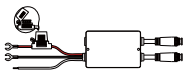
Master Parts List

Spotlight KD100 *2
Lamp body bracket base (lower/upper part) *2
Lamp body bracket mounting clip (lower/upper part) *2
M5 spring washer *6 M5*14 hexagon socket screw *6
M8*40 hexagon socket screw *2 M8 self-locking anti-loosening nut *2

Wireless remote *1
Wireless remote control holder *1
M2.5*6 screw *2
M2.5 spring washer *2



Motorcycle Smart Relay Control Box *1

M8*35 inner hexagon screw *2 , suitable for pipe diameter 22-32mm
M5*25 inner hexagon screw *2 , suitable for pipe diameter 22-32mm
M8 spring washer *2 M5 spring washer *2 M8 external serrated non-slip washer *2

Lamp body fixed installation clip anti-skid rubber pad *4

Thread anti-slip glue *1

Description of intelligent temperature control and lighting duration

LED is a kind of heating element, which is sensitive to temperature, especially in the environment of high power and high brightness, it is easy to damage or shorten the service life of LED due to excessive temperature. Our company uses an intelligent temperature control design, which detects the temperature in the LED wick. Because the structure of the lamp is different, the thermal conductivity of the entire lamp is also different. Generally, the temperature on the surface of the lamp is constant between 50 and 60 degrees.
When the temperature is higher than the set temperature, the power will be automatically reduced to achieve the purpose of cooling down. At this time, the brightness of the lamp will also decrease; and after the temperature drops (when the battery is fully charged), the power will slowly increase. The brightness has also been improved; the process of increasing the brightness is relatively soft and does not produce a flickering feeling. Such a temperature control cycle effectively ensures safe use and prolongs the life of the lamp.
In good air cooling conditions (low temperature or windy environment), the brightness of the light will not drop even in high brightness mode.
There is no pre-start time for temperature control. Under real-time temperature monitoring, the temperature of the spotlight body will affect the speed of battery discharge, and also affect the actual lighting duration and brightness data.

Smart Relay Description

The smart relay is actually an "automatic switch" that uses a small current to control the operation of a large current. It plays the role of automatic adjustment, safety protection, conversion circuit and so on in the circuit.
On the basis of this principle, our company designed a smart relay suitable for spotlights, which not only effectively improves the performance of motorcycle auxiliary spotlights, but also plays a good role in protecting auxiliary spotlights and motorcycle batteries.

Maintenance instructions

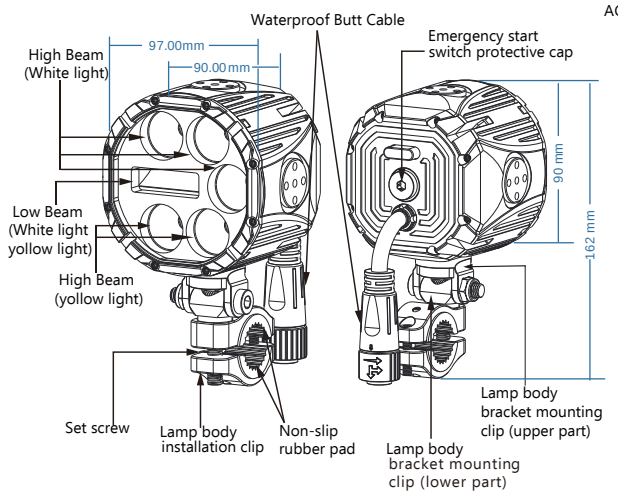
1. Regularly clean the dust and debris on the lens and lamp body to ensure maximum brightness. If possible, use a soft cloth or eyeglass cleaner to avoid scratching the glass surface.
2. Please keep the cable interface and the lamp body away from water, dust, sand and debris.

Warn ⚠

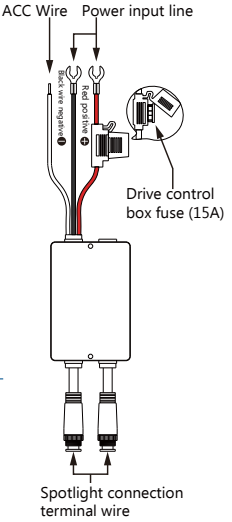
1. This product is not a toy, please keep it away from children.
2. Please do not shine the headlights directly into the eyes of people or animals, strong light may cause permanent damage to the eyes.
3. When meeting cars, the lights should be adjusted to the low beam mode, so as not to cause interference to the other party's driving vehicles.
4. During the use of the lamp or after it is used up, the lens and lamp body of the car lamp will become hot, please do not touch it directly with your hands within 30 minutes.
5. When the lamp is on, please adjust the light to a reasonable position, and do not directly illuminate the other vehicle to avoid safety accidents.
6. Do not disassemble this product by yourself, so as not to cause damage to the lamp cup or lamp beads and decrease the waterproof level.
7. Keep the appearance of the lamp body clean to facilitate the heat dissipation of the lamp body.
8. Please be sure to use this product within the voltage range. Excessive voltage may cause damage to the product.
9. Electric motorcycles using this product must be connected to a 12V (above 10A) voltage converter.
10. The final interpretation right of this product manual belongs to the manufacturer.

KD100 Spotlight Instruction Manual

Product representation of KD100 spotlight lamp body:

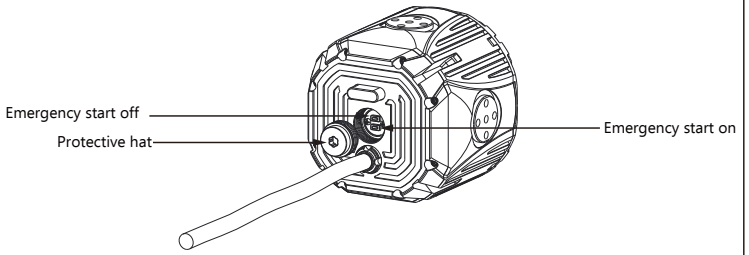


Motorcycle intelligent relay control box diagram:



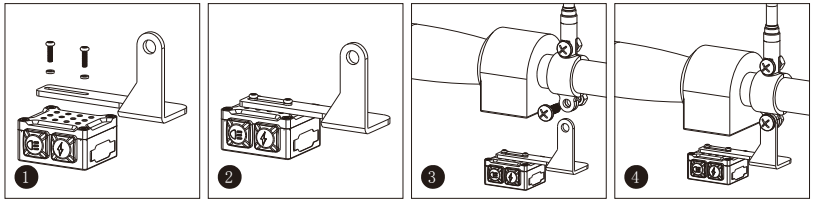
Emergency Start On/Off Instructions for Use

Spotlight emergency start ON/OFF is hidden behind the lamp body, as shown in the figure below, to use, just unscrew the protective cap; unscrewing the protective cap may cause the waterproof level to drop, please do not unscrew the protective cap unnecessarily.
The spotlight emergency start on/off is only for emergency use when the wireless remote control is not available.



Remote Control Installation Instructions

The wireless remote control is designed for convenient installation and can be directly installed on the bracket base of the rearview mirror. Install the wireless remote control bracket base, adjust the position of the bracket and tighten the screws, as shown in Figure "1" and "2" below; install the wireless remote control with the bracket base installed on the bracket base of the rearview mirror, as shown in Figure "3" below; finally put the rear Tighten the screws on the base of the mirror bracket, as shown in Figure "4" below.

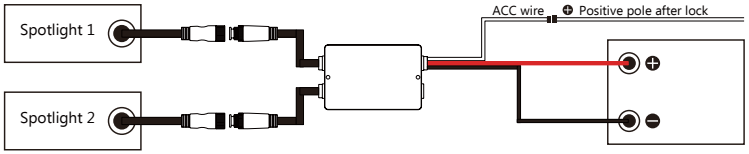


Instructions for spotlights, dual ACC mode smart controllers and power connections

1. The working input voltage of the spotlight: 12V-15V, make sure that the spotlight works within the range of the input voltage;
2. Pay special attention, the connecting wires on the spotlight and the relay control box are red for "+" positive pole, black for "-" negative pole, and white for ACC wire. (The white ACC is connected to the positive line after the lock on the car). If the connection is wrong, the spotlight will not work properly;
3. The waterproof plugs of the two lamp bodies are plugged in with the corresponding waterproof plugs of the wire group. Remember to tighten the waterproof cap after plugging in;

ACC mode 1: The white ACC line is not connected, the red line is connected to the positive pole of the battery, and the black line is connected to the negative pole of the battery. After the vehicle is started, the voltage is greater than 13.5 and starts to work;When the vehicle is off, it will stop working if it is less than 13V, and it will be protected against overvoltage at 17V;
ACC mode 2: The white ACC line is connected to the positive pole after the car is locked, the red line is connected to the positive pole of the battery, the black line is connected to the negative pole of the battery, and the working start voltage is 11V; this mode is suitable for vehicles with unstable voltage and lithium battery, and modified battery cars;
(Note: If this mode is used for fuel motorcycles, if the engine does not start and lights up, the battery will be over-discharged and the vehicle cannot be started).

Power supply (battery, storage battery) ——Smart relay ——Spotlight connection diagram:

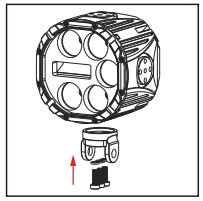


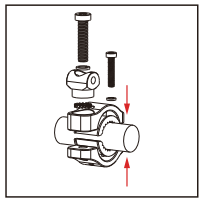
Note 1: Please be sure to use this product within the voltage range. Excessive voltage may cause damage to the product.
Note 2: To use this product on electric motorcycles, a 12V~17v (above 10A) voltage converter must be connected.

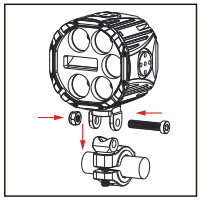
Spotlight Installation Instructions

1. When installing, screw anti-skid glue must be applied on the screw to prevent the screw from loosening and causing the lamp to fall;
2. The best installation height is 60cm from the ground.

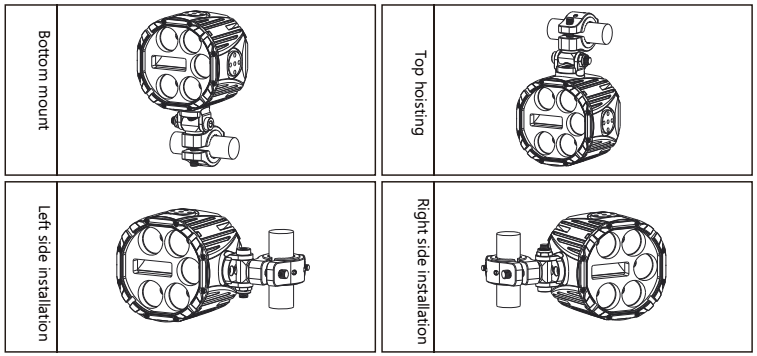
The spotlight lamp body is installed on the fixed column:


Tighten the screws of the light body and the bracket mounting clip (upper).


Fix the bracket mounting clip with the anti-slip pad on the selected position


Finally, tighten the connecting screws.

Four kinds of spotlight lamp body installation scheme:



Product features

1. Exquisite and strong LED auxiliary lighting spotlights, which integrate long-distance light, close-up light, warning, rain and fog lights in one;
2. The vehicle-grade optical lens is adopted, and the main visual area is a rectangular spot, which realizes full road lighting;
3. Precise brightness control, high beam/low beam/far and near beam/fog light/flash light modes are available;
4. With cool white/warm white/yellow light, three color temperatures;
5. Wireless remote control switch control, easy to operate;
6. Lighting range over 600 meters;
7. High-performance LED light source, the service life can reach 50,000 hours;
8. The intelligent temperature control system is adopted to greatly improve the service life of lamps and batteries;
9. IP68 waterproof design, can be used in rainy environment;
10. Multi-angle installation of lamp body bracket and adjustable wireless remote control bracket;
11. Aviation-grade aluminum alloy, CNC processing and forming lamp body, which can provide strong protection and heat dissipation, so that the service life of LED lamps is longer;
12. Hard anodizing and coloring treatment;
13. Split pipe clamp, easy and convenient to install. With universal mounting bracket, multi-angle installation can be easily realized.

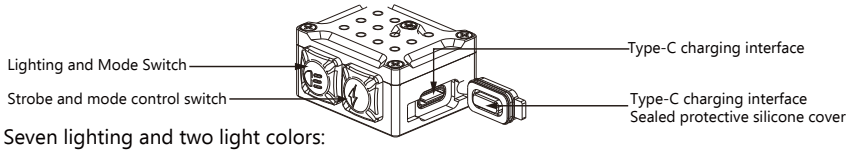
KD100 Spotlight Instruction Manual

Product Parameters

Product number	KD100				
LED	CREE super bright LED lamp beads				
CCT	Far white LED light	Near white LED light		Yellow LED light	
	6000K-6500k	5000K-6000k		2800k-3200K	
ANSI/FSC	Lighting mode			Flashing lights and fog light	
Mode	Distant white light	Near white light	Distant light and near light fully open	Distant light and fog light(yellow light) alternating light	Fog light (yellow light)
Luminous flux（LM）	11000 LM	6500LM	12000 LM		7000LM
power	90W	55W	120 W		60W
Operating Voltage	12-15V				
Irradiation distance	>600m				
IP rating	IPX8 （ 2 meters underwater）				
Anti-drop height	1M				
Size	97.5*97.5*90MM (Spotlight)				
Weight	1016g (Lamp body + waterproof terminal wire ±5g ）; 28g(wireless remote ±3g ）				
⚠ The above data is a single spotlight parameter					

Instructions for spotlight and remote control

Note: 1.The spotlight power supply switch has been in the power state when leaving the factory.If it needs to be turned off, the protective cap of the spotlight power switch must be unscrewed.
2. When not charging, the protective cover of the USB charging connector must be covered to avoid dust and debris;
3. It is strictly forbidden to use a high-pressure water gun to wash the remote control and spotlights.



Seven lighting and two light colors:

Low beam (warm white) | High beam (white light) | High beam and low beam together | Fog lights (yellow light) | Three kinds of flashes (high beams, yellow lights of fog lights flashing alternately)

Far and near beam lighting and flash instructions:

1. When the light source is off, press the switch button on the remote control (Œ) to turn on the low beam. Press again to turn on the high beam; in the near light state, press and hold for 1 second or double-click (Œ) twice to turn on the near yellow light; in the far light state, press and hold for 1 second or double-click (Œ) twice to turn on the white high beam + yellow low light;
2. Press the remote control (⚡) switch, three flashing modes,Press and hold (⚡) the switch for more than 1 second or double-click 2 times, all lights will be turned off.

Charging the remote control:

The USB charging cable on the remote control is an Android interface, and the charging voltage is 5V. When charging,the red light of the strobe mode button is on, and the red light is off when fully charged. (The remote control is not charged when it leaves the factory, and it can be used for about 450 days in standby. Working hours depend on frequency of use).
Insufficient voltage of the remote control: When using the remote control, the indicator light will flash several times, please charge at this time;

FCC Statement:
This device complies with part 15 of the FCC Rules. Operation is subject to the following
two conditions: (1) This device may not cause harmful interference, and (2) this device
must accept any interference received, including interference that may cause undesired
operation.
This equipment has been tested and found to comply with the limits for aClass B digital
device, pursuant to part 15 ofthe FCCRules. Theselimits aredesigned to provide reasonable protection against harmful interference in a residential installation. This
equipmentgenerates,usesandcanradiateradiofrequencyenergyand,ifnotinstalled andused inaccordance withthe instructions,may causeharmfulinterferencetoradio communications.However,there isno guaranteethatinterferencewill notoccur ina particularinstallation.Ifthisequipmentdoescauseharmfulinterferencetoradioor television reception, which can be determined by turning the equipment off and on, the
user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.
Caution: Any changes or modifications not expressly approved by the party responsible
for compliance could void the user's authority to operate the equipment.

Thisequipment complies withFCC radiation exposure limits setforth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with minimum distance 20cm between the radiator&your body.