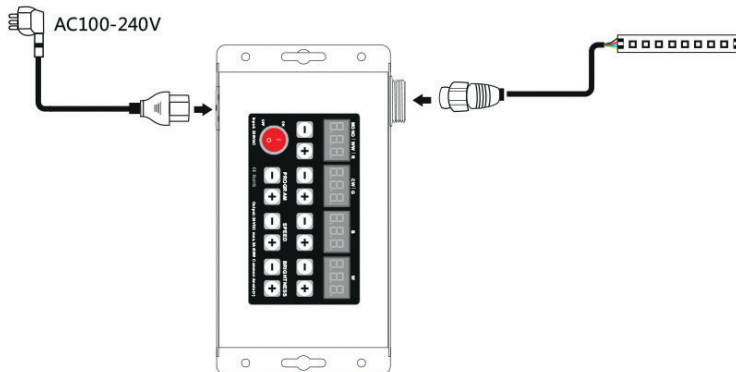
Programm No.	Change Mode
1	RGB full color smooth
2	RGBW full color smooth
3	Color change with warm color shades
4	Color change with cold color shades
5	color change from Cyan to Purple

Malfunction	Causation	Solution
No Light	<ol style="list-style-type: none"> <li>1. no power from the socket</li> <li>2. wrong or no connection to the power</li> </ol>	<ol style="list-style-type: none"> <li>1. check whether the interface have good contact</li> <li>2. check power connection</li> </ol>
Wrong color	RGBW cable wiring wrong	recheck wiring and re-wire the separate cables RGBW
Brightness of the LED is not even	<ol style="list-style-type: none"> <li>1. Output wire to long - voltage drops</li> <li>2. wire diameter too slim - voltage drops</li> <li>3. Controller overloaded</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce cable length or use loop connection</li> <li>2. calculate the current and change to a wider wire</li> <li>3. add a power repeater or change to another larger power supply</li> </ol>
mode not change	1. The setting of the speed is too low	1. Press the + Button of the speed setting to increase speed

#### 4. Dimensions



#### 5. Conjunction Diagram



## 6. Safety warnings

- 6.1. To avoid installed the product in minefield, strong magnetic field and high voltage area.
- 6.2. To ensure the wiring is correct and firm avoiding short circuit damages to components and cause fire.
- 6.3. Please install the product in a well ventilated area to ensure appropriate temperature environment.
- 6.4. The product must be worked with DC constant voltage power supply.  
Please check the consistence of input power with the product, if the output voltage of the power comply with that of the product.
- 6.5. Connect the wire with the power on is forbidden. Ensure proper wiring first then check to ensure no short-circuit, then power on.
- 6.6. Don't repair it by yourself whenever an error occur. Contact the supplier for any inquiry.