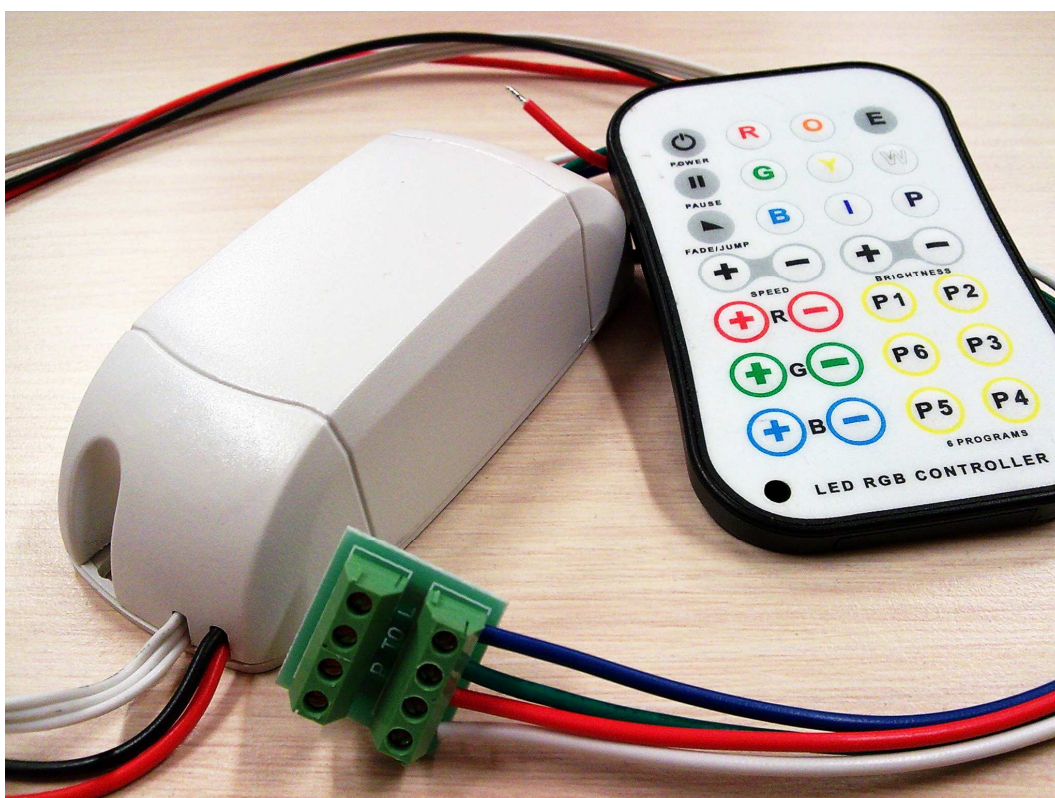


AWCL-120-6P

Mini 6 Programs RGB Controller

USER'S MANUAL



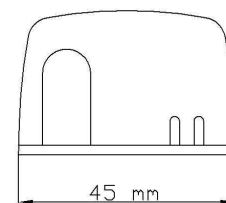
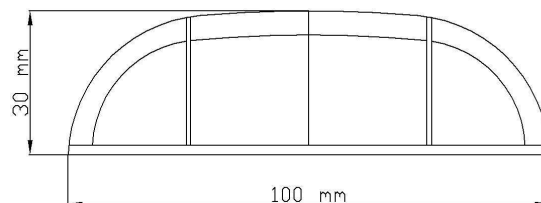
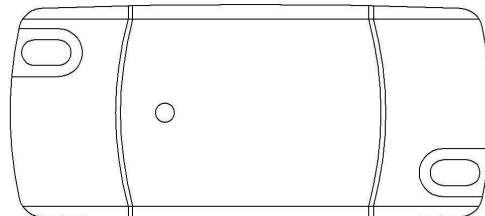
1. Introduction:

1.1 Features

- Support IR-remote control interface ◦
- R、G、B brightness can be adjusted individually, and auto-save the setting ◦
- Built-in six color changing programs; it can be set Fade/Jump and changed the dynamic speed during color changing.
- The maximum output current is 2A x 3 channels, that's 72W/12V or 144W/24V ◦

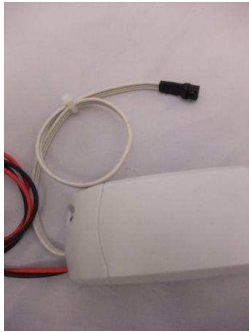
1.2 Specifications

Operation Voltage	DC10V~30V ◦
LED Output Power	72W/12V or 144W/24V
LED Module Type	Constant Voltage with constant current or Constant voltage
Max output current	2A/channel x 3 channel
Weight	73g
Size	L:100mmxW:45mmxH:30mm
Operation Temperature	0°C ~+50 °C
Storage Temperature	-10°C ~ +60 °C



2. User Guide

2.1 Input/ Output Interface



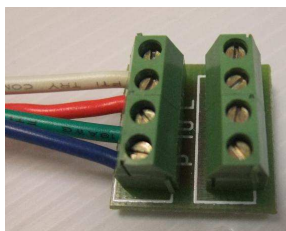
IR Sensor with 50cm extension wire.



Right side: power input

Left side: Output-Terminal to LED modules

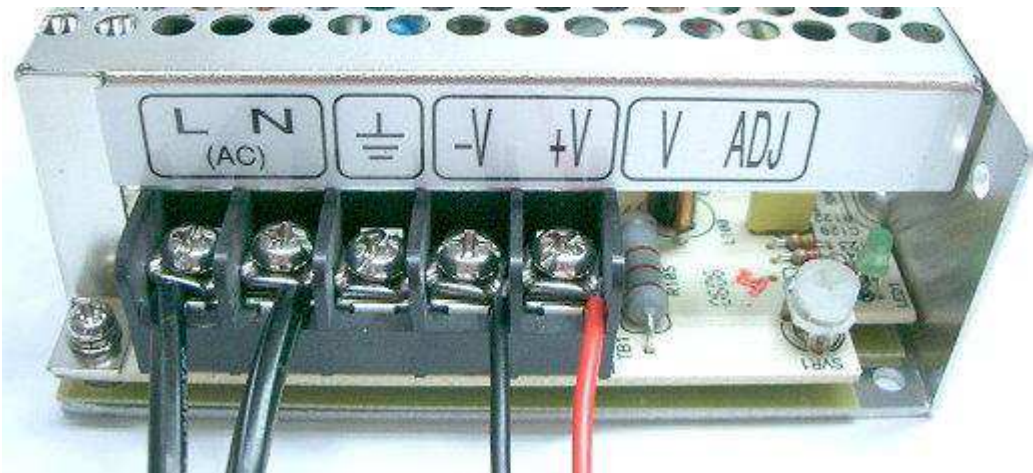
- A. IR Sensor: The distance between IR remote controller and RGB Controller is 7~10m.
- B. Power Input: Power input DC10V~30V.
- C. Output: connect to LED modules



White line=COM or V+
Red line=Red LED
Green line= Green LED
Blue line=Blue LED

- D. Built in Buzzer: Receiving signal from IR remote controller then the buzzer will sound.

2.2 AWCL-120-6P RGB Controller to DC PC Supply



Input power: DC 10V~ 30V

2.3 AWCL-120-6P RGB Controller to Power Supply and LED Modules

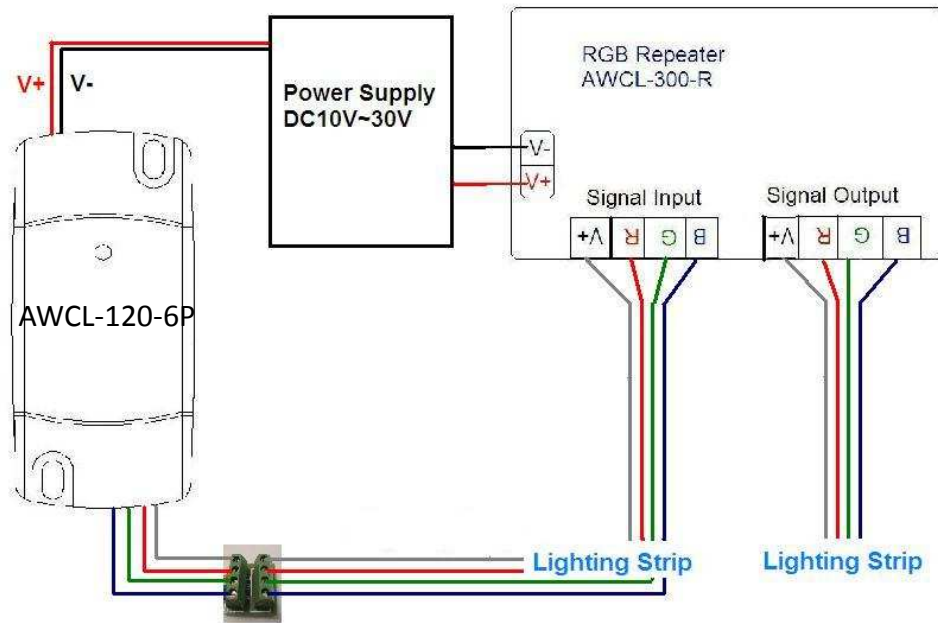


Output power: DC24V/144W; DC12V/72W

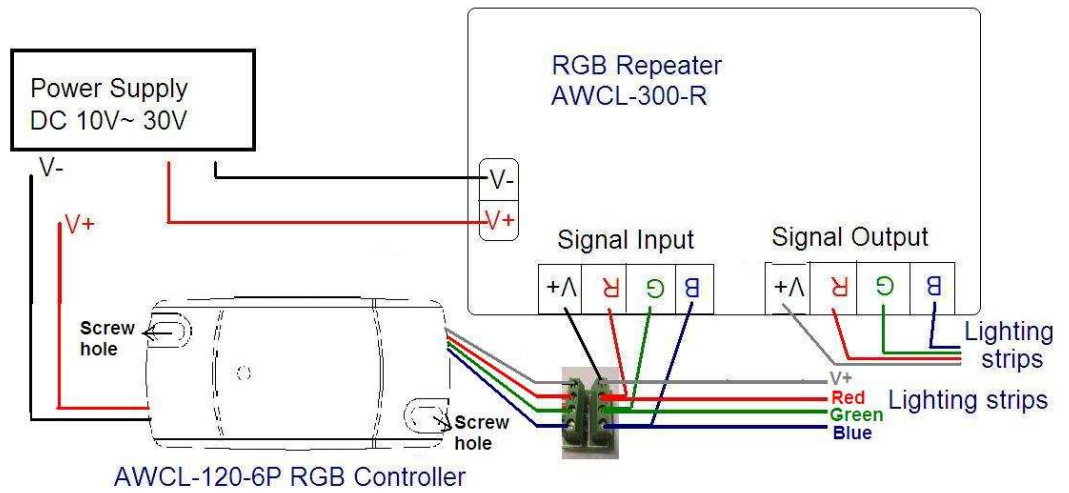
2.4 AWCL-120-6P RGB Controller connects to AWCL-300-R

Signal Repeater for extension connecting.

While Voltage drops or consumption of AWCL-120-6P RGB Controller is full, connect AWCL-300-R RGB Repeater (DC10V~30V, 5Ax3 channels) by the last LED module or directly connect the RGB controller and the signal repeater by wires for signal Extension. Please check the AWCL-300-R's manual for more detail specification.

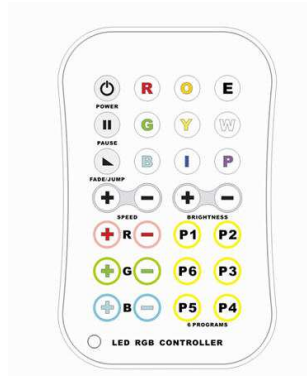











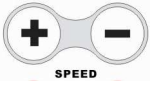


<AWCL-120-6P connects with the Signal repeater by lightings>













<AWCL-120-6P connects with the Signal repeater by wires>

2.5 IR Remote Controller



 Power POWER	Power ON/OFF
R, G, B, O, Y, I, W, P	Single color in static mode  =100% Red;  =100% Green;  =100% Blue;  Orange=100%Red+50% Green;  Yellow=100%Red+100%Green;  Indigo=100%Green+100%Blue;  White=100%Red+100%Green+100%Blue;  Purple=100%Red+100%Blue.
E	LED will flash if in single color
Speed+ /- 	P1~P6 Dynamic mode speeding or slower, total 25 degrees.※
Brightness+/- 	Dynamic mode and static mode brighter or darker, total 17 degrees. ※※ **When in “Voice control mode”, you may use the “brightness” control the Sensitive of sound source. Darker means to reduce the sensitive, but it won’t be auto-save in the setting.
 Pause PAUSE	P1~P6 pause. Press the “Pause” button again after set in pause mode; it will back to the mode before you pause it.

 Fade/Jump	Switching P1~P6 to Fade/Jump mode
P1~P6 programs	Built-in Color mixing 6 programs. Choose one program then set it in fade or jump mode.
P1 	100%Red ->100%Red+100%Green ->100%Green ->100%Green+100%Blue ->100%Blue ->100%Red+100%Blue ->100%Red->repeat
P2 	100%Red ->100%Red+50%Green ->100%Red+100%Green ->50%Red+100%Green ->100%Green ->100%Green+50%Blue ->100%Green+100%Blue ->50%Green+100%Blue ->100%Blue ->50%Red+100%Blue ->100%Red+100%Blue ->100%Red+50%Blue ->100% Red ->repeat
P3 	100%Red ->100%Green ->100%Blue ->100%Green ->100%Red ->repeat
P4 	100%Red ->Dark ->100%Red+100%Green ->Dark ->100%Green ->Dark ->100%Green+100%Blue ->Dark ->100%Blue ->Dark ->100%Red+100%Blue ->Dark ->100%Red ->Dark ->repeat
P5 	100%Red ->100%Red+100%Green ->100%Green ->100%Green+100%Blue ->100%Red+100%Green+100%Blue ->100%Blue ->Dark ->100%Red+100%Blue ->100%Red->repeat
P6 	100%Red+100%Green ->Dark ->100%Green+100%Blue ->Dark ->100%Red+100%Blue ->Dark ->repeat
R+/- 	Add or decrease red color in static mode, total 17 degrees. (see ※※)
G+/- 	Add or decrease green color in static mode, total 17 degrees. (see※※)
B+/- 	Add or decrease blue color in static mode, total 17 degrees. (see ※※)

Note:

1. R+/-/G+/-/B+/-: To mix the color you need to be in static mode. For example, while the color of the LED module is blue, press R+ button, then the LED color turn to purple; press R- button again, the LED color will return to blue.
2. P1~P6 color mixing programs: Built-in color mixing programs could not be changed. When mass quantity, user could have their own design of color mixing programs.

※ : The speeding degrees as follows : (ms)

1	2	3	4	5	6	7	8	9	10	11	12	13
0.064	0.128	0.256	0.512	0.768	1.024	1.536	2.048	3.072	4.096	5.12	7.168	8.192
14	15	16	17	18	19	20	21	22	23	24	25	
10.24	12.288	15.36	20.48	32.768	40.96	49.152	65.536	81.92	102.4	147.46	204.8	

※※ : The brightness degrees as follows: (%)

1	2	3	4	5	6	7	8	9
0	6.25	12.5	18.7	25	31.25	37.5	43.74	50
10	11	12	13	14	15	16	17	
56.25	62.5	68.75	75	81.25	87.5	93.75	100	