

PIR Sensor



Specification For Induction LED flood light

PRODUCT NAME: PIR Sensor LED flood light

PART NO: STG-100W-230V
STG-150W-230V
STG-200W-230V

Made By	Checked by
Hu	Jason Song

CE



ROHS



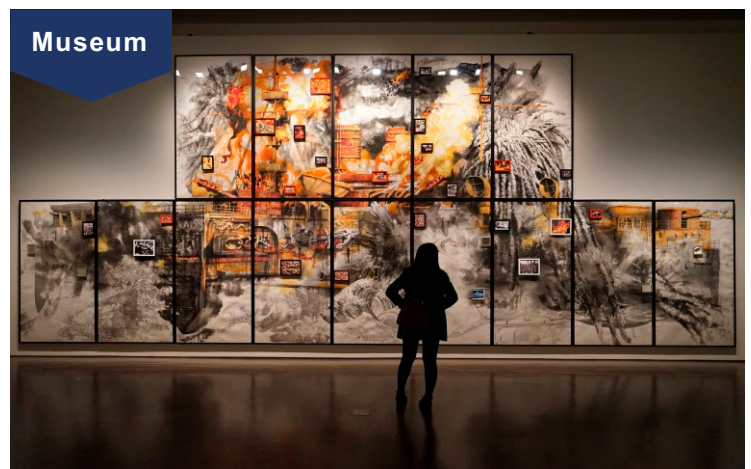
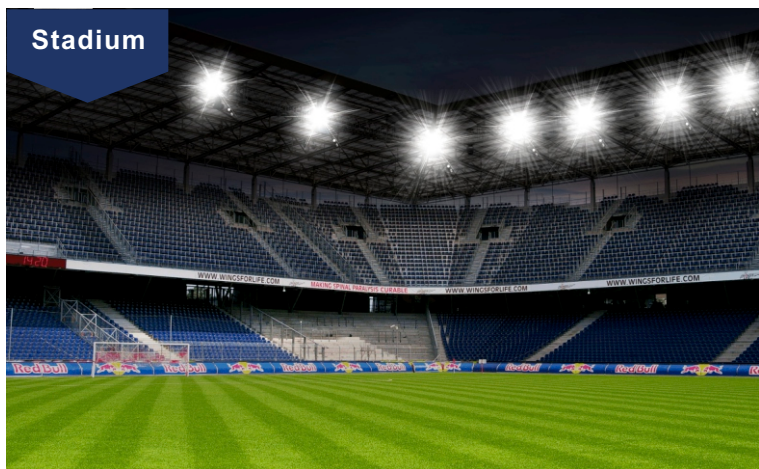
Features

- Aluminum die-cast alloy body and toughened glass,durable and completely corrosion resistance.
- Good heat dissipation performance.
- IP rating is up to IP66.
- High utilization of power,PF ≥ 0.9 .Wide range of input voltage:AC200-240V
- Compared with traditional ones,Energy-saving percentage: 60%.
- Service life over 50,000 hours.
- Follow RoHS and CE Certified.



Main Applications

- bars,restaurants,clubs,hotels,stages
- historical and modern buildings
- museums,art galleries
- sculptures and plastic arts



Photo



100W



150W



200W



1 LUX: Adjust the all day/night sensing mode
Clockwise rotation, sensing throughout the day; Twist counterclockwise, only sensed at night

2 TIME: Adjust delay time
Clockwise rotation increases the delay; Twist counterclockwise to shorten the delay

3 SENS: Adjust sensitivity
The greater the sensitivity, the farther the sensing distance, and vice versa





SOSEN LED Driver

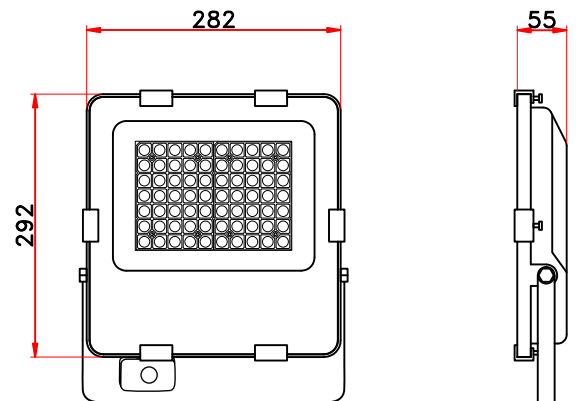


SMD2835 Leds

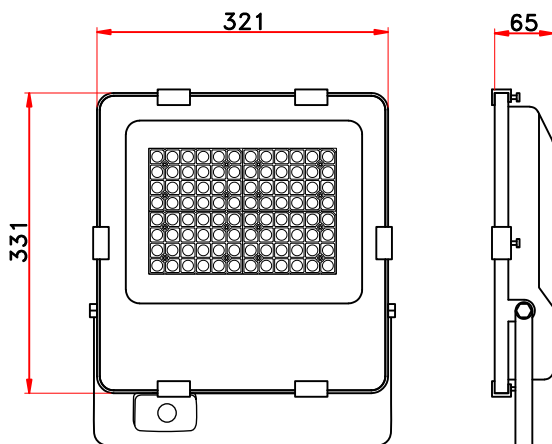


100W

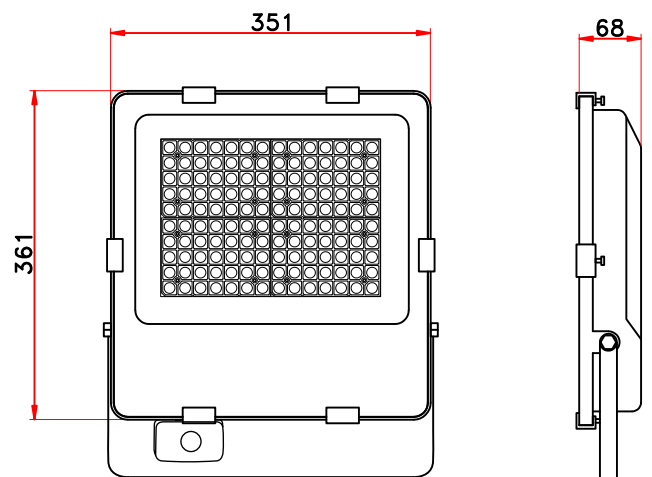
Dimensions(Unit:mm)



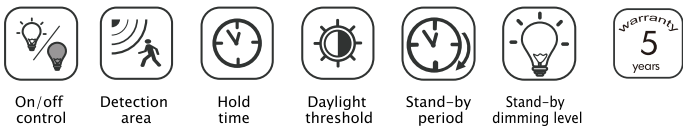
150W



200W



Technical Data of Sensor



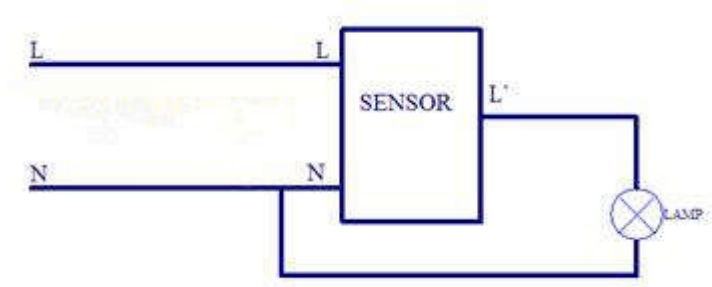
Power Source	220-240VAC
Power Frequency	50/60Hz
Rated load	MAX. 200W resistive load MAX.100W Inductive load
Detection Range	120°
Detection Distance	8±2.m(<24°C)(adjustable);
Hold time	10±5sec-8±2min. (adjustable)
Ambient Light	2-2000lux. (adjustable)
Detection Motion Speed	0.6-1.5m/s
Working TemperaturePower	-10°C--+40°C
Installation Height	1-3m
IP rating	IP65
Warranty	5 years

Factory default Settings: Adjust sensitivity :100%, time: hold time 5 seconds, illuminance gear: daytime (both day and night).



Connection diagram

- L: BROWN
- N: BLUE
- L': RED



Technical Data of Sensor

1. induction mode: The sensor power preheating about 15 seconds, into the induction mode. When the ambient light is lower than the light setting value (LUX), when there is a human body moving within the effective distance range (SENS), the sensor will light up after receiving the trigger signal of the moving human body, and the load light will turn off after a certain delay TIME (according to the actual setting value of time). The delay time will be recalculated after the sensor receives the trigger signal of the moving human body again during the delay time.

SENS: Sensitivity range that controls the sensing distance of the sensor when the knob is dialed. The sensor sensing distance is maximum when it reaches the "+" sign. When the knob dials "-", the sensor sensing distance is the smallest when it reaches the "-" sign.

TIME: Time gear, control the sensor delay time, when the knob is turned to "+", it indicates the maximum sensor delay time. When the knob is turned to "-", the sensor delay time is the minimum.

LUX: Illuminance gear, control the load light on the ambient light, when the knob is turned to the "sun" position, the sensor is daytime, sensor works. During the day and night, the load light is lit after sensing the trigger signal of human movement. When the knob is turned to the "moon" position, it represents the night shift: the sensor is in night mode. When the trigger signal of human movement is sensed at night, the load light is on, and the sensor does not work during the day.

2. long bright lock mode: in the energized infrared induction mode can be switched to long bright lock mode.

Test method

1. Connect the brown line to the live line, the blue line to the neutral line, and the blue line and red line to the output load according to the wiring diagram.

2. Induction mode: After the sensor is energized and preheated for about 15 seconds, enter the induction mode, and set the ambient light of the dimmer lower than the setting LUX. When the effective distance is set within the SENS range, the load light will turn off after the sensor receives the trigger signal of human movement.

3. Long bright lock mode: In the energized infrared induction mode, turn off the power once within 3 seconds, switch to the long bright lock mode, and light (load) turns on. After 15S, turn off the light (load off), and then enter the long light state (load on). After the sensor is turned off for more than 10 seconds, the power is turned on again and the infrared induction mode is switched back.

Note: The induction distance and induction Angle of the sensor are affected by the current ambient temperature and humidity, installation height, etc., and there will be certain errors.

Technical Data of Sensor

1. infrared induction mode: the factory is initially set to infrared induction mode, the LUX file is adjusted to the daytime, and the moving human body is lit up during the day and night; Switch to the night, people do not feel during the day, and feel the moving human body light at night.
2. long bright lock mode: in the energized infrared induction mode can be switched to long bright lock mode.

Test method

1. According to the wiring diagram, connect the brown line to the live line, the blue line to the neutral line, and the red line and the blue line to the output load.
2. infrared induction mode: the infrared sensor enters the infrared induction mode after the first power on.

The LUX shift adjusts the ambient light that the sensor load turns on (lights on). When the knob is turned toward the sun position, the load will turn on during the day, and when the knob is turned toward the moon position, it will turn on only at night.

The TIME file adjusts the working delay time of the sensor. When the knob indicates the rotation to the + position, the delay time is up to $7\text{min} \pm 2\text{min}$, and the time is up to the - position The minimum delay time is $10\text{sec} \pm 5\text{sec}$.

The SENS gear adjusts the sensor sensing distance. When the knob is indicated to turn to the + position, the distance is the farthest; when it is turned to the - position, the distance is the shortest.

3. long bright lock mode: in the energized infrared induction mode, turn off the power once within 2-3 seconds, switch to the long bright lock mode, the induction light has been kept long bright (load on). Turn off the sensor power for more than 10 seconds, turn on the power again, and switch back to the infrared induction mode (long light function plus this).

Electrical/Optical Characteristics/Specifications

MODEL:STG-100W-230V

Input Voltage	Max.Current	Operating Voltage	Constant Current		Power Consumption	Power Factor
AC200-240V	0.5A	DC210V	0.42A		100W	≥0.95
LED Type	LED Q'ty	CRI	CCT	2900-3100K	4000-4500K	5500-6000K
			Luminous efficiency	140LM/W	150LM/W	150LM/W
SMD2835	140PCS	≥80Ra	Luminous flux	14000LM	15000LM	15000LM
			Beam Angle	90°		
Life Time	Certifications	IP Code	Luminaires Class		product dimension	N.W
50.000Hours	CE,RoHS	IP66	Class I		L282*W55*H292mm	2.5Kg
Operating Temperature	Storage Temperature	Humidity Operating	Humidity Storage		Packing dimension	G.W
-20℃to+55℃	-30℃to+55℃	10-80%RH	10-90%RH		L328*W75*H380mm	2.7Kg
Outer carton package	5*1layer=5PCS/carton,K=K corrugated paper, L395*W345*H400mm,GW:15.3KG					

MODEL:STG-150W-230V

Input Voltage	Max.Current	Operating Voltage	Constant Current	Power Consumption	Power Factor	
AC200-240V	0.75A	DC228V	0.6A	150W	≥0.95	
LED Type	LED Q'ty	CRI	CCT	2900-3100K	4000-4500K	5500-6000K
			Luminous efficiency	140LM/W	150LM/W	150LM/W
SMD2835	192PCS	≥80Ra	Luminous flux	21000LM	22500LM	22500LM
			Beam Angle	90°		
Life Time	Certifications	IP Code	Luminaires Class	product dimension	N.W	
50.000Hours	CE,RoHS	IP66	Class I	L321*W65*H331mm	3.5Kg	
Operating Temperature	Storage Temperature	Humidity Operating	Humidity Storage	Packing dimension	G.W	
-20℃to+55℃	-30℃to+55℃	10-80%RH	10-90%RH	L368*W83*H420mm	3.7Kg	
Outer carton package	5*1layer=5PCS/carton,K=K corrugated paper, L435*W385*H440mm,GW:20.4KG					

Electrical/Optical Characteristics/Specifications

MODEL:STG-200W-230V

Input Voltage	Max.Current	Operating Voltage	Constant Current	Power Consumption	Power Factor	
AC200-240V	1.0A	DC210V	0.85A	200W	≥0.95	
LED Type	LED Q'ty	CRI	CCT	2900-3100K	4000-4500K	5500-6000K
			Luminous efficiency	140LM/W	150LM/W	150LM/W
			Luminous flux	28000LM	30000LM	30000LM
			Beam Angle	90°		
Life Time	Certifications	IP Code	Luminaires Class	product dimension	N.W	
50.000Hours	CE,RoHS	IP66	Class I	L351*W68*H361mm	4.0Kg	
Operating Temperature	Storage Temperature	Humidity Operating	Humidity Storage	Packing dimension	G.W	
-20℃to+55℃	-30℃to+55℃	10-80%RH	10-90%RH	L398*W85*H445mm	4.2Kg	
Outer carton package	4*1layer=4PCS/carton,K=K corrugated paper, L415*W360*H465mm,GW:19.1KG					

Notice

Installation information:

Power must be cut off before installation, fix it on the position of installation holes, connection of the power supply must be sealed.

1.Please read the specification first, to make sure the service environment matches the condition in the specification before using.

2.Please confirm the applicable power supply before using.

3.Make sure the switch of product is off before connect to the power supply to prevent electric shock.

4.Operation against rules may damage your property even harm to your personal safety.

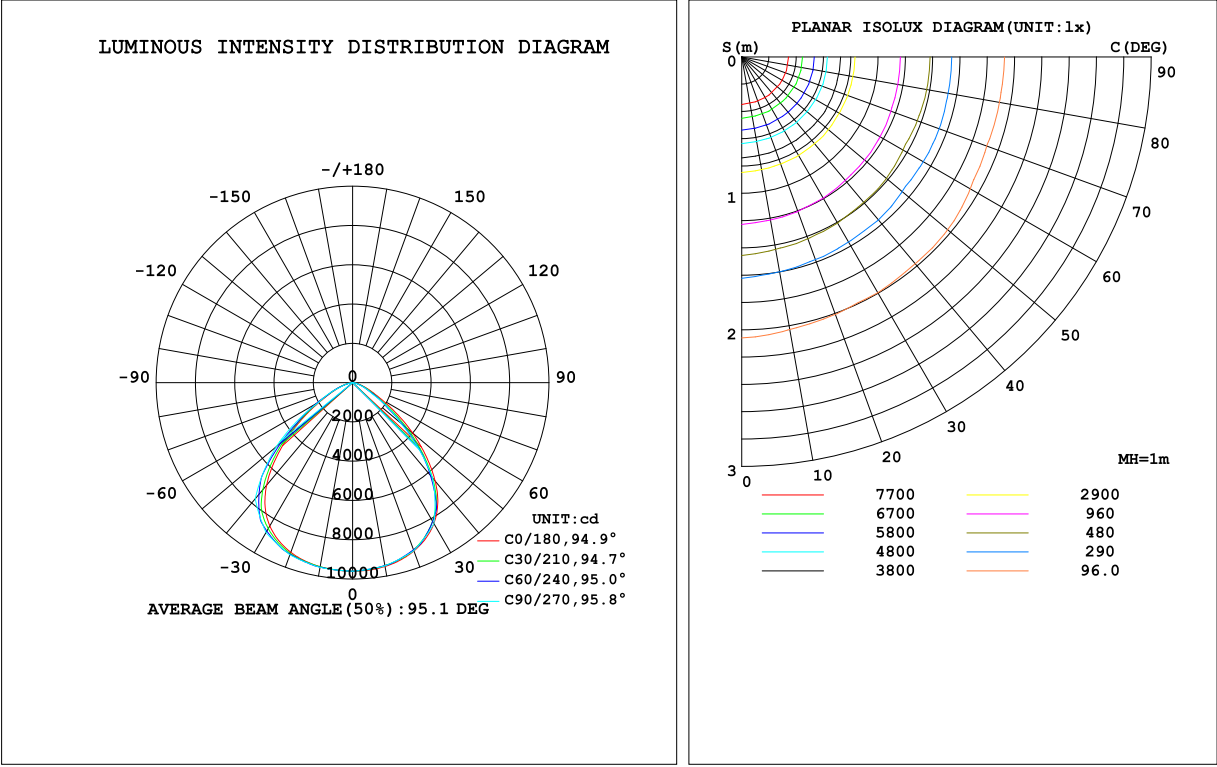
5.Preliminarily estimate required quantity of flood lights, then according to the power rating of single flood light to figure out the total power and design power supply plan.

6.Dangerous high voltage, Non-professionals are not allowed to maintain the products.

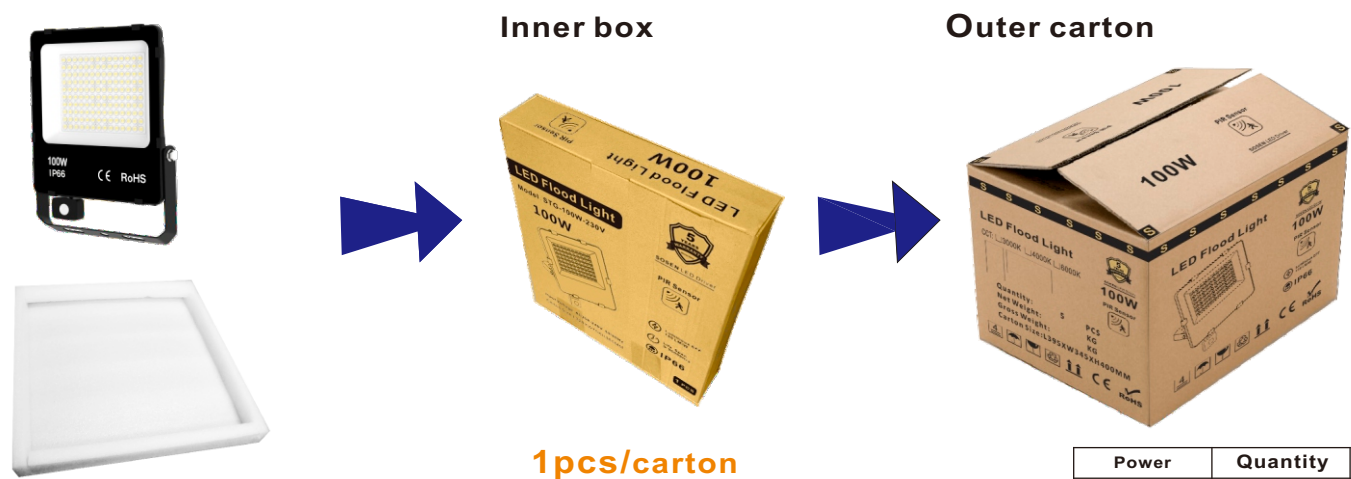
If the exterior flexible cable or wire is damaged, it must exchange by the supplier, its agent or other similar qualified personnels to avoid dangers.

Test report

150W



Packing Info



- Cautions:
- 1.This product must be installed by professionals;
 - 2.If there is any damage on the power line or shell, it should be taken as defective product and should not be used;
 - 3.High voltage, non-professionals are not allowed to install, disassemble the product or connect wires.

Power	Quantity
100W	5pcs/carton
150W	5pcs/carton
200W	4pcs/carton

Notes:

1. Please always use the light out of its package.
2. Before starting use of the light, please check if the light was damaged during transportation. If any damage shown, please DO not install or use it.
3. Any maintenance should be performed by trained professionals only.
4. Keep packaging material away from the reach of children and pets. Risk of suffocation!
5. Caution. The packaging contains small parts that may be swallowed by children.
6. Never leave children unattended in the vicinity of the lights and do not allow them to play with electrical devices.
7. Try to avoid looking directly in the LED beam-especially for extended periods of time. Do not shine the LED light in another person's eyes.
8. Never cover the lights by other objects.
9. Never allow the light to come into contact with open flames or external heat sources.
10. The products need to re-repair inspection or special treatment of retirement after service time
11. Non-professionals are not allowed to disassemble and maintain the products. We have the right not to provide after-slae service if unauthorized disassembly and maintenance happens to the products.