

Product Specification



Model: CT-P01-A
Name: IR 24# RGB controller
(with integrated power supply)

Summary

Integrated power supply controller is developed according to the features and installing request of RGB controller and power supply in the market, which could simplify wiring arrangement, improve its stable functionality. It is connected with AC power with wide voltage input. Meanwhile, functions such as brightness, speed and color modes change are available via 24keys Remote controller. This LED controller can be matched with all kinds of low-voltage RGB lights, such as RGB rigid light strip, flexible light strip, RGB panel light, RGB modules and so on.

Features

1. Switching power supply and RGB controller integrated technology for stable function and simplified installation.
2. Short-circuit protection to avoid damage to controller caused by wrong connection among wires, controllers and power supply.
3. Line-sequence adjustable by the last key on the remote controller panel, for matching +RGB, +GRB, +BGR strip in the market.
4. Strong durability for low temperature, the controller can work normally in extremely low temperature environment.
5. Auto adaptation of AC80V ~ 265V, 50~ 60Hz voltage input and with input polarity protection function.
6. The newest PWM control technology, delicate light performance, no flicker.
7. High power dimmer control MOS tube with stable and reliable performance.
8. 6-8 meters IR remote control distance.
9. Multi-level, multi-color, multi-change flexible control effects.
10. Multi-type memory functions for color, modes, speed, and brightness
11. Smart appearance, standard input and output port, easy installation and high cost performance.

Applications

1. Construction decoration: commercial buildings, airports or subways.
2. Indoor decoration: hotels, shopping malls, squares, restaurants, bars, houses.
3. Outdoor decoration: advertising boards, parks, bridges, roads and overpasses, scenic spots.
4. Others: Decorating for motor vehicles, samples reveal ark and the places needing RGB lights.

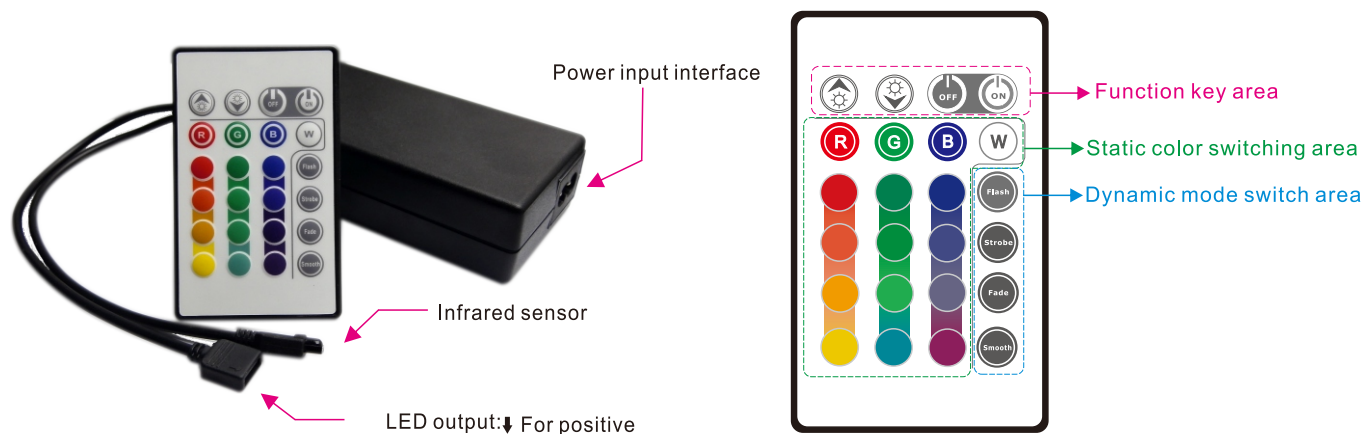
Technical parameters

Controller	
Supply voltage	AC85~265V 50/60Hz
Loadable current	12VDC 2Ax3CH 6A MAX.
Output channels	3CH
Output power	72W/144W(12V/24V)
Control method	IR
Connection mode	Common anode
Changing number	20 (16 static color, 4 dynamic color)
Dimmering mothod	PWM

Technical parameters (Continue)

Grey steps	256
Remote Controller	
Working voltage	3VDC
Remote control way	IR
Controlable distance	6-8m
Battery types	Li battery, CR2052
Key Number	24keys
Whole machine	
Working temperature	-20°C~60°C
Identification	CE 、 ROHS
Weight	220g
Packing size	L152×W62×H66mm

Panel and interface specifications





Control method


Adopt IR remoter to control the led controller, which has 24 buttons, the functions of each button as the table below:

Brightness+ or Speed+	Brightness- or Speed-	OFF	ON
Static red	Static green	Static blue	Static white
Static orange	Static pea green	Static dark blue	3 base color jumpy
Static dark yellow	Static blue	Static brown	3 color fade change
Static yellow	Static pea blue	Static pink	7 color fade change
Static pea yellow	Static cyan	Static purple	7 base color jumpy

Instruction of multi-function key:

There are two multi-function keys on the panel of Remote Controller  and  which are for brightness adjustment when it is static color modes, and speed adjustment when it is dynamic color modes.

Instruction of how to adjust line-sequence:

In the market, there are different line-sequence of LED strips, so for convenience in use, this type of our RGB controller has function of line-sequence adjustment via certain operations for matching + RGB, +GRB, + BGR LED strips. When clients discover that the output line sequence is different from the line sequence of LED strips, please switch off the remote controller, then press the last key , if successful, the strip will flash to inform users. Then switch on to test whether it is well-matched. If not well-matched, please repeat above operations unit it is right.

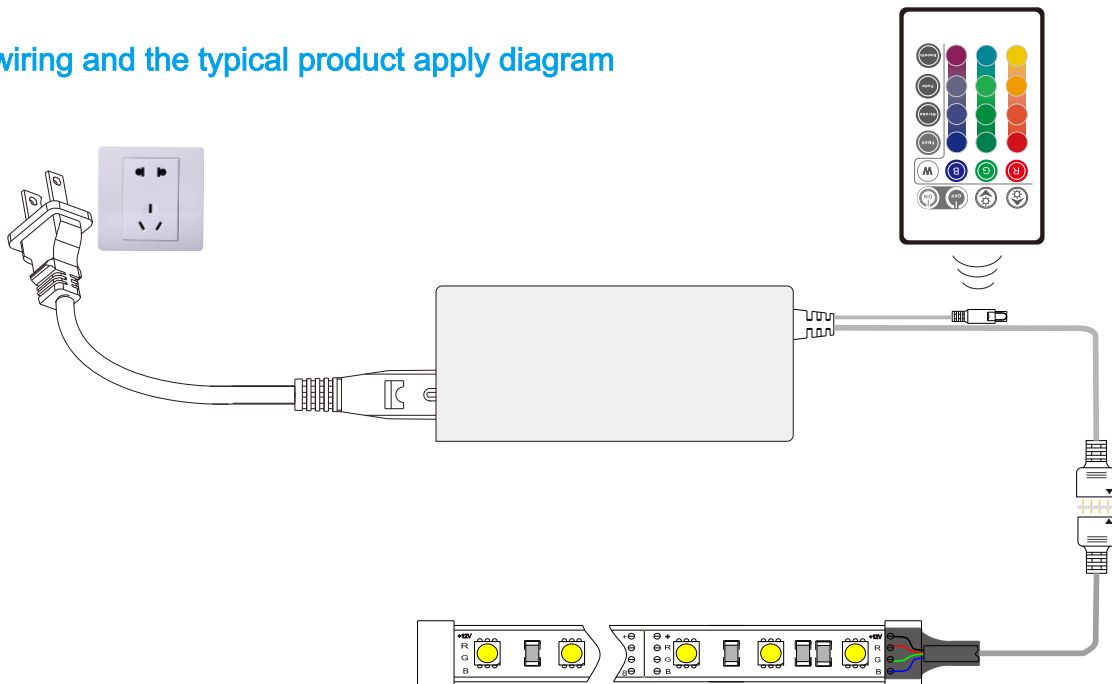
Output short circuit protection function about the description:

In order to prevent engineering installation connection error or short circuit cause LED lamps burn out of the controller, the controller introduces short circuit protection technology. When output in use process on electricity or short-circuited, LED controller will close lamps output, into state protection. When found on the controller after power, if not bright lighting, can try out the problem of whether the output circuit; When output short circuit, after an error, please pull out LED controller power, then wait for 20 s to will be able to resume the normal use of power.

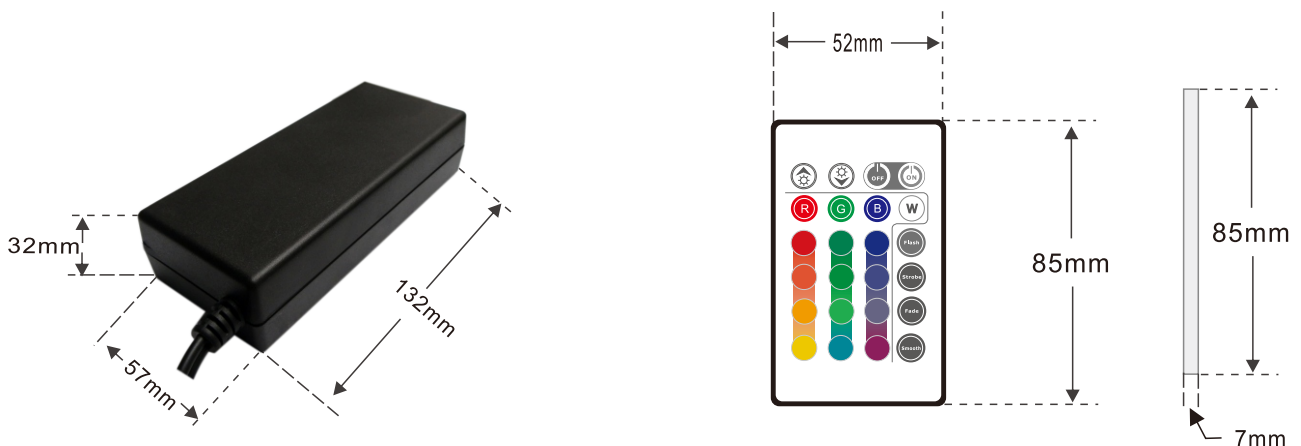
Take off battery insulated card at the first time:

To avoid battery exhaustion caused by extrusion during production and transportation, battery insulated card will be inserted into controller. So when it is used for the first time, please take off it.

The wiring and the typical product apply diagram

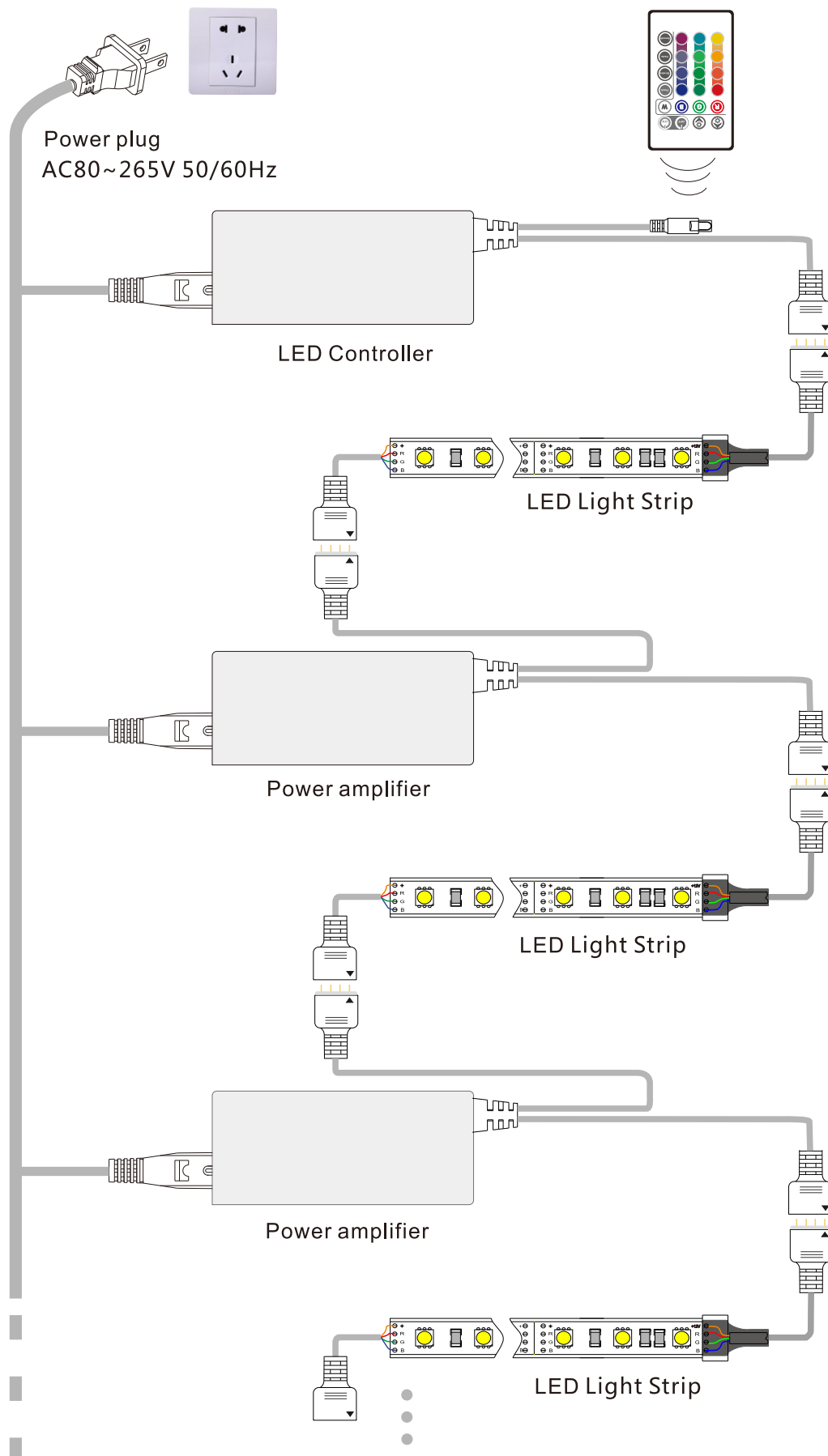


Product dimensions

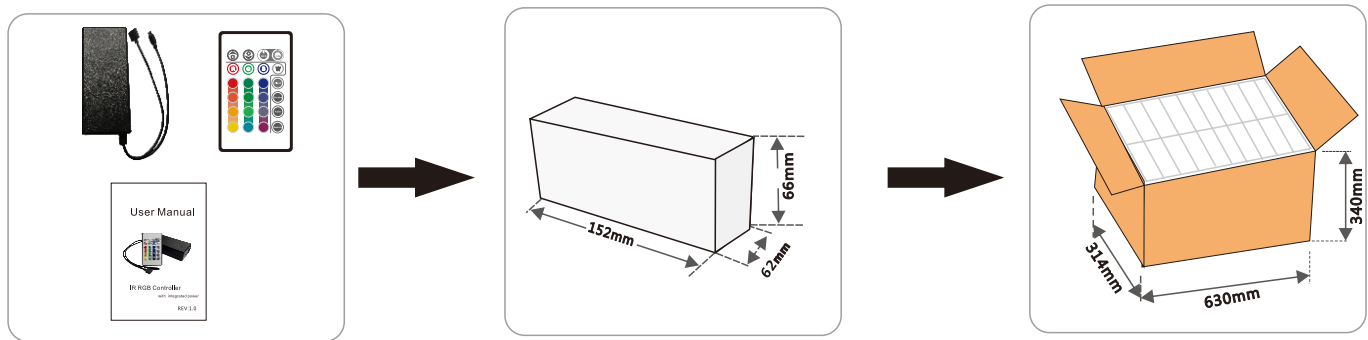


Power developing figure

In application, if the output power is not enough, this power supply amplifier can be used to match with LED controller. which can be used to connected with more LED lamps, or optimize the whole control effects. Take CT-P03-A connecting with RGB LED controller and LED strip for example to display the connecting diagram.

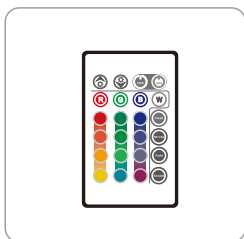


Product packaging



Controller size	Remote size	Packaging size	Weight/pcs	Carton size	Weight/box(100pcs)
L132×W57×H32mm	L85×W52×H7mm	L152×W62×H66mm	250g	L630×W314×H340mm	25.6kg

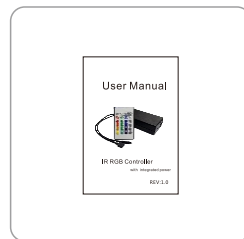
Product Accessories



Remote control



Controller



Manual



The power cord
(Need another order)

Installing caution

1. Please install the products by professional electrician.
2. This product can not waterproof, please put into water-proof tank if the clients want to use it outdoor.
3. Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.
4. Please don't install this controller in lightening, intense magnetic and high voltage fields.
5. Check if the voltage and power adapter suit the controller and LED lights.
6. Please make sure the wires can sufficiently load the LED lights for avoiding accident.
7. Please make sure all the wires are connected correctly before switching on the power.

After-sales service

1. The customers enjoy lifelong technical support for our products:
 - Free Warranty: The customers enjoy free maintenance or replacement for quality problems within one year upon date of purchasing.
 - Paid Warranty: If the free warranty time is overdue, we will charge certain cost of raw materials for repair or maintenance.
2. Following cases are excluded free warranty terms:
 - Any defects caused by unauthorized removal, maintenance, modifying circuit, incorrect connections and replacing chips.
 - Any damages caused by negligence, inappropriate storing at high temperature and humidity or environment near harmful chemicals.
 - Any damages due to transportation, breaking, flooding water after the purchase.
 - Product appearance seriously damaged or deformation.
 - Any damages caused by earthquake, fire, flood, lighting strike etc force majeure of natural disasters.
3. Our company would take up the biggest responsibility to replace the same type and quantity accordingly.
4. The clients please inform suppliers the faulty phenomena, using environment etc. For speeding up the maintenance process.

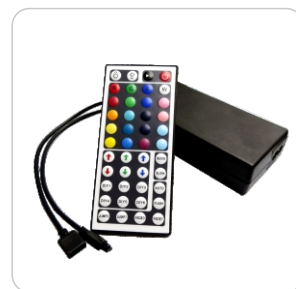
Related products



Model : CT-P03-A
Name: RGB power amplifier
(with integrated power supply)



Model : CT-P01-B
Name: IR 24# RGB controller
(with integrated power supply)



Model : CT-P02-A
Name: IR 44# RGB controller
(with integrated power supply)

Version modify records

Version	Date	Content
REV: 1	2012.5.19	Created