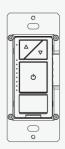


User Instructions

Suitable for DIMMABLE LED, CFL, Incandescent and halogen bulbs



| Voltage | 120V~ | |
|------------------------|----------------------------|--|
| Frequency | 60Hz | |
| Wattage | 600W | |
| Load Range | Incandescent:15W-600W | |
| | LED/CFL:3W-200W | |
| Dimming Method | Phase-cut | |
| Working Environment | Temperature: 0°C -40°C | |
| | Humidity: 10% R.H 90% R.H. | |
| Model Size | 105 mm×44 mm×35mm (L×W×H) | |

WARINGS AND CAUTIONS

- 1.1 To avoid risk of fire and electrical shock, the dimmer should be installed in accordance with appropriate electrical codes and regulations.
- **1.2** This product should be use with air switch.
- 1.3 Turn power off at circuit breaker or fuse and test that power is off before installing.
- **1.4** After install the dimmer, it is recommended to set the minimum brightness level to make bulbs turn on immediately.
- **1.5** If you are unsure about any part of these instructions, consult a licensed electrician.
- **1.6** To reduce the risk of overheating and possible damage to other equipment, do not install to control a receptacle, a motor-operated appliance or a transformer-supplied appliance.

- 1.7 Use with compatible dimmable LED, dimmable CFL bulbs, Incandescent and halogen bulbs only
- 1.8 When multiple bulbs are used with one dimmer DO NOT mix bulb types. All bulbs shall be either LED, CFL or incandescent. Using the same model of each bulb will enhance dimmer performance.
- **1.9** Optimum installation height: 3.94ft.

FCC Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

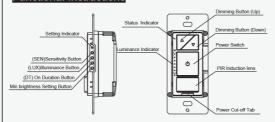
(1) This device may not cause harmful interference, and (2)this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or 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.

Functional Instructions



Short press: Within 0.5s Long press: Over 0.5s

Continuous short press: Each interval of short press should within 1s

Note: During the PIR switch detect automatically, The PIR will start to detect after 10s of manually turning on and off the light.

Factory default

Setting on the max. brightness when turn on

Autonomously PIR detects/High PIR sensitivity/High PIR illumination/On duration time 1min.

PIR Automatic Detection Or Manual Control

Long press the power button can switching.

PIR Automatic Detection:

The status indicator will turn to white light then flash two times.

Manual Control:

The status indicator will turn to red light then flash two times.

Manual Control

Power Switch

Turn on: Short press the power switch once and the status indicator keep white light.

Turn off: Short press the power switch once and the status indicator keep red light.

Min. brightness setting: Turn the light to ideal min.brightness and short press the power button for 6 times when in ON.

Max. brightness setting: Turn the light to ideal max. brightness and

short press the power button for 8 times when in ON.
Clear min. and max. brightness setting: Continuous short press the

Clear min. and max. brightness setting: Continuous short press the power button 9 times when in ON.

Restore factory setting: Short press the power button for 10 times, the status indicator blinks white 3 times.

Dimming Button (UP)

Quick to min brightness:

Short press the dimming button twice when in on/off.

Short press the dimming button(up) once can increase a level of brightness when in ON status.

Long press the dimming button(up) can increase the brightness continuously until release or reach the max. brightness.

Dimming Button (Down)

Dimming to min. brightness quickly:Short press the dimming button 2 times continuously when the light is in - ON/OFF status.

Decrease the brightness: Short press the dimming button once can decrease a level of brightness when the light is in ON status.

Decrease the brightness continuously:Long press the dimming button

can continuous to decrease the brightness until release or reach the minimum brightness.

PIR Automatic Detection

Note: Turn manually off the lamp and wait about 10s before PIR automatic detection work under mode of PIR automatic detection.

PIR detects the signal of human body can automatically turn on the light, and status indicator keep white light.

The lamp will be turned off automatically and the status indicator will keep red when on duration time is reached.

PIR Sensitivity Setting

(SEN: PIR Sensitivity Setting button) PIR Sensitivity has low, middle and high level:short press the PIR Sensitivity Setting button to set the indicator (No operation for more than 5 seconds, the indicator will light off).

- low:The red light on;
- 2) Middle: The green light on;
- (3) High: The blue light on (default setting).

PIR illuminance Setting

(LUX: PIR illuminance Setting button)PIR illuminance has low, middle and high level:short press the PIR illuminance Setting button to set the indicator to indicate (No operation for more than 5 seconds, the indicator will light off).

- low:The red light on;
- Middle: The green light on;
- 3 High: The blue light on (default setting).

Lamp Duration Setting

(DT: Setting button of lighting time) the lighting time has 4 mode:1min、5min、15min、and light control to choose: short press the Setting button of lighting time to set the indicator to indicate (No operation for more than 5 seconds, the indicator will light off).

- 1min:The red light on(default setting);
- 5min:The green light on
- 3 15min:The blue light on
- 4 Light control mode: The yellow light on.

Light-control Mode

Short press the DT button until the status indicator turn to yellow when in PIR automatic detection.

Turn on: When the ambient illumination is detected to be lower than the setting, the status indicator keeps the white light on. When the ambient illumination is detected higher than the setting, the status indicator keep red light on.

PIR illuminance Setting

(LUX: PIR illuminance Setting button)PIR illuminance has low, middle and high level:short press the PIR illuminance Setting button to set the indicator to indicate (No operation for more than 5 seconds, setting indicator will light off).

- low:The red light on;
- ② Middle: The green light on;
- High: The blue light on (default setting)

Note:

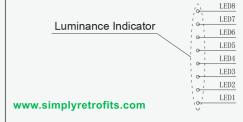
Light control mode: When the ambient illumination is lower than the setting, the load light will be on; When the ambient illumination is higher than the setting, the load light will be off.

Power cut-off Tab

Put in the power cut-off tab to power on.

Put out the power cut-off tab to power off.

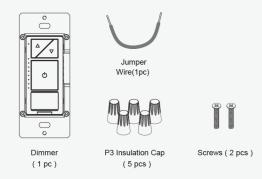
Luminance Indicator



Luminance indicator

| Item | Luminance Level | Luminance Indicator |
|------|-----------------|-------------------------|
| 1 | Luminance 1~2 | LED 1 normally on |
| 2 | Luminance 3~4 | LED 1~LED 2 normally on |
| 3 | Luminance 5~6 | LED 1~LED 3 normally on |
| 4 | Luminance 7~8 | LED 1~LED 4 normally on |
| 5 | Luminance 9~10 | LED 1~LED 5 normally on |
| 6 | Luminance 11~12 | LED 1~LED 6 normally on |
| 7 | Luminance 13~14 | LED 1~LED 7 normally on |
| 8 | Luminance 15~16 | LED 1~LED 8 normally on |
| | | |

Accessories



Tools needed to install

| Ø 5mmCross screwdriver | Test Pencil |
|------------------------|-------------|
| Electrical tape | Pliers |
| The Electrician Knife | Ruler |

4.Installation

4.1 △WARNING: To avoid fire and electrical shock, turn off power at circuit breaker or fuse and test that power is off before wiring.

4.2 Remove the screws installed on the existing panel and switch, carefully pull out the switch from the wall box, identify and remove the power cord attached to the switch, and the switch, do not remove the power cord detached from the switch. (This step is not required for new configuration installation.)

4.3 Identify Location 1 cord type

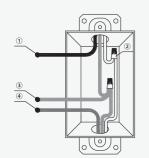
Note: If the power cord in the wall box is different from the following layouts, please consult an electrician.

Single-Pole

①Line (Hot) ②Neutral

(3)Ground

(4)Load



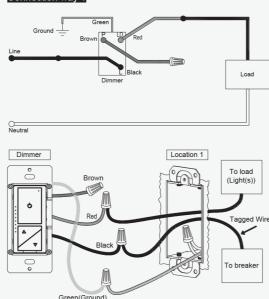
3-Way ①Line or Load (See note below) ②Neutral ③Ground ④Traveler 1 ⑤Traveler 2

IMPORTANT Please note that for 3-way application, there is a power cord from the original switch be a different color (Black) or marked Common. Finding this power cord from both the dimmer's junction box and 3-way junction box, then marking it as common (live or load).

4.4 Typical wiring application

4.4.1 Single-Pole

Connection way 1



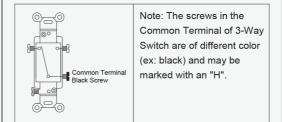
Location 1 Connection:

- Connect the green wire on the dimmer with the green or bare copper ground wire on the wall box, and tighten it with the P3 wiring nut.
- Connect the black wire to the live wire of circuit breaker, and tighten it with the P3 wiring nut.
- Connect the red wire on the dimmer with the load wire, and tighten it with the P3 wiring nut.
- Screw the remaining brown wire on the dimmer with the P3 wiring nut to protect it.

4.4.2 3-Way

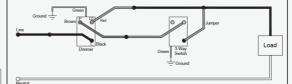
3-Way (3-Way Switch)

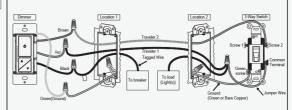
Note: When in 3-Way connection, marking the two ends of Traveler 1 and Traveler 2 cables clearly at Location 1 and Location 2 to prevent connection errors.



Dimmer Line Side

Connection way 2





Location 1 Connection:

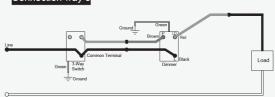
- Connect the green wire on the dimmer with the green or bare copper ground wire on the wall box and tighten it with p3 wiring nut.
- Connect the black wire on the dimmer to the labeled wire (the live wire of circuit breaker), and tighten it with p3 wire nut.
- Connect the brown wire on the dimmer to Traveler 2 and tighten it with p3 wiring nut.
- Connect the red wire on the dimmer to Traveler 1 and tighten it with p3 wiring nut.

Location 2 Connection:

- Connect the Traveler 2 to Screw 1 or Screw 2 on the 3-way Switch.
- Connect the 3-way Switch's Common Terminal to the Jumper wire. Traveler 1 is connected to the Jumper wire and load wire of circuit breaker and tighten it with p3 wiring nut.

Dimmer Load Side

Connection way 3



Count (Corenor of Banc Copper)

Count (Corenor of Banc Copper)

Count (Corenor of Banc Copper)

Location 1 Connection:

- Connect the Traveler 2 to Screw 1 or Screw 2 on the way Switch.
- Connect the 3-way Switch's Common Terminal to the Jumper wire. Traveler 1 is connected to the Jumper wire and the live wire of circuit breaker, and tighten it with p3 wiring nut.

Location 2 Connection:

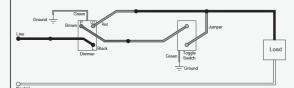
- Connect the green wire on the dimmer to the green or bare copper ground wire on the wall box, and tighten it with p3 wiring nut.
- Connect the black wire on the dimmer to Traveler 1 and tighten with p3 wiring nut.
- Connect the brown wire on the dimmer to Traveler 2 and tighten with p3 wiring nut.
- Connect the red wire on the dimmer with the labeled wire (Load Wire) and tighten with p3 wiring nut.

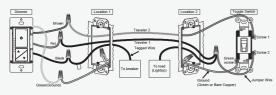
3-Way (Toggle Switch)

Note: When in 3-Way connection, marking the two ends of Traveler 1 and Traveler 2 cables clearly at Location 1 and Location 2 to prevent connection errors.

Dimmer Line Side

Connection way 4





Location 1 Connection:

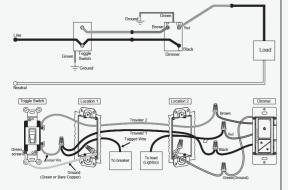
- Connect the green wire on the dimmer to the green or bare copper ground wire on the wall box, and tighten it with p3 wiring nut.
- Connect the black wire to the labeled wire(live wire of circuit breaker), and tighten it with the P3 wiring nut.
- Connect the brown wire on the dimmer to Traveler 2 and tighten it with p3 wiring nut.
- Connect the red wire on the dimmer to Traveler 1 and tighten it with p3 wiring nut.

Location 2 Connection:

- Connect the Traveler 2 to Screw 1 on the Toggle Switch.
- Connect the Screw 2 on the Toggle Switch to the Jumper wire. Traveler 1 is connected to the Jumper wire and the Load Wire, tighten it with p3 wiring nut.

Dimmer Load Side

Connection way 5



Location 1 Connection:

- Connect the Traveler 2 to Screw 1 on the Toggle Switch
- Connect the Screw 2 on the Toggle Switch to the Jumper wire. Traveler 1 is connected to the Jumper wire and the live Wire of circuit breaker, tighten it with p3 wiring nut.

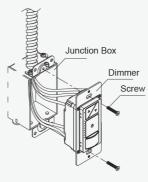
Location 2 Connection:

- Connect the green wire on the dimmer to the green or bare copper ground wire on the wall box, and tighten with p3 wiring nut.
- Connect the black wire on the dimmer to Traveler 1 and tighten it with p3 wiring nut.

- Connect the brown wire on the dimmer to Traveler 2 and tighten it with p3 wiring nut.
 - Connect the red wire on the dimmer to the labeled wire(Load Wire) and tighten it with p3 wiring nut.

4.5.1 Installing dimmer

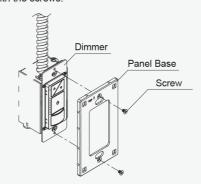
Carefully position all wires inside the wall-box, leaving enough space to insert the dimmer. Secure the dimmer with the provided mounting screws.



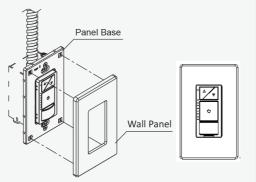
4.5.2 Install panel

4.5.2a split panel

 Installing the panel base on the dimmer and tighten with the screws.

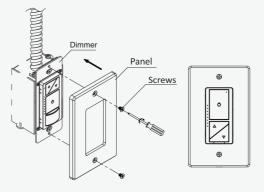


Put the panel and panel base together, press gently to make sure it is be installed firmly.



4.5.2b Integrated panel

• Installing the panel on the dimmer and tighten with the screws



5. User Instructions

Function Declaration

Short press: Within 0.5s Long press: Over 0.5s

Continuous short press:Each interval of short press should within 1s

| Function | Operation |
|--|--|
| Factory default setting | The light is on maximum brightness status. PIR automatic detection; high PIR sensitivity, high PIR illumination, 1min lighting time. |
| PIR automatic detection and manual control to toggle | Long press the power button to toggle; when PIR detect automatically , the white light flashes 2 times; when in manual control, the red light flashes 2 times. |
| Manual control | Power button Turn on the light: When the light is off, short press the power button once, the status indicator lights white constantly. Turn off the light: When the light is on, short press the power button once, the status indicator lights red constantly. Min. brightness setting:Turn the light to ideal min.brightness when the light is on,then short press the power button for 6 times. Max. brightness setting:Turn the light to ideal max.brightness when the light is on,then short press the power button for 8 times. Clear min.and max. brightness Setting: Continuous short press the power button 9 |
| | Restore to factory setting: Short press the power button for 10 times, the status indicator blinks white 3 times . |

Dimming Button (UP)

- · Dimming to max. brightness quickly: Short press the dimming button 2 times continuously when the light is in - ON/OFF
- Increase the brightness: Short press the dimming button once can increase a level of brightness when the light is in ON status. Increase the brightness continuously:Long
- press the dimming button can continuous to increase the brightness until release or reach the maximum brightness.

Dimming Button (Down)

- Dimming to min. brightness quickly:Short press the dimming button 2 times continuously when the light is in - ON/OFF
- Decrease the brightness: Short press the dimming button once can decrease a level of brightness when the light is in ON status
- Decrease the brightness continuously:Long press the dimming button can continuous to decrease the brightness until release or reach the minimum brightness
- · After the PIR detects the infrared signal of human body, the light will be turned on automatically and the status indicator lights white constantly; after reaching to the light setting time, the light will be turned off automatically and the status indicator lights red constantly.

PIR Sensitivity Setting

 (SEN:PIR Sensitivity Setting button) PIR Sensitivity has low. middle and high level short press the PIR PIR automatic Sensitivity Setting

detection

- 1 low: The red light 2 Middle: The green
- light on;
- 3 High:The blue light on(default setting)

than 5s, indicator PIR illuminance Setting • (LUX PIR illuminance

hutton to set the

indicator to indicate

(No operation for more

than 5 seconds, setting

indicator will light off).

button to set the

indicator to indicate

(No operation for more

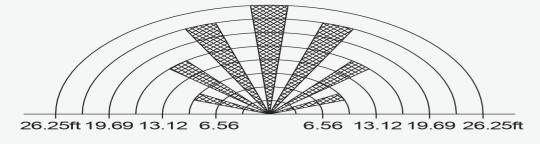
- Setting button)PIR illuminance has low, ① low:The red light middle and high level: short press the PIR 2 Middle: The illuminance Setting green light on;

 - 3 High:The blue light on(default setting).

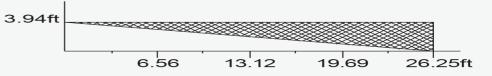
| | Lighting time setting | |
|---|---|-----------------------|
| | (DT: lightingtime setting | ① 1min:The red |
| | button) The lighting time | light on(default |
| | have 1min、5min、15min | setting); |
| | and light-control mode to | ② 5min:The green |
| | choose:short press the | light on; |
| | lighting time Setting button | ③ 15min:The blue |
| | to set the indicator to indicate | light on; |
| | (No operation for more than | ④ Light-control:The |
| | 5 seconds, setting indicator | yellow light on; |
| | will light off). | |
| Short press the DT button(lighting time S | | |
| | button) until the setting in | dicator turning to |
| | yellow when in PIR auton | natic detection mode. |
| | Turn on: When the ambient illumination is | |
| | detected to be lower than the setting, the | |
| Light-control | status indicator keeps the white light on. When the ambient illumination is detected | |
| mode | | |
| | higher than the setting, the status indicator | |
| | keeps red light on. | |
| | PIR illuminance setting | |
| | (LUX: PIR illuminance) | |
| | Setting button)PIR | |
| | illuminance has low, | ① low:The red light |
| | middle and high level: | on; |
| | short press the PIR | ② Middle:The green |
| | illuminance Setting | light on; |
| | button to set the | ③ High:The blue |
| | indicator to indicate | light on(default |
| | (No operation for | · ` ` |
| | more than 5 seconds, | setting). |
| | · · · | |
| | the setting indicator | |
| | will light off). | |
| Power on/off | Power on: Insert the pov | |
| | Power off: pull out the power cut-off switch. | |

Detection Zone

Optimum mounting height:3.94ft.



Max Horizontal detection range



Max Vertical detection range

Troubleshooting

| Problems | Possible Cause | Solution |
|-----------------------|-------------------------|-------------------------|
| | Bad connection | Reconnect and |
| | Bad connection | Connect the wires. |
| | Mixed use different | |
| | types of lights, | Try the same type |
| Lights | interference, resulting | again. |
| flickering | in flickering | |
| | | Pull the power cut-off |
| | abnormal | button out, cut off the |
| | | electricity. Then try |
| | | again. |
| LED and CFL | | |
| flickers at low | | Turn up lamp minimum |
| end of | Bad compatibility | brightness properly. |
| dimming | | brightness property. |
| range. | | |
| | Circuit breaker has | Turn power on. |
| Lights can't be | tripped | Turri power orr. |
| turned on | Fuse burn out | Change fuse. |
| | Lamp burned out | Change lamp. |
| | Bad connection | Check the connection. |
| Lights out of control | Abnormal | Pull the power cut-off |
| | | button out, cut off the |
| | | electricity. Then try |
| | | again. |