ONFORU®

Solar Powered Security Light

Product Manual

MODEL: BDTYBP10Z

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SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

This product is solar powered. The solar panel should be installed on the position with direct sunlight for the longest time.

This product is not a toy. Do not let children play it as a toy.

This product has not been used for a long time. When used again, it needs to be charged by sunlight before it can be used.

Regularly wipe the surface of the solar panel with a dry towel. Dust and stains on the surface will affect the charging of the solar panel.

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SAFETY INSTRUCTIONS

This product has a built in battery. Do not directly burn the damaged product with fire.

This product is operated by battery. Keep it away from high temperature objects when using, especially the environments with temperatures higher than 85°C (185°F).

Please do not use this product in a corrosive gas or humid environment.

The motion light can be mounted indoors, but the solar panel must be installed outdoors to receive light from the sun.

To reduce the risk of strangulation, the flexible wiring connected to this luminaire shall be effectively fixed to the wall if the wiring is within arm's reach.
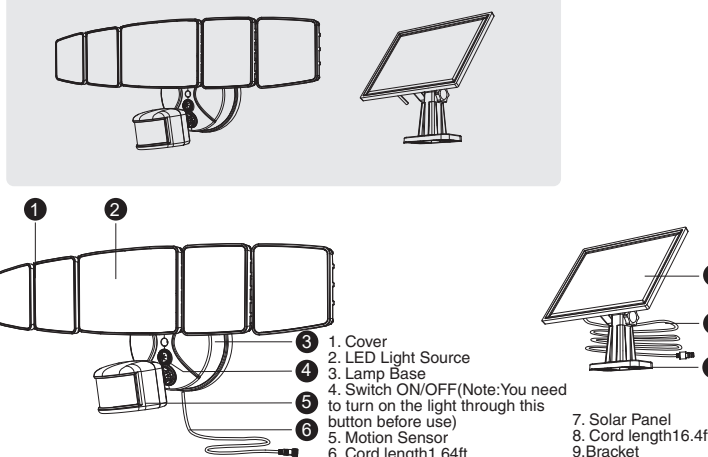
Dispose of the lithium in battery in accordance with local, state and federal regulations.
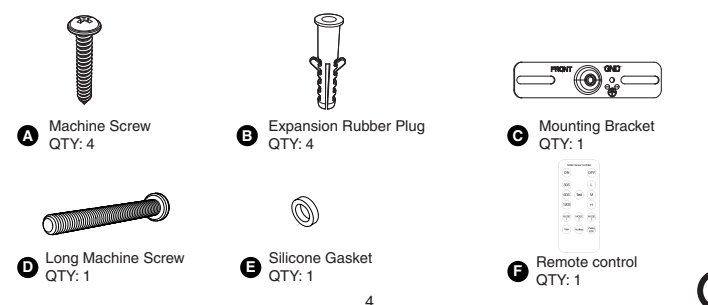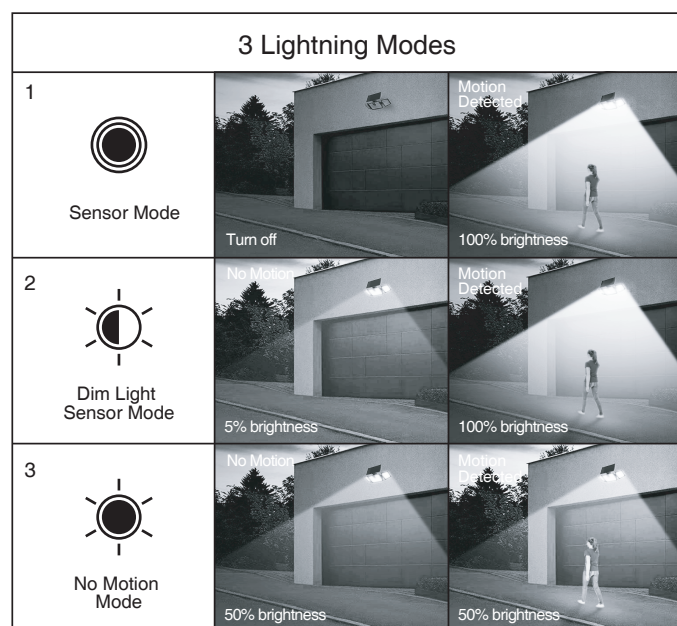
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COMPONENTS AND STRUCTURE

BDTYBP10Z

1. Cover
2. LED Light Source
3. Lamp Base
4. Switch ON/OFF(Note:You need to turn on the light through this button before use)
5. Motion Sensor
6. Cord length1.64ft
7. Solar Panel
8. Cord length16.4ft
9.Bracket

PARTS LIST

A Machine Screw QTY: 4
B Expansion Rubber Plug QTY: 4
C Mounting Bracket QTY: 1
D Long Machine Screw QTY: 1
E Silicone Gasket QTY: 1
F Remote control QTY: 1

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SPECIFICATIONS

Solar Powered Security Light	
Model	BDTYBP10Z
Input Voltage	3.6V
Input Current	2.8A
Rated Power	10W
CCT	6500K
CRI	≥80
Li-ion Battery	3.7V 1500mA*2
Beam Angle	120°
t_a	-20-40°C/-4°F-104°F
Luminaire Location	SUITABLE FOR WET LOCATIONS
DIMENSIONS	
Model	BDTYBP10Z
Dimensions (LxHxW)	Light:420x187x140mm/16.54x7.36x5.51 in Solar Panel: 175x110x138mm / 6.89x4.33x5.43 in
Weight	Light: 0.82kg/1.81 lb Solar Panel: 0.32 kg / 0.71 lb

Note:
The testing standard of the product's luminous flux:Place the three/two lights on the same horizontal surface for testing, and the tested luminous flux is the accurate luminous flux.

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LIGHTNING MODES

3 Lightning Modes

1. Sensor Mode — Turn off / 100% brightness — Motion Detected
2. Dim Light Sensor Mode — 5% brightness / 100% brightness — No Motion / Motion Detected
3. No Motion Mode — 50% brightness / 50% brightness — No Motion / Motion Detected

Lightning Modes

1. Motion Sensing Mode One: When a person passes, the light, turns on at 100% brightness. Sensing delay 30S after the person left,the light turns off.

2. Motion Sensing Mode Two: When a person passes, the light turns on at 100% brightness. Sensing delay 30S after the person left, the light is always bright at 5% brightness.

3. No motion mode: The default brightness is 50%.

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REMOTE CONTROL OPERATION

1. ON; 2. OFF;
3. Sensing delay 30S 60S 120S
4. Test mode: It is for testing the sensing distance and sensing angle of the light.When the light is in the test mode, it will is in sensing mode both day and night, and the sensing delay is 5 seconds.
5. Sensing distance adjustment
Press L: Detection distance is 13-26ft
Press M: Detection distance is 26-49ft
Press H: Detection distance is 49-72ft
Note:The above sensing distance applies at an angle between the sensor and the horizontal plane between 0 and 45 degrees.
6. 3 Lightning Modes
• Motion Sensing Mode One: When a person passes, the light, turns on at 100% brightness. Sensing delay 30S after the person left,the light turns off.
Note: If you want to extend the sensing time, press MODE1 first, then press 60S for a delay sensing time of 60 seconds; press MODE1 first, then press 120S for a delay sensing time of 120 seconds.
• Motion Sensing Mode Two: When a person passes, the light turns on at 100% brightness. Sensing delay 30S after the person left, the light is always bright at 5% brightness.
Note: If you want to extend the sensing time, press MODE2 first, then press 60S for a delay sensing time of 60 seconds; press MODE2 first, then press 120S for a delay sensing time of 120 seconds.
• No motion mode: The default brightness is 50%.
Note: When switching the 3 lighting modes, the light flashs twice to indicate that the switching is successful.
7. Networking Function
Networking Function Steps
1. M (main) : Start to pair
Press M, the main light waits to be paired, and flashes fast. (0.8S/cycle)
Note: The light that accepts the command of the remote control will be used as the main light.
2. A (auxiliary): Auxiliary pairing
Press A, the auxiliary light waits to be paired.
The pairing is successful, the light flashes 3 times and then goes out. (About 0.8S/cycle)
The pairing is unsuccessful, the light flashes slowly to maintain the search state. (About 2S/cycle)
3. Press M towards the main light, and it stops to flash. The networking completed.
Exit networking settings
E: Pairing ESC
Press E once for the light that needs to be unpaired, the light will exit the pairing mode.
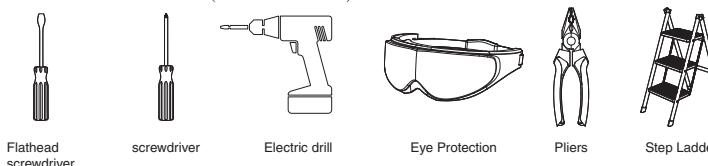

Motion Sensor Controller
1 / 2
ON / OFF
30S / L
60S / Test / M
120S / H
MODE 1 / MODE 2 / MODE 3
Main / Auxiliary / Pairing ESC

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PREPARATION

NOTE:
Before beginning assembly of product, make sure all parts are present. Compare parts with parts list. If any part is missing or damaged, do not attempt to assemble the product.
Estimated Assembly Time: 20-30 minutes.

TOOLS REQUIRED (not included)



Flathead screwdriver / screwdriver / Electric drill / Eye Protection / Pliers / Step Ladder

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1. Install the solar panel

NOTE: Make sure your solar panel is placed in a sunny location, and be aware of objects such as trees or overhangs from your property that may block the panel from receiving sunlight.

1.1 Loosen the screws counterclockwise and adjust the angle of the bracket.
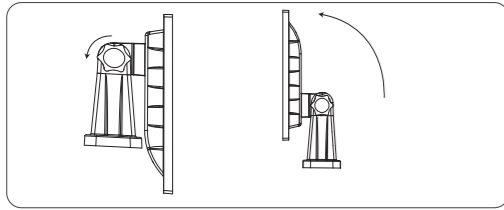
1.2 Drill 2 holes in the selected mounting surface and fix the solar panel to the wall with the plastic expansion rubber plugs and screws.

NOTE: Please measure and determine the distance and size of the holes before drilling.

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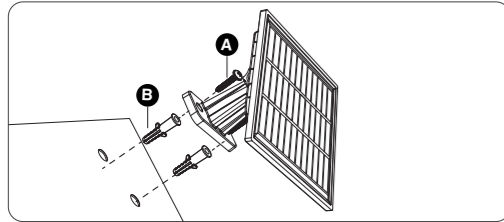
1.3 Adjust the position of the solar panel and tighten the screws clockwise.

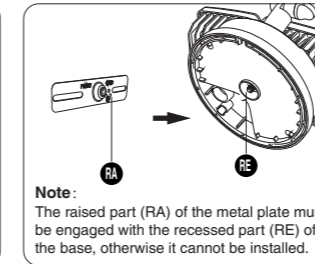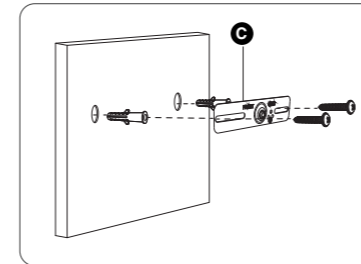**Note: Install the solar panel in the sunniest location, that is, the best place is facing south.**


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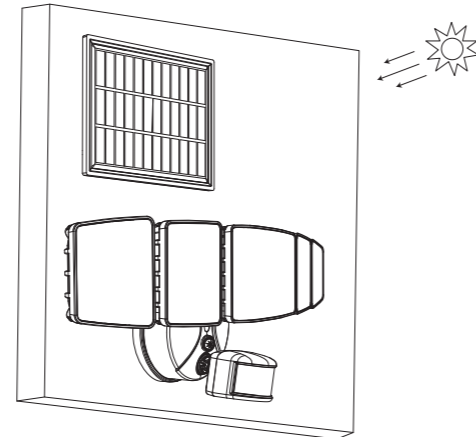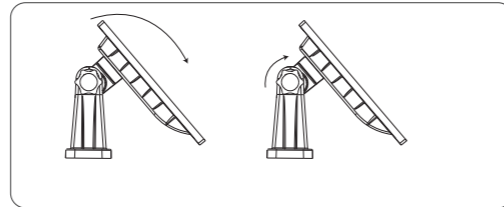
2. Install the light

2.1 Drill 2 holes in the wall and fix the metal plate to the wall with the plastic expansion tubes and screws.

Note: Please measure and determine the distance and size of the holes before drilling.

Note:
The raised part (RA) of the metal plate must be engaged with the recessed part (RE) of the base, otherwise it cannot be installed.

2.2 Insert the long screw into the light base hole, tighten the screw to the metal plate with a screwdriver to make sure the light is firmly fixed.


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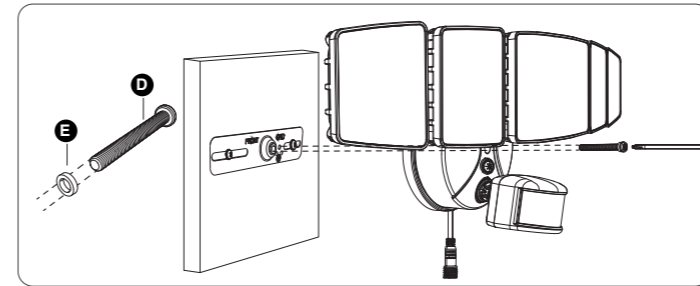
2.3 Connect the light and the solar panel

Connect the light and the solar panel, insert the male and female connectors with the arrows aligned as shown in the diagram, then tighten the waterproof cap.
NOTE: Inserting the connectors without the arrows aligned will burn out the light.

Note: From time to time, make sure that the plug between the solar panel and the light is securely connected.
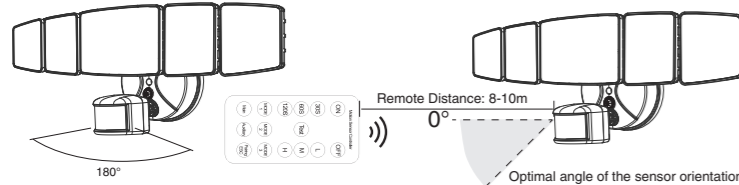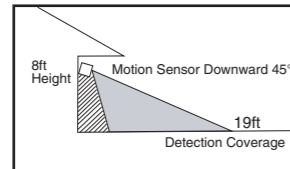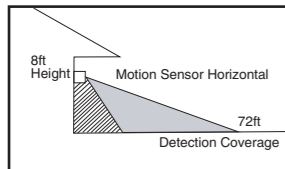
Note: You need to turn on the light through this button before use.
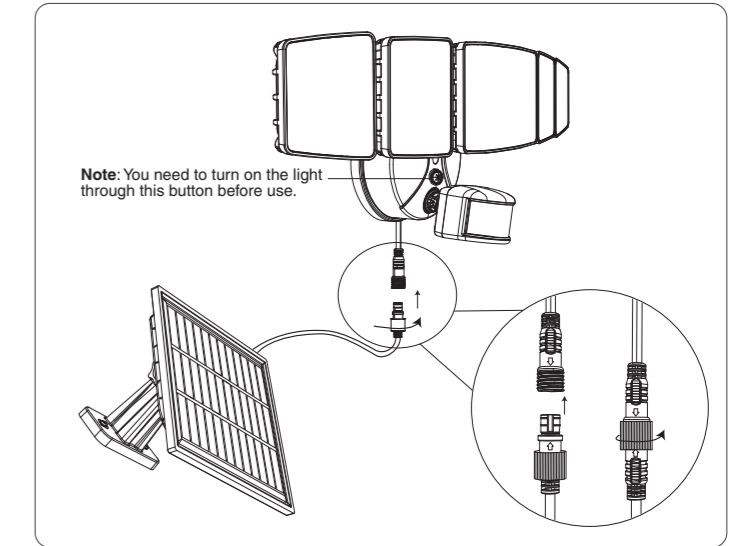
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OPERATION INSTRUCTIONS

Detection Range: 180°

Remote Distance: 8-10m

Optimal angle of the sensor orientation

NOTE:
1. The PIR sensor shall always be tilted slightly downward.
2. The orientation angle of the sensor shall be between 0-45°.

RECOMMENDED INSTALLATION HEIGHT: 6.5-13.1 feet above the ground.

8ft Height — Motion Sensor Horizontal — 72ft — Detection Coverage

8ft Height — Motion Sensor Downward 45° — 19ft — Detection Coverage

When mounted 8ft above the ground and the sensor is oriented horizontally, the maximum sensing distance is about 72ft.

When mounted 8ft above the ground and the sensor is 45° down, the minimum sensing distance is about 19ft.

Note: The detection distance of the sensor is the farthest when the ambient temperature is 25℃. Any temperature fluctuations above or below 25℃ will affect the detection distance.
If the light continues to detect motion while it is on, it will remain on until the motion stops.

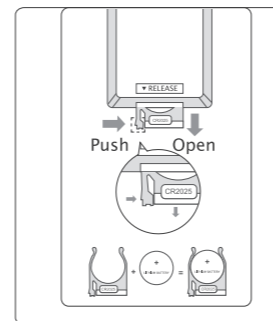**The sensor will be more sensitive to motion across the motion towards it directly.**

Motion | Motion

Least Sensitive — Sensor — Most Sensitive
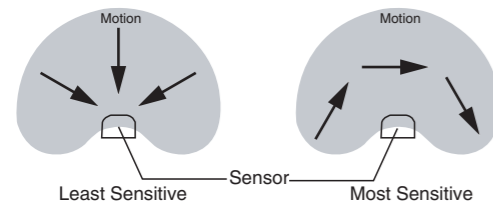
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REPLACE THE BATTERIES

Replace the batteries of the remote control by referring to the figure on the right.

Push — Open

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FAQ

Where is the solar panel installed?
Install the solar panel in the sunniest location, that is, the best place is facing south.

Why can't the solar panel be charged?
1. The solar panel can charge the internal battery by direct or indirect light. Please adjust the solar panel installation position for best charging effect.
2. It is advisable to adjust the angle of the solar panel to optimize the exposure of the sun in winter.
3. The solar panel should be cleaned by a damp cotton cloth on a regular basis, this will ensure optimal performance and better charging. Also, periodically use the same way to clean the lenses of the security light.
4. Make sure your solar panel is placed in a sunny location, and be aware of objects such as trees or overhangs from your property that may block the panel from receiving sunlight.

Why doesn't the lights work?
1. Please make sure that the battery has enough power.
2. You can turn off the light, then let the solar panel charge for about 1-2 hours.Turn the light on again after the battery is fully charged, and it will work normally.
3. From time to time, ensure the plug between the solar panel and light is securely connected.

Can additional or extended cable wire for the solar panel be purchased?
No extension cords are available for purchase.

What type of the batteries of this security light ?
The batteries type is 2pcs 3.7V 18650 1500mAh Lithium-ion rechargeables batteries.

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FCC

FCC Warning:

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