Product Specification

Model: AP-035RF Black

Name: Iron Shell 20 keying

[Brand]: AIPIN-TECH

[Product name]: Iron Shell 20-key controller

[Model]: AP-035RF

[Operating voltage]: 12-24VDC

[Working current]: 18A 24A 30A (customizable)

[Function mode]: 20

[Remote control size]: 84mm*52mm*7mm

[Size control]: 82mm*84mm*33mm high

[Product weight]: 200g

[Controllable light bar]: 20 meters per 10 meters amplifier can be infinitely connected to the

light bar

● Overview

This product is a stable wireless control method adopted by our company. Humanized design, beautiful and elegant, direct and convenient; Long-distance and non-directional color control can be realized with only one key in hand. This remote controller can control RGB lamps with color selection, mode transformation, brightness and speed adjustment and other related functions. It has the characteristics of long distance, strong driving ability and stable performance. This product can adapt to various constant voltage RGB lamps, such as RGB hard light bar, soft light bar, RGB panel lamp, RGB module, flat light, panel lamp, etc.

● Features

1. Input voltage adaptive DC12 ~ 24V, with input polarity protection function.

2. Advanced PWM (pulse width modulation) control technology is adopted, with fine change effect and no flicker.

3. Strong driving load capacity, up to 18A, stable performance.

4. Wireless remote control, no direction, remote control distance is not less than 20m.

5. The remote controller has low power consumption and long standby time.

6. It Has Memory functions such as color, mode, speed and brightness.

7. The appearance is novel, beautiful and elegant, especially suitable for indoor home and commercial places.

● Technical parameters

Controller	
Operating voltage	12V~24VDC
Working current	6Ax3CH【8Ax3CH　12 Ax3CH】Customizable
Output Channel	3CH
Output power	216W/432W(12V/24V)【288W/576W　432W/864W】
Control mode	RF
Output mode	Common positive connection
Number of changed styles	20 kinds
Output Control mode	PWM
Output gray level	256
Remote	
Operating voltage	1.5VDC
Remote control mode	RF
Transmission frequency	433Mhz
Remote control distance	More than 20 meters
Battery Type	1 No. 5 (A) Battery
Standby power consumption	0.08mW
Operating power consumption	6mW
Transmit power consumption	40mW
Number of keys	20 buttons
Complete machine	
Operating temperature	-20℃~60℃
Authentication	CE 、RoHS

Weight (gross weight)	200g
Packing size	L100*W100*H65mm

● Remote control and connection instructions

Symbol	Function
	Turn on/off
	Pause key
	Brightness plus or minus key: used to increase or decrease brightness in static mode.
	Static monochrome shortcut keys
	Speed plus or minus key: used to increase or decrease the speed in Dynamic mode

	Three-color gradient seven-color gradient
	Three-color jump seven-color jump
	Autoplay dynamic key
	Static to dynamic key
	Power Input Port: input voltage: 12 ~ 24VDC
	Load output port: used to connect LED RGB lamps

Pass code and pair code

This product is compatible with two types of code communication

When you need to check the code, you can use the instructions on the picture. Within 5 seconds after the controller is powered on,

The remote controller simultaneously presses the "pause key" and "open key" light band or the lamp flickers for three times, indicating that the code is successfully matched.

If the light band or lamp does not flicker for three times, please re-operate the above process.

Our company defaults to the general code specification when the products leave the factory.

Remarks:

1. Same frequency: it means that multiple controllers and remote controllers can be used

universally.

2. Different frequencies: it means that a remote controller can only correspond to one controller.

● Installation of remote control battery

The remote controller uses an A battery with A voltage of 1.5V. When replacing the battery, please open the back cover of the remote controller and fill a battery according to the direction instructions on the battery box.

Note: when the indicator light on the remote controller flickers regularly, this reminds the user that it is time to replace the battery.

# ● Low power consumption mode and wake-up of remote controller

When the user does not use the remote controller for 15 seconds, the remote controller will automatically enter the sleep mode with lower power consumption to save standby power consumption and prolong battery life. When users need to reuse the remote controller, they can wake up the remote controller by touching the mode switch key on the panel and then use it normally.

● Schema table

No.	Mode	Remarks	No.	Mode	Remarks
1	Static red	Adjustable brightness	12	Red stroboscopic	Adjustable speed
2	Static Green		13	Green stroboscopic	
3	Static Blue		14	Blue stroboscopic	
4	Static yellow		15	Yellow stroboscopic	

| 5	Static purple		16	Purple stroboscopic	
6	Static cyan		17	Cyan stroboscopic	
7	Static White		18	White stroboscopic	
8	Adjustable speed		19	Red and blue alternate gradient	
9	Seven-color jump	Adjustable speed	20	Blue-green alternate gradient	
10	Three-color gradient				
11	Seven-color gradient				Fixed mode

● Wiring and typical application diagram
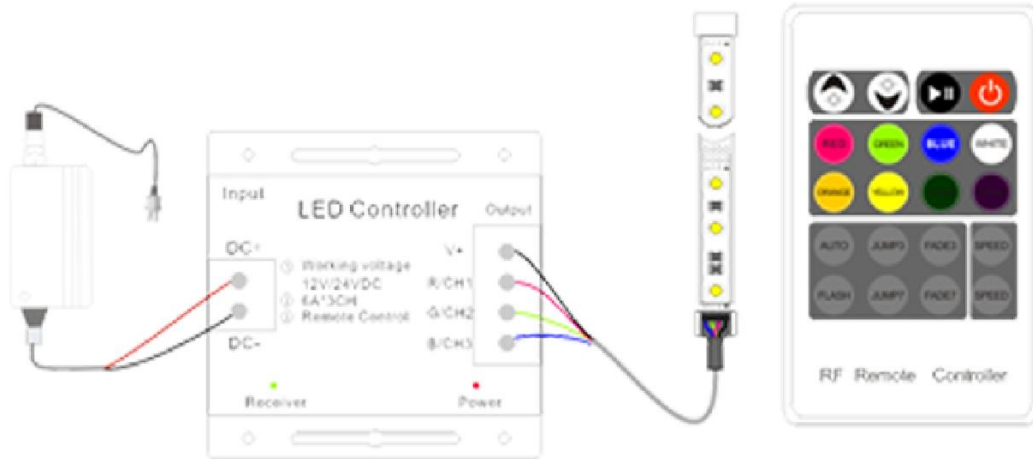
● Product Size
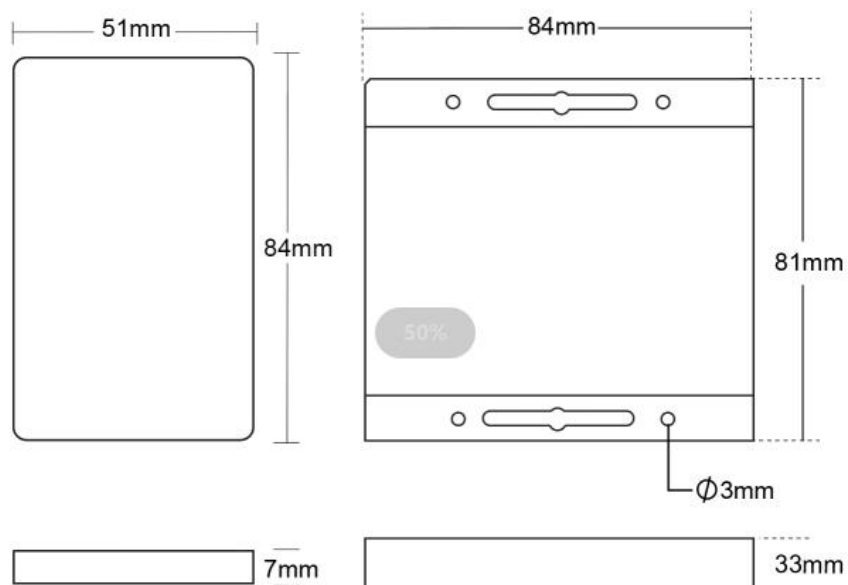
● Product packaging
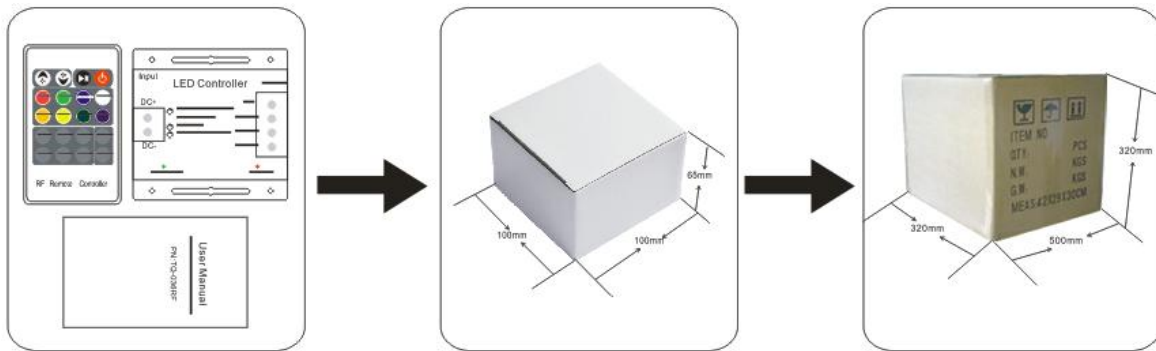
Controller size	Remote control size	Box size	Weight/set	Carton size	Weight/50 sets
L82*W84*H33mm	L84*W52*H7mm	L100*W100*H65mm	200g	L500×W320×H320mm	10kg

● Installation Precautions

1. Please debug and install this product by personnel with professional qualifications.

2. This product cannot be waterproof and needs to avoid sun and rain. If installed outdoors, please use a waterproof tank.

3. Good heat dissipation conditions will prolong the service life of LED controller. Please install the product in a well-ventilated environment.

4. Please do not install and use such products in lightning, thunder, strong magnetic field or high voltage.

5. Please check whether the output voltage of the LED power supply used meets the requirements of the product voltage range.

6. The diameter of the used wire must be sufficient to load the LED lamps connected, and ensure that the wiring is firm to avoid accidents caused by overheating of the wire or poor contact.

7. Before power-on and debugging, ensure that all wiring is correct to avoid lamp damage caused by wiring errors.

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● After-sales service

1. Our LED controller products provide lifelong technical support and warranty services:

Free warranty: if there is any quality problem within one year from the date of purchase, our company will provide free repair or replacement service.

Paid warranty: a certain cost of repair materials will be charged for products beyond the free warranty period.

2. The following conditions are not covered by free warranty or replacement services:

Excessive high voltage, overload, improper operation and other man-made damages.

Any wiring errors, water immersion (non-waterproof products) and unauthorized maintenance.

Any serious damage or deformation of the appearance caused by transportation or knocking.

The appearance of the product is seriously damaged or deformed.

Damage caused by natural disasters and force majeure, such as earthquakes, floods, fires, etc.

3. The company's greatest responsibility for ex-factory products is to replace products of the same model and quantity.