

Versatile Digital LED Controller

DIGC1RF USER ' S MANUAL

- 99 Dynamic Modes
- 29 Static Colors
- Unit Length Adjustable
- Speed Adjustable
- Static Brightness Adjustable
- Card Type RF Remote
- Ultra Slim Design
- Loop Demo Mode
- Drive up to 800 Pixels
- Power off Memorize

3. Cascading strip installation

This controller can drive up to 800 pixels in series. At series installation, the power voltage on LED load might drop due to cable or PCB resistance, the brightness might drop with increasing of series length. In this case, please add extra power supply at the point that brightness dropped, to maintain proper working voltage to whole LED loads.

Remote Pairing

The controller and remote is 1 to 1 paired as default. The controller only can be controlled by paired remote. When extra remote is needed or the controller need to be matched to any remote, user can match the remote by following combination operation.

1. Pairing a new remote

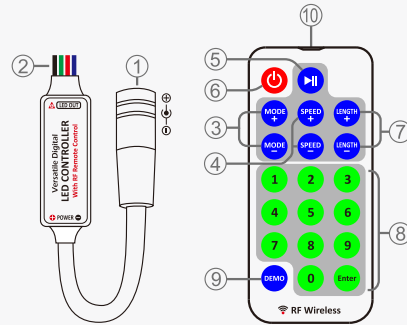
- Do following operation to pair a new remote:
1. Plug off the controller power and plug in again after 10 seconds.
 2. Press 'MODE-' and 'LENGTH-' key at same time in 5 seconds after power on, then release keys and press 'MODE+' key in another 5 seconds.
- The controller can be paired to maximum 5 remotes.

2. Pairing to any remote

- Do following operation to accept all same remote:
1. Plug off the controller power and plug in again after 10 seconds.
 2. Press 'MODE-' and 'LENGTH-' key at same time in 5 seconds after power on, then release keys and press 'DEMO' key in another 5 seconds.

Functions

UltraLux®



1. Power Input

The power supply input. The DC jack's inner pole is positive and sleeve is negative. Also please make sure the power supply voltage is same as the LED load.

2. Signal Output

The control signal output connector to LED load.

3. Mode Adjust

Adjust running mode. Jump to next mode by press 'MODE+' or jump to previous mode by press 'MODE-'.

4. Speed (Brightness) Adjust

Adjust the running speed of dynamic mode or brightness of static color. There are 10 levels for both speed and brightness.

5. Pause / Play

Toggle between Play and Pause mode. It will quit pause and start to play if changing the running mode.

6. Turn On / Standby

Turn on or switch to standby mode. The main unit will memorize the current setting. When power on or turn on unit, it will automatically restore to previous status.

7. Unit Length (Static Color) Adjust

Adjust playing unit length at dynamic modes or adjust color at static color mode. At static color mode, press these keys to loop change 20 colors.

8. Program direct selecting keys

User can directly select program by the number and Enter key in this area. For example, if you want program number 58, please press number 5 and 8, then press Enter key to confirm. The program '0' is static color mode. At this mode, user can adjust brightness or color by SPEED and LENGTH keys.

9. Demo Mode

Switch to demo mode. In demo mode, the controller will automatically cycle play 99 dynamic programs.

10. Remote Controller Indicator

This blue indicator will light up when remote controller works. In program direct selecting operation, this indicator will flash slowly until Enter key pressed or no operation for a certain time.

Hints: The remote controller works at radio frequency, the signal can pass through barrier, so it's not necessary to aim at the controller when operate the remote.

Installing

1. Power Supply

The power supply jack is a 5.5mm diameter DC socket. The main unit can work at DC 5V to 24V. Since the power supply is directly connected to the LED signal output, please make sure the power voltage is same as the LED load, otherwise the incorrect voltage may damage LED load! When LED load is powered individually, the main unit can also work with the LED load power, and the power supply to this DC jack can be saved.

2. Output Signal

The output signal is in a SM type plug. The cable at the '▲' maker side is power supply, the cable sequence is power-data-clock-ground. The controll signals are running at high speed, led may not work properly if the data cable is too long or get interfered. In This case, please shorten the data cable from controller to LED or install the controller close to LED.

Programs

0	Static color	25	Red-purple-red forward
1	Full color forward flow	26	Red-purple-red reverse
2	Full color reverse flow	27	Red-purple-red open
3	Full color open	28	Red-purple-red close
4	Full color close	29	Red-yellow-red forward
5	6-color forward comet	30	Red-yellow-red reverse
6	6-color reverse comet	31	Red-yellow-red open
7	6-color comet open	32	Red-yellow-red close
8	6-color comet close	33	Green-yellow-green
9	3-color forward comet	34	Green-yellow-green
10	3-color reverse comet	35	Green-yellow-green open
11	3-color comet open	36	Green-yellow-green close
12	3-color comet close	37	Green-cyan-green forward
13	Green sandglass	38	Green-cyan-green reverse
14	Red sandglass	39	Green-cyan-green open
15	Blue sandglass	40	Green-cyan-green close
16	3-color sandglass	41	Blue-purple-blue forward
17	6-color forward flow	42	Blue-purple-blue reverse
18	6-color reverse flow	43	Blue-purple-blue open
19	6-color open	44	Blue-purple-blue close
20	6-color close	45	Blue-cyan-blue forward
21	3-color forward	46	Blue-cyan-blue reverse
22	3-color reverse	47	Blue-cyan-blue open
23	3-color open	48	Blue-cyan-blue close
24	3-color close	49	Blue-white-blue forward

50	Blue-white-blue reverse	75	6-color sway
51	Blue-white-blue open	76	6-color sway with
52	Blue-white-blue close	77	Blue ground white ping-
53	Red-white-red forward	78	Green ping-pong
54	Red-white-red reverse	79	Green ping-pong with
55	Red-white-red open	80	Red ping-pong
56	Red-white-red close	81	Red ping-pong with
57	Green-white-green	82	Blue ping-pong
58	Green-white-green	83	Blue ping-pong with
59	Green-white-green open	84	3-color ping-pong with
60	Green-white-green close	85	6-color ping-pong with
61	Green sway	86	Green drop
62	Green sway with	87	Green drop with ground
63	Red sway	88	Red drop
64	Red sway with grounding	89	Red drop with ground
65	Blue sway	90	Blue drop
66	Blue sway with	91	Blue drop with ground
67	Yellow sway	92	Blue ground white drop
68	Yellow sway with	93	Red ground white drop
69	Purple sway	94	Green ground white drop
70	Purple sway with	95	3-color drop
71	Cyan sway	96	6-color drop
72	Cyan sway with	97	3-color sway
73	3-color sway	98	6-color sway
74	3-color sway with	99	6-color jump

Specification

Dynamic Program	99 programs
Dynamic Speed	10 levels
Dynamic Length	16-500
Demo Mode	Yes
Static Color	29 colors
Static Brightness	10 levels
Working Voltage	DC 5-24V
Driving Capacity	800 pixels
Control mode	RF wireless remote
Remote Frequency	433.92MHz
Remote Distance	>15 meters at open area
Battery type	CR2025 / 3V