

User Manual

Thank you for purchasing our Solar lamp camera. For your operating the product easily, we provide an user manual including product introduction and operating steps. Please read this user manual before using the device so as to make sure you can operate the camera correctly. If there is any misprints or inadequate translation, please understand. Then keep this user manual for future reference or product sharing carefully.

> Product Overview



1.Energy absorption glass	6.Off mode
2.Lens	7.Video mode
3. LED light	8.TF card port
4.Motion Sensor	9.USB
5.Photo Mode	10.Status indicator LED
11. Charging indicator	12.Reset

> Specification :

- Image resolution:2M 1920x1080Solar
- Video resolution:FHD:1920x1080/30fps
- Lens angle:F/NO2.0; FOV=120°;
- PIR sensing angle:120°
- Triggering distance :8m(Below 77°F/25°C at the Normal Level)
- Memory External memory (Micro SD card upto 512GB)
- PC interface:Micro USB 2.0
- MIC:YES
- Solar power:3.0W
- Lighting lamp:4W high power LED, distance 8~10M
- Lighting mode:Lighting below EV3,PIR motion detection lighting, lights off after people go away(lighting lasting most 5 minutes if people always stay by the machine)
- Imaging mode: Motion detection to triggering taking picture/video
- Operation keypad:Three-stage switch (Video, Image, OFF/Connect PC to setting menu), Reset
- Menu setting:Default triggering continuous shooting 5 pictures, can set to 1~10 picture and photo interval 0~5s; Default triggering video 10s, can set to 3s~5min,Automatic stop after people go away
- Time stamp:Support connect PC to set date and time, and date and time can display on image/video
- Installation height: 1.8-2.5m
- Power:Built-in rechargeable Lithium battery
- Spray-water protected: IP 54
- Operating temperature:-20 °C to +50 °C

- Storage temperature:-30℃ to +60℃
- Dimensions :approx. 225X160X94MM

Before first use

Charging

The Solar lamp camera has an internal, rechargeable battery which must be fully charged before use for the first time. It takes about 20 hours to charge the battery full by.

Please charge the Solar lamp camera by using a common USB power adapter* (DC 5V/1A) (*not included). While charging the charging indicator LED (11) right to the MicroUSB port will turn RED. When the Solar lamp camera is fully charged, the charging indicator LED (11) will turn off.

MicroSD

Before using the device for the first time or after replacing the MicroSD card, it must be formatted, so as to facilitate the optimization of the Solar lamp camera. The MicroSD card can only be used after the system has been formatted on a PC, which can otherwise lead to errors.

> Operation Introduction

Switch

1. when the device switch shows OFF mode, it can be used for charging and downloading with a computer U disk and setting of computer tools.

2. when the device switch shows Video mode, Only available for video.

3. when the device switch shows Photo mode, you can set the photo

and photo + video according to the computer tools.

Indicator Light

- The light of Engineering mode
- 1. Red light:

The first 30 seconds after power-on, if the battery voltage is normal, the red light will always be on. If the battery power is low (when the remaining power is 20%), the red light will always flash.

2. Green light :

After starting up 30 seconds, if the animal

The green light will be turned on once if the animal moves in the first 30 seconds after starting up.

• The light of Charging mode

-If it is charged by USB, the charging light will show <u>red</u> and the lights off after charging is complete.

-If the solar charging,the <u>blue light</u> will turn on. No sun the blue charging light will be off.

Light			Status
Blue	Red	Green	
Always On			Normal
outdoors			
during the day			
	Always On (First		Normal
	30 seconds)		
	Always On (after		Solar panel charges
	first 30 seconds)		battery
	Flasing (First 30		MicroSD card is full,
	seconds)		broken, or not
			plugged in

Flashing all the		Battery remaining
time		20% power or less
Off		Needs charging
Flashing while		Needs charging
power on/off		
	Turns	Motion is detected
	On	(photo / video
		recording)

> Operation

1. Make sure that nothing is blocking the lens and infrared sensor in front of the Solar lamp camera.

2. Switch the Off mode to Photo or Video mode the red light on, the first 30s will enter Engineering mode.

3. Move your hand in front of the motion sensor of the machine (just for testing). The green light (10) will turn on and the red light (10) will turn off once to indicate that the image is recorded/saved.

Info: After 30 seconds, the green light off will go into hunting mode. The camera will take photos or videos according to the parameters set by your computer (automatic loop is turned on by default).

✓ How do camera, LED and motions sensor work together?

- In the evening, when the motion sensor detects a moving object (because of infrared sensing light), light lit up to 5 seconds. If the person keeps moving under the camera, the light will stay on for up to 5 minutes. The length of the video is based on the parameters you set via the software on your computer.
- Same video control during the day but the fill light is off.

✓ Parameter Setting

 Turn the device to the OFF position and connect it to the computer.
 When the red light of the work instruction goes out, time and parameter settings can be made.

2. Camera_Config_Tool_exe tools

You can find the following tool virtual disk on your computer

Devices with Removable Storage (3)



CD Drive (M:) Camera_Config_ 0 bytes free of 1.46 MB CDFS

1. Open Camera_Config_Tool_exe tools

Name	Date modified	Туре	Size
autorun	6/10/2020 10:17 AM	Setup Information	1 KB
Camera_Config_Tool	1/14/2020 11:56 AM	Application	1,425 KB
Camera_Setting	6/3/2020 5:26 PM	Configuration sett	2 KB
Camera_Setting_UNICODE_msg	1/13/2020 4:26 PM	Configuration sett	13 KB

2. Set the Date and Time of camera or PC time.

After you setting please click the Save Camera Settings to save the

ing.	Camera Config Tool- HS2180 - Firmware:SVN09453
Ŭ	Camera Auto Connect Load Camera Settings
	Connect Save Camera Settings Reset Settings
	Date/Time Settings
	Camera Clock
	Date/Time Format Camera Time 2019/01/01 12:04:00 YYYY/MM/DD • 24h •
	PC Time 2020/01/10 16:17:19 Assign PC Time to Camera
	Custom. Time 2020/01/10 Custom. Time 2020/01/10 Custom. Time to Camera
	Card Format
	English

3. Formatting TF card

Before using the device for the first time or after replacing the TF card, it must be formatted, so as to facilitate the optimization of the machine.The TF card is only used after the system is formatted on a PC, which will cause errors.

Note: The tool needs to unplug the USB cable after formatting the machine, and then insert it into the PC to correctly display the blank TF card after formatting.

4. Settings

You could according your need to set the Monitor Mode / Photo Series / PIR Delay / Video Length / Endless Capture / Date / Tme Stamp

Camera Auto Connect	Load Camera Settings	
Connect	Save Camera Settings	Reset Settings
Date/Time Settings		
Monitor Mode	Photo and Video 👻	
Photo Series	5	
PIR Delay	J 0 sec	
Video Length	J 5 sec	
Endless Capture	ON 🗸	
Date/Time Stamp		
	(
English		

✓ Watch videos

To watch recorded videos on your PC, set the device into Off Mode and connect the device with a Micro USB cable to your PC. The device now should be recognized as mass storage.

In case this does not work insert the Micro SD card directly into the Micro SD card slot of your PC or use a Micro SD adapter card.

Note: If you eject the Micro SD card from the camera you need to format it after inserting to the camera again!

✓ PIR detecting range Remark: The PIR detection area is 120°. Moreover, the PIR detection range is affected by the environment temperature (25°C is the best temperature).



✓ Battery life

It is depending on the mode you select as a default. Long battery life is one of the most important requirements. There are several variables that will determine the battery life (hours of sunlight, temperature outside, frequency of activity, etc.) Night video and photo frequency (light and record) will result in shorter battery life.

Attention: If RED status LED flashes, it is time for charging!

✓ Installing / Mounting

You can install the solar lamp camera to a tree or fix it to flat surfaces by bracket.

- You should mount the solar lamp camera via bracket in advance.
- The solar lamp camera should be placed, where it has enough sunlight, no barrier and shelter. And the solar panel has to face to the sunlight.
- Place the solar lamp camera above the ground or platform to avoid being inundated by rain.
- Check and make sure the solar lamp camera is fixed well.

Cautions

1. When you connect the computer, the red light is off. Please check if the USB plug is too loose to cause poor contact. When the battery is out of power, it needs to be reset (you can insert a metal strip such as a paper clip into the Reset hole and touch it to reset the machine with a light touch); whether WIN7 prompts the USB due to the high current surge caused by the slow insertion, you need to restart the computer. 2. Before connecting to the computer, the three-gear switch should be set in the OFF position. After connecting to the computer, you can check the pictures and videos and set the computer parameters when

the red light is on.

3. When the red light is off at startup, there may be no power to charge. You can use a metal strip such as a paper clip to insert it into the Reset hole and press it to reset it.

4 . If the red light keeps flashing when starting up (flash) or the power is turned OFF after starting up for 4 seconds, it needs to be charged, then the three-gear switch should be plugged into the USB 5V computer at the OFF position or the charging cable should be red and red, and the charging red light should be turned OFF when it is fully charged.

5 . If the red light keeps flashing (slowly flashing) when you turn on, please check whether the memory card is installed or the cycle is full (connect the computer with the Camera_Config_Tool_exe tool to check whether the machine is closed cycle) and the bad card prompt. 6 . 30 seconds after starting up, move your hand quickly outside the machine's motion sensor. The green light will not flash. Check whether the infrared sensor window is too dirty. After the green light flashes, the red light keeps flashing. Please check whether the MicroSD is properly inserted or not (connect to the computer with Camera_Config_Tool_ exe to format the machine MicroSD card).



使用说明书



≻ 产品概述



1. 太阳能板	7.录像模式
2. 镜头	8. TF 卡插槽
3. 补光灯	9.USB 槽
4. 红外感应	10. 工程模式指示灯
5. 拍照模式	11. 充电模式指示灯
6. u 盘及电脑设定	12.复位键

▶ 规格参数

图片分辨率: 2M 1920x1080 视频分辨率: FHD:1920x1080/30fps Lens angle: F/N02.0; $F0V=120^{\circ}$; PIR 感应角度: 120° 触发距离: 8m (Below 77° F/25° C 正常水平上) 存储:最高支持 512G TF 卡 USB 接口: Micro USB 2.0 可连接电脑、充电 MIC: 支持 太阳能板: 3.0W 照明灯: 4W 大功率照明 LED, 照射距离 8~10M 照明模式:在 EV5 以下亮灯,人来感应亮灯,人走后熄灭(人一直 在机器下面活动补光灯一直亮最长5分钟) 影像模式: 感应拍照/录像 操作按键:三段开关(录像,拍照, OFF/连 PC 下载和参数设置), 复位键 电脑工具参数设置:默认感应拍照连拍5张(可调 1^{2} 10张,连拍 照片间隔 0~5S) /录像 10S (可调 3S~5 分钟, 人走后自动关闭,) 日戳印记: 支持连电脑设定日期时间, 日期时间显示在照片录像 \vdash 安装高度: 1.8-2.5m 电源类型: 内置可充电锂电池 喷淋水的保护: Spray-water protected (IP protection class54)

操作温度: -20℃ to +50℃

储存温度: -30℃ to +60℃

尺寸和重量: approx. 225X160X94MM

▶ 首次使用须知

关于充电

太阳能灯相机具有内置的可充电电池,首次使用前必须将其充满电。充 满电大约需要 20 个小时。

请使用通用的 USB 电源适配器*(DC 5V / 1A)(*不包括在内)为太阳 能灯相机充电。 充电时,MicroUSB 端口右侧的充电指示灯(11)将变为 红色。太阳能灯摄像头充满电后,充电指示灯 LED(11)关闭。

关于内存卡

第一次使用设备前或更换 MicroSD 卡后,必须进行格式化,以便于太阳 能灯相机的优化。MicroSD 卡只能在系统在 PC 上格式化后使用,否则会 导致错误。

▶ 操作介绍

开关

1. 当设备开关拨至 0FF 模式时,可通过电脑 U 盘进行充电和下载以及 电脑工具的设置。

2. 当设备切换至 Video 模式时, 仅对视频可用。

3. 当设备切换显示拍照模式时,可以根据电脑工具设置拍照和拍照+ 视频。

指示灯

◆ 工程模式指示灯

红灯: 在开机后前 30S 工程模式电池电压正常红灯一直亮,如卡满卡坏没 卡和电池低电压(电量还剩 20%的时候)就一直闪烁。 绿灯: 在开机后前 30S 工程模式有感应到动物移动会亮灯一次。

◆ 充电摸式指示灯

红灯: USB 或太阳能充电指示,充电灯亮,充满电灯熄。

蓝灯:太阳能充电指示(充电电流大小同阳光强度关联)。

	指示灯		状态
蓝色	红色	绿色	
白天在室外			正常
常亮			
	开机后前 30 秒常		正常
	亮		
	开机后 30 秒常亮		太阳能电池板充电
	开机后前 30 秒闪		内存卡满了,坏了,或者没
	亮		有插入
	一直闪亮		电池电量剩余 20%或者更
			少
	不亮		需要充电
	开机/关机时闪烁		需要充电
		亮	检测到运动(拍照/录像)

基本操作

1. 确保没有东西阻挡在太阳能灯相机的镜头和红外传感器的前面。

2. 从 OFF 模式切换到拍照或视频模式, 红灯亮, 前 30 秒进入工程 模式。

3. 在机器的运动传感器前移动你的手(仅用于测试)。绿灯(10)打 开一次,红灯(10)关闭一次,表示图像被记录/保存。

注意:30秒后,绿灯熄灭将进入狩猎模式。

相机会根据电脑设定的参数进行拍照或录像(默认为自动循环)。

相机,LED 和运动传感器如何一起工作?

在夜晚,当运动传感器检测到运动物体时(由于红外感应光),
 LED 灯亮 5 秒钟。如果此人一直在摄像机下方移动,则该灯

将保持亮起最 5 分钟。 视频的长度取决于您通过计算机上的 软件设置的参数。

● 白天的录像也一样,但补光灯熄灭。

▶ 电脑参数设定(置于 OFF 位置连 PC)

- 机器置于 0FF 位置连上电脑,当工作指示红灯亮起熄灭后可进 行时间和参数设定。
 有可移动存储的设备 (2)
- 2. Camera_Config_Tool_exe 工具

在 PC 上找到如下工具虚拟盘

DVD



DVD RW 驱动器 ((E:) C

CD 驱动器 (H:) Camera_Config_

3. 打开 Camera_Config_Tool_exe 工具

autorun	2020/6/10 10:17	安装信息	1 KB
🔞 Camera_Config_Tool	2020/1/14 11:56	应用程序	1,425 KB
Camera_Setting	2020/6/3 17:26	配置设置	2 KB
Camera_Setting_UNICODE_msg	2020/1/13 16:26	配置设置	13 KB

4. 时间设定,可同步电脑时间或自行设定及格式化机器 TF 卡。 点击日期/时间进行相对应的设定。

☑ 相机自动连接	载入相机设置			
连接	储存相机设置		重置设置	
日期/时间 设置				
相机时钟		日期时间格式		
相机时间	2019/01/01 12:04:55	YYYY/MM/DD	▼ 24小时制 ▼	
电脑时间	2020/01/10 16:18:14	把电脑	时间设定到相机	
指定时间	2020/01/10 🔍 🗸	把指定	时间设定到相机	
记忆卡格式1	Ł			
中文(简体)				

5. 格式化机器 TF 卡

机器第一次使用前或更换 TF 卡一定要用工具格式化便于优化机器, TF 卡只在 PC 上系统格式化后使用会出错。

注意:格式化机器后,该工具需要拔掉 USB 电缆,然后将其插入 PC 以在格式化后正确显示空白 TF 卡。

6. 参数设定,设定连拍张数间隔/录像时长。

点击设置可对监控模式/相片张数/PIR 延迟/录影长度/循环拍照/打印日期相片时间等进行设置。

🔞 Camera Config Tool- HS2180 -	Firmware:SVN09453	
☑ 相机自动连接	载入相机设置	
连接	储存相机设置	重置设置
日期/时间 设置		
监控模式 相片张数 PIR延迟 录影长度 循环拍照 打印曰期相片时间	相片与录影 ▼ 」 5 」 0秒 」 5秒 打开 ▼ 打开 ▼	
中文(简体) ▼		

视频回放

需要在你的电脑上观看录制的视频,请将设备切换到 OFF 模式, 并用一根 USB 线将设备连接到你的电脑上。现在,该设备应被视 为大容量存储。

如果用 USB 连接无法查看,可将 MicroSD 卡直接插入电脑的 MicroSD 卡插槽中,或使用 MicroSD 读卡器。

注意:如果您从相机中直接弹出 MicroSD 卡,那您在下次若将 Micro SD 卡再次插入相机后需对其进行格式化。

PIR 检测范围

PIR 检测区域为 120°。PIR 检测 范围受环境温度的影响(25℃为 最佳温度)。



电池寿命

电池的寿命取决于您选择的默认模式。但这几个变量将决定电池 寿命(日照时间,外界温度,活动频率等)。夜间录像和照相频 率(灯光和录像)会消耗电池寿命。

注意:如果红色 LED 灯闪烁,则提示您该充电了!

关于安装

你可以把太阳能灯相机安装在树上,也可以用支架把它固定在平面/墙上。

- ① 你需要提前通过支架安装太阳能灯相机。
- ② 太阳能灯相机应放置在阳光充足、无遮挡的地方。太阳能电池 板必须面向阳光,挂墙/树高度1.8[~]2.5M,防止误拍离树叶距离1 米以上。
- ③ 将太阳能灯相机置于地面或平台上方,以免被雨水淹没。
- ④ 检查并确保太阳能灯相机固定好。

注意事项

1. 连接电脑时, 红灯不亮。请检查 USB 插头是否太松而导致接触 不良。电池没电时需要复位(可将回形针等金属条插入复位孔中轻 触复位即可); WIN7 有否提示 USB 由于插入慢造成有浪涌大电流产 生, 需重启电脑。

2. 在连接电脑之前,三档开关应设置在 0FF 位置。连接电脑后, 红灯亮时可以查看图片和视频,设置电脑参数。

3. 开机时红灯不亮,可能没有电可充电。您可以使用金属条,如回形针插入复位孔,并按下复位。

4. 如果启动时红灯一直闪烁(闪烁)或启动4秒钟后电源关闭,则需要充电,应将三档开关拨到0FF位置插上USB 5V电脑或充电线,红灯亮,充满电后红色指示灯熄灭。

5. 如果开机时红灯一直闪烁(缓慢闪烁),检查存储卡是否安装或 周期已满(用 Camera_Config_Tool_exe 工具连接电脑,检查机器 是否已关闭周期),检查存储卡故障提示。

6. 开机后 30 秒,手在机器红外感应窗口外快速移动。绿灯不会 闪。检查红外感应窗是否太脏。绿灯闪烁后,红灯继续闪烁。请 检查 MicroSD 是否插入正确、内存卡是否不良(连上电脑用

Camera_Config _tool_exe 工具,格式化机器 TF 卡)。