

WILDSOLAR



Solar Power Kit plus Controller

Model: SO-6-3W

(VER.20151028)

Product Description

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Thank you for purchasing the WildSolar Kit. This WildSolar power kit SO-6-3W is consisted with a high conversion efficiency polycrystalline solar panel and an electric energy storage power controller. The solar powered system has been designed under a waterproof, weatherproof, lightweight portable system which easier to snap on any outdoor device to supply an green endless energy. To be your perfect companion, it will be keeping your wildspy camera on the go without worrying battery issue in wild field. It is ideal for all Wildspy-solar trail camera series and any other devices which will be supported within the ratings and power interface. With an on-board huge electric storage component and a durable solar panel, the Solar power pack will supply your camera with all day high capacity energy as long as you expected.

The Maximum 6V/1Amp output of this power kit will support a target trail camera or a device as by an external battery pack at the same rating. On average, this power kit goes from zero to full just under 5~6 hours of full sunlight. It will allow your camera to take more than 2,000 night pictures or 1,000 day time 10 seconds video clips approximately. It means user does not much worry about it will not be sunshine everyday. On the other hands, your camera system will work continuously for 10 days even without sunlight after one time fully charged.

The solar power controller has a 3 DIGITS LCD with blue back light to allow you to monitor a converted energy from the SUN at any time. The LCD indicate the percentage of power level. The ingenious design of the power controller offer a spot light to be useful in a dark field by just press twice the button. The standard IN/ OUT power ports on the power controller allow to be changed with a difference length cable to the Solar panel and to your camera or target device. An on board mini USB home-charge port is used for pre-charging from any 5V/1A standard cell phone charger while you want it to be fully charged before an initial working in the field.

With a rugged construction and tough case ensures this Wildspy solar power pack is built for real animal trail and home or outdoor industrial security use, and set of mounting attachment kit means it can be securely fixed to any wall; pole or tree. A simple design mounting is adjustable for optimal sun angle from 15 to 90 degrees. You can mount the solar panel away from the Camera with the attached 5 meters cord

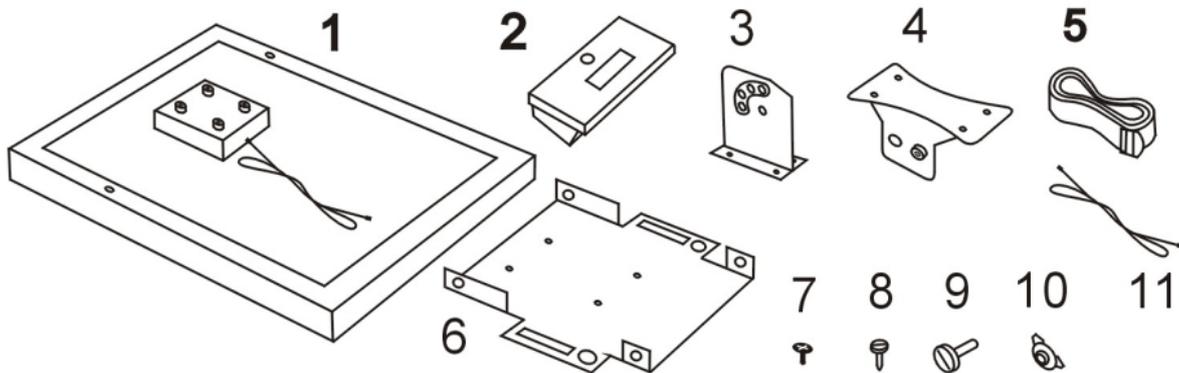
and you can extend for a double distance by an optional extension cable simply. Whether you're a new user with entry level camera or an advanced user having a professional trail camera, you expect to enjoy a wildlife trail much longer, this is the right choice for you.

The Solar kit is required a DIY assemble as the installation method shown below.

Kit List

This package are including the accessory parts:

Power Kit Including



- | | | |
|----|-----------------------|--------|
| 1. | Solar Panel | x1 pc |
| 2. | Power Pack Controller | x1 pc+ |
| 3. | Adjustable Junction-A | x1 pc |

4.	Adjustable Junction -B	x1 pc	8.	Screw -B	x5 pc
5.	Strap	x1 pc	9.	Screw -C	x1 pc
6.	Mount Bracket	x1 pc	10.	Butterfly Nut	x1 pc
7.	Screw -A	x4 pc	11.	Power Output Cable	x1 pc

Preparation

The assembly are divided for two sections

Solar Panel Assembly:

The Solar Panel -1 is required assemble with the parts- 2 /7 as the Fig. 1. This semi-assembly is called Part A. It is suggested to install it on the Part B when the Part B is already fixed on a right place firmly.

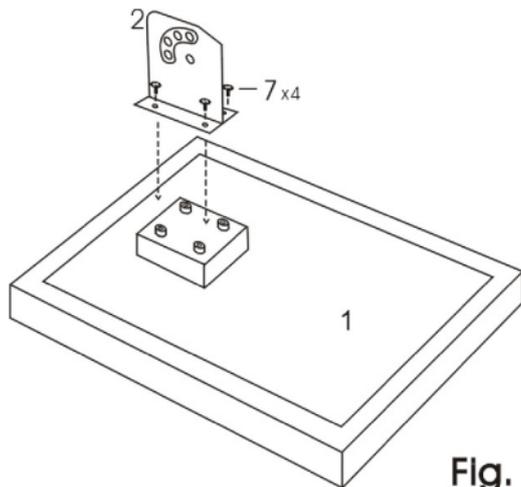


Fig. 1

Mouting Bracket Assembly:

The Solar mounting bracket Part B is assemble with the parts -4; -6; -8 as the Fig. 2 . Then, mount this section on a tree or a post. Once you install it firmly on a certain place properly or on a tree, you can combine the solar panel Part A together. This procedured will be much helpful to reduce any accident to break the Solar panel.

Finished Assembly with Two Sections as below:

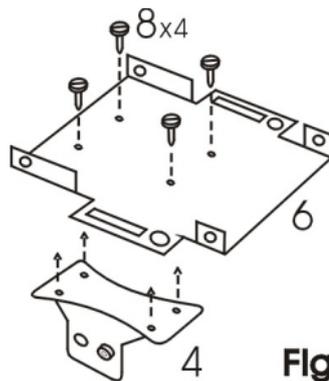


Fig. 2

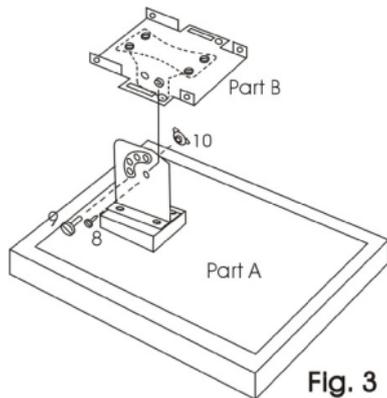
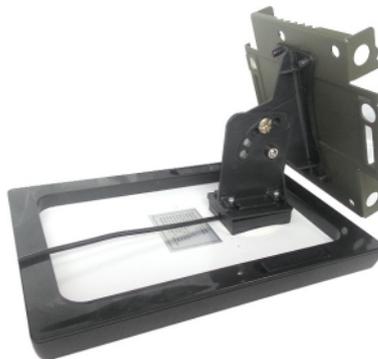


Fig. 3



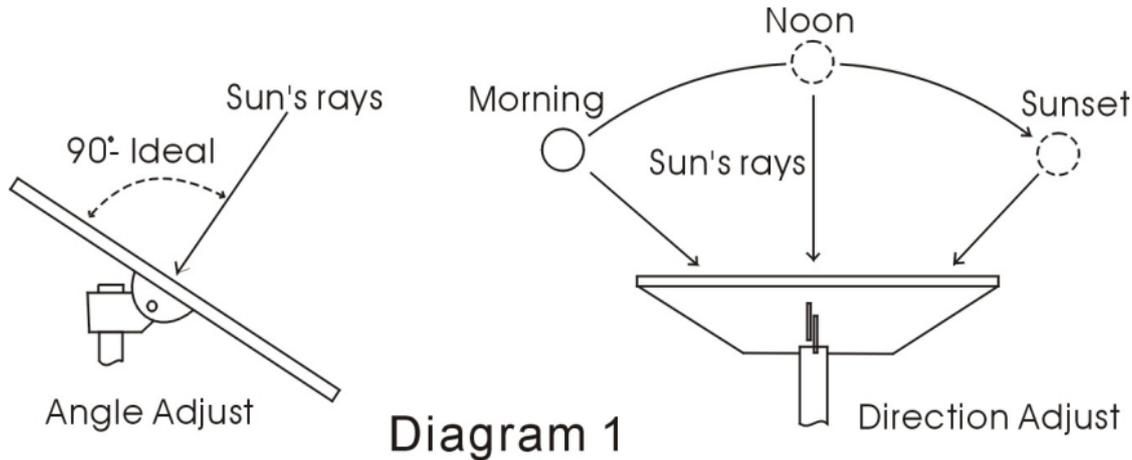
Mounting / Connection for Devices

There are several mounting methods that available to applied on this solar kit. The design is reserved to fit for difference ways of mounting. Please refer a several pictures as below:



Optimized Tilt of Solar Panel

To achieve the greatest efficiency from a solar panel, it must be properly placed and pointed with respect to the sun's position in the sky. Solar panels deliver the most power when the surface of the panel catches the sun's rays coming straight into the plate. This is to say that to get the full benefit of the solar panel, it needs to be positioned so that it is 90° to the sun at any given moment (at its zenith). Please study the Diagram 1 below:



Power Pack Controller

Pre-Charging the Power Pack:

Before applying the system in the field, it is recommended to charge the power control unit for 100% full with any traditional Android smartphone charger which it will comply with 5V/1A rating.

The standard mini USB port for pre-charge at home is on the rear centre of unit. LCD will show current electric capacity in percentage.

Power Pack Operation:

Power Button: A Power switch button is in front panel. It is used to control the power Output and turn it OFF while the system is not in used. See (Fig.4). Press the Button and hold for 2 seconds, power controller will deliver 6V/1A DC to device. A LCD will display the current electric capacity and a back light will lightens up for 10 seconds . Press and hold it for 3 seconds to shut down the controller completely.



Fig.4

Spot light: It will be useful in the field for a convenient to setup the system in dark environment. Press the Power button twice instantly, this spot light will be switched ON. Press twice again to OFF.

Connection between Solar Panel and Camera (Fig.5)

Solar panel is suggested to place it within 5 meters away from the power controller because you need to find a place where the panel will catch much sun shine and expose under the longest times in sunny environment.

Firstly, mount the camera and solar panel on tree, snap the power pack control unit on a belt which holding for camera too. Make sure the power IN / OUT ports must be always facing to ground in order to avoid any water leaking through either port. Plug the cable end from the solar panel to the solar source IN port and connect the Power-Output cable (Parts-11) from PW-Out to the Solar PW-IN port on the camera. Press the PW button. The Max output 6V/1A from power pack will be supplied to the camera. Now, the system start to work on duty at 24/7 and no longer worry about your device is running out of power. It will stay in the field to work as long as you want.

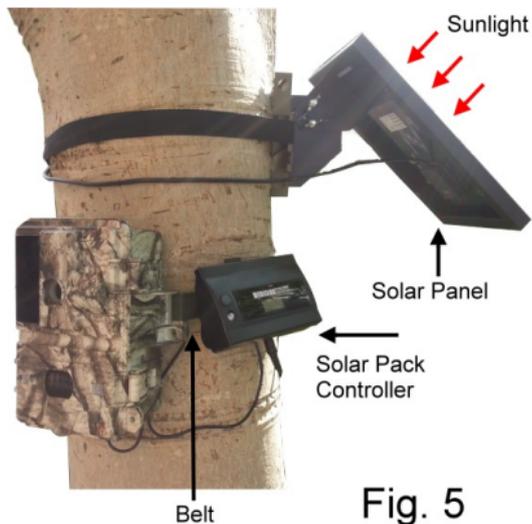


Fig. 5

Safety Operation

The solar power pack has an OCP protection feature that prevents an Output Current exceeding the maximum rating of this power pack during a heavy loading to be connected. It's output will be cutted OFF instantly while an over-loading or or even a short circuit accident is detected. Once an issue might be happened, sysetm will be OFF completely, no any display on LCD screen. You need to connect a cellphone charger to the power controller to resume the internal circuit for a recovery event.

With the hi- efficiency integrated charging circuitry, no worry about the internal power storage componets to be over charged or discharged. Power managment will automatically re-starts the changing when the internal power pack falls and stop changing when a storage is full under sun light.

Specifications

- * Solar Polycrystalline panel
- * Max Wattage: 3 Watts
- * Digitalized electric capacity level meter
- * One key operation
- * Built-in spot light
- * Discharge Rate: Fixed 6V, 3,000mAh
- * Charged by Android standard power charger: 5-5.5V 0.6-1A

- * Charge Time via USB port/wall charger: 5 hours.
- * Charge Time via Sunlight : 5-7 hours
- * Weatherproof and Water resistance at IPX5 -Rated
- * Solar panel Dims/Weight: 230 x 160 x 18 mm. / 0.5kg net.
- * Support for Solar Powered Wild-Spy Cam AC-833S ;AC853S
- * Operating Temperature (°C): -40 ~ +75

Trouble Shooting

1. **I want to extend the solar panel away from 5 Meters, how can I do?** You can purchase an extension cord for this purpose. It will be recommended to connect an extension cord for the solar panel end. Don't apply an extension cable between the power pack vs camera. Consult your dealer to get more details. But never extends a distance longer than 10 meters to avoid the charging efficiency to become worse.
2. **Can I use this Solar kit for my device other than the specified camera models?** Yes. Check if your device operation rating is same as this Solar kit. And pay attention to the plug type that polarity of the center is the positive.

3. **Why I could see my camera under working status, but the LCD on control unit is still staying blank?** In this case, your camera was working under battery backup mode. Just turn ON the controller power output by pressing PW button once in order to allow the Solar storage power to the camera always.
4. **Why I could not adjust the Solar panel facing to the sun?** Check and upside down the metal bracket to install again.
5. **I observed the LCD become blank during an installation of my device that purchased from third party. Why I could not switch on again by pressing the PW button?** In this case, a system overload protection was activated. You must check the polarity of port on your device firstly. Be sure the centre on the port to be the positive and also prevent any short circuit event. Then, resume the system operation by a charging with cellphone adaptor or connecting the solar panel under sunlight.
6. **Suppose I want to charge my cellphone with this power pack, how can I connect it to my cellphone?** You need to buy an additional converter to allow an USB port to fit your charging cable. Consult your dealer for the details.

Important Note: Please consult your dealer if you have any technical questions or problem while you use the product before you would send back the unit for repairing