RF 2.4GHZ RGB LED SPI CONTROLLER SET

| MODEL NO: DIGISPICONKIT

IP20 | Remote Controlled | CE | CE EMC | CE LVD | RoHs

TECHNICAL INFORMATION

Specifications

Input & Output	**Compatible IC's**	TM1803, TM1804, TM1809, TM1812, UCS1903, UCS1909, UCS1912, UCS2903, UCS2909, UCS2912, WS2811, WS2812, TM1829, TLS3001, TLS3002, GW6205, MBI6120, TM1814B, SK6812, UCS8904B, LPD6803, LPD1101, D705, UCS6909, UCS6912, LPD8803, LPD8806, WS2801, WS2803, P9813, SK9822, TM1914A
LED Remote	**Output Signal**	RF (2.4GHz)
	Working Voltage	3V DC (CR2032)
	Standby Time	2 Years
	Remote Distance	30m
	Size	L 107mm x W 58.5mm x H 9mm
LED Receiver	**Input Voltage**	5 - 24V DC
	Output Signal	SPI (DATA / CLK)
	Output dots	1024 Max.
	Size	L 97mm x W 33mm x H 18mm

ULTRA LEDS

ultraleds.co.uk

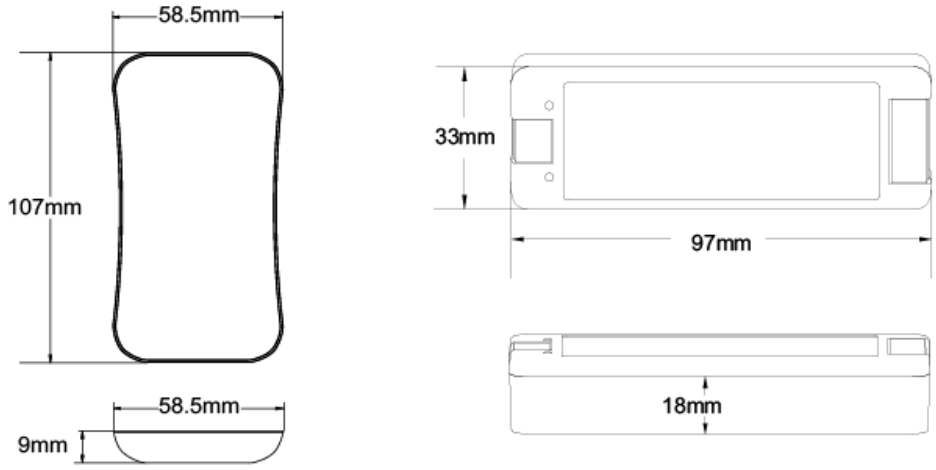
0800 088 3300

orders@ultraleds.co.uk

FEATURES & BENEFITS

- Mini-style RF 2.4G multi-pixel RGB controller with SPI signal output
- Output SPI signal to control a variety of digital LED lights with the compatible IC's listed. IC type and R/G/B order can be set through the remote
- Adapt 2.4GHz wireless technology, remote distance up to 30m
- Built in 32 dynamic mode, include horse-race, chase, flow, trail, gradual change styles
- By RF remote controls you can select from a variety of dynamic lighting effects, adjust changing speed and brightness, set control pixels quantity, adjust RGB sequence, select IC type
- You can also customise two kinds of scene modes to bring you fantastic colour

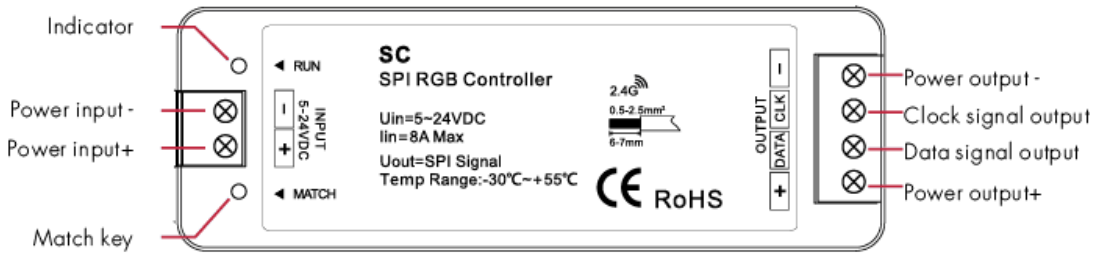
DIMENSIONS



Match Guide

1. **Match: Short press match key on the receiver, within 5 seconds, press on/off key on the remote.**
2. **Delete: Long press match key on the receiver for 5 seconds, delete all matched remotes.**

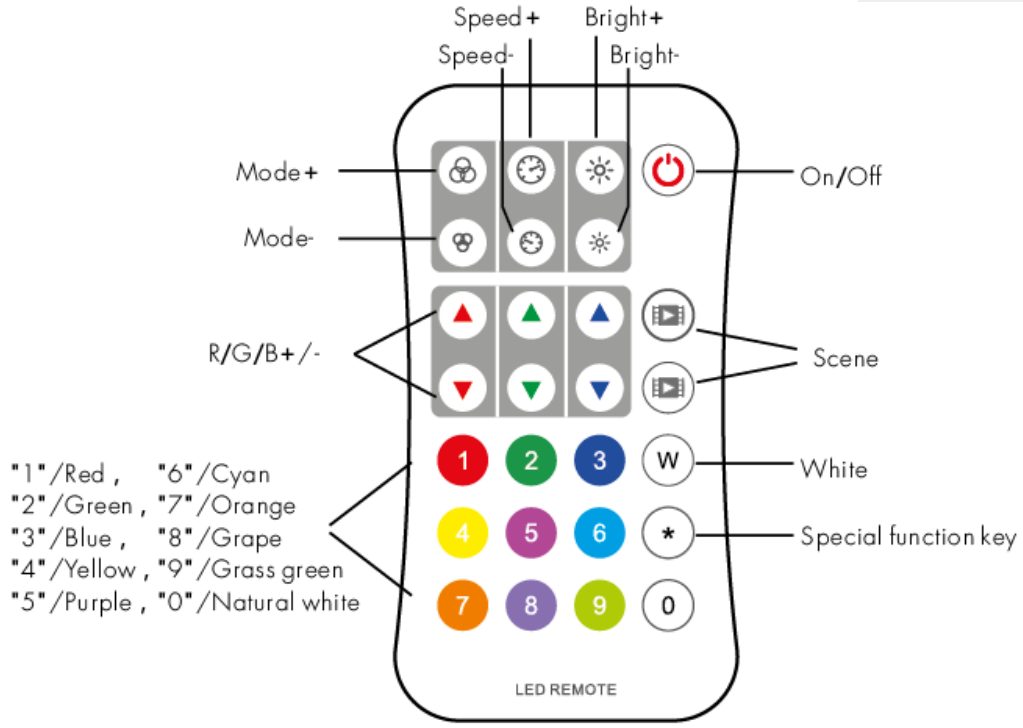
INTERFACE INSTRUCTION



SAFETY INFORMATION

1. The product shall be installed and serviced by a qualified person.
2. This product is non-waterproof. Please avoid the sun and rain.
3. Good heat dissipation will prolong the working life of the controller, please ensure good ventilation.
4. Please check if the output voltage of any power supplies used comply with the working voltage of the product.
5. Ensure all wire connections and polarities are correct and secure before applying power to avoid any damages to the LED lights.
6. If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

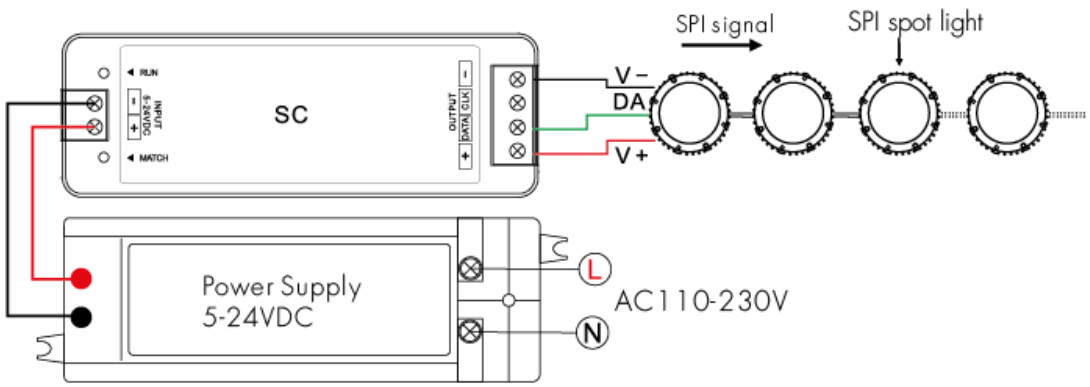
REMOTE FUNCTION



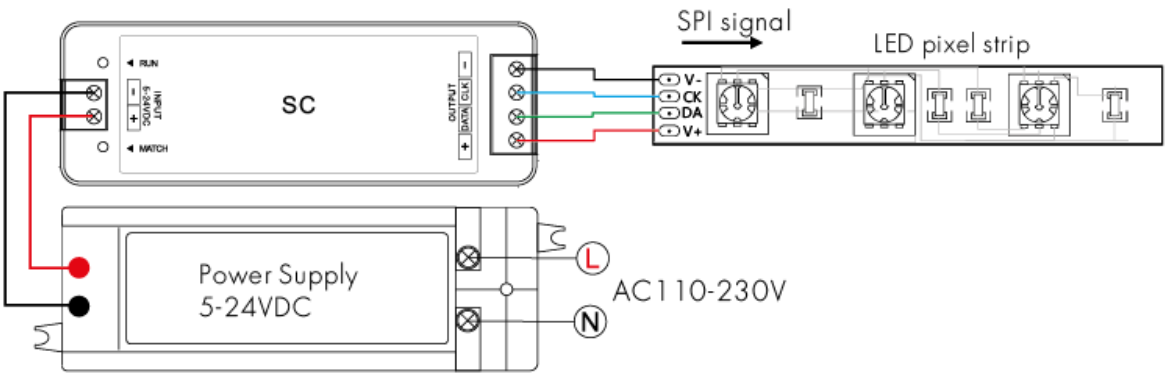
Mode +/- : Short press switch dynamic mode built in controller, long press 2 seconds Mode+ run mode cycle, long press 2 seconds Mode- run the first mode.
Speed +/- : Adjust dynamic mode speed, short press 10 levels, long press 2 seconds get the fastest/slowest speed.
Bright +/- : Adjust brightness, short press 10 levels, long press 1-5 seconds for continuous 256 levels adjustment.
R/G/B +/- : Adjust R/G/B brightness respectively. short press 10 levels, long press 1-5 seconds for continuous 256 levels adjustment.
White: Adjust white colour, short press turn on/off white (RGB mix), long press 15 seconds for continuous 256 levels saturation adjustment.
Scene: Two scene memory, short press recall the scene, long press 2 seconds current colour to the scene.

WIRING DIAGRAM

SC connect with SPI spot light(TM1803)



SC connect with SPI pixel strip(LPD6803)



RGB CHANGE MODE LIST

No.	Name	No.	Name	No.	Name
1	Red horse race white ground	12	Blue White chase	23	Purple float
2	Green horse race white ground	13	Green Cyan chase	24	RGBW float
3	Blue horse race white ground	14	RGB chase	25	Red Yellow float
4	Yellow horse race blue ground	15	7 color chase	26	Green Cyan float
5	Cyan horse race blue ground	16	Blue meteor	27	Blue Purple float
6	Purple horse race blue ground	17	Purple meteor	28	Blue White float
7	7 color multi horse race	18	White meteor	29	6 color float
8	7 color horse race close + open	19	7 color meteor	30	6 color smooth sectionally
9	7 color multi horse race close + open	20	Red float	31	7 color jump sectionally
10	7 color scan close + open	21	Green float	32	7 color strobe sectionally
11	7 color multi-scan close + open	22	Blue float		

COMPATIBLE IC TYPE

No.	IC type	Output signal
1	TM1803	DATA
2	TM1809,TM1804,TM1812,UCS1903,UCS1909,UCS1912, UCS2903,UCS2909,UCS2912,WS2811,WS2812	DATA
3	TM1829	DATA
4	TLS3001,TLS3002	DATA
5	GW6205	DATA
6	MBI6120	DATA
7	TM1814B(RGBW)	DATA
8	SK6812(RGBW)	DATA
9	UCS8904B(RGBW)	DATA
10	LPD6803,LPD1101,D705,UCS6909,UCS6912	DATA,CLK
11	LPD8803,LPD8806	DATA,CLK
12	WS2801,WS2803	DATA,CLK
13	P9813	DATA,CLK
14	SK9822	DATA,CLK
15	TM1914A	DATA

USE REMOTE SET SPI DIGITAL LED STRIP

- Set LED strip length [Pixel number(8~1024)]. * + 3 number + * for example:
  032, set pixel number to 32.
  600, set pixel number to 600.
  1024, set pixel number to 1024.
- Set LED strip chip type. * + 2 number + *
  11 : TM1803
  12 : TM1809,TM1804,TM1812,UCS1903,UCS1909,UCS1912,UCS2903,UCS2909,UCS2912, WS2811,WS2812
  13 : TM1829
  14 : TLS3001,TLS3002
  15 : GW6205
  16 : MBI6120
  17 : TM1814B(RGBW)
  18 : SK6812(RGBW)
  19 : UCS8904B(RGBW)
  21 : LPD6803,LPD1101,D705,UCS6909,UCS6912
  22 : LPD8803,LPD8806
  23 : WS2801,WS2803
  24 : P9813
  25 : SK9822
  31 : TM1914A
- Set LED strip RGB order. * + 1 number + *
  1 : RGB, *2* : RBG, *3* : GRB, *4* : GBR, *5* : BRG, *6* : BGR.