

Instruction Manual

(Ref. 836iR-1; rev. 20150731)

WildSpy Cam Solar Powered Product

InfraRed (IR) Solar Powered Scouting /TimeLapes Camera

Model No: AC-836

Compact 3 in 1 Solar powered Time Lapse IR Camera is ideal for endless green energy powered operation. Come with a high conversion efficiency polycrystalline solar panel, just plug it conveniently to this unit, the Solar converted components will support this camera in the field to work with all day high capacity energy and keep your Wildspy Camera on the go without worrying battery issue forever. Either the solar panel or camera unit, they has been designed under a waterproof, weatherproof, lightweight portable solar powered system; build-in a 8M pixels high-resolution digital camera with many benefits of advanced features and technology for users who expect trying to simplify a hunting game as easy as possible. To help achieve this, the controls are divided into two sections- Digital Camera Control section and Motion Sensor Control section. Setting and operating with upper buttons for the digital camera is similar to operate as many other traditional digital cameras that you are already familiar with. The 2.4' color TFT screen allows you to view pictures in the field and program for general camera options. Another small LCD and the buttons on the lower displays and control all scouting settings of the motion sensor to let you know all details of current scouting status immediately when you just open the cover.

Not only be a scouting camera, it is an all in one solution for creating Time Lapse images. All shots will be converted to a time lapse video with our recommended free software. Just turn it on, set the time interval and shot capacity, frame your subject, let it record, you will get amazing time lapse videos during scouting period.

Before you will operate this solar powered camera, it is suggested you to read this manual for all details completely.

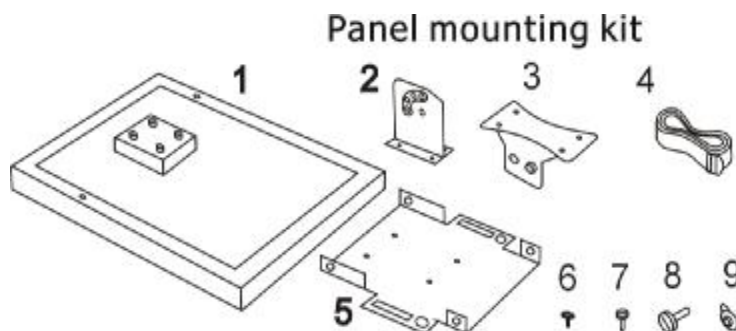
Features

- Direct connected with a 3W high efficiency polycrystalline solar panel on adjustable mounting for optimal sun angle from 15 to 90 degrees
- Built-in Replaceable 3000mA/H Lithium Ion Battery on board with a 4 level capacity indicators
- Over charge/ discharge protection
- Taking Up to 8 Mp high quality pictures and 720P HD (1280x720) video when a motion is detected.
- Date and Time Stamp on each picture and video
- Programmable Time-Lapse capturing for upto 99,999 images to convert an amazing video
- Built-In 2.4" Color Screen for viewing images and videos in field
- 1.2s Fast Capture at Night Shot under Fast Trigger mode
- Two modes for extending long battery life and Turbo snap shot speed
- SD Card Slot support up to 32G SDHC card
- Motion detect on duty selection: DAY – NIGHT – 24 HOUR
- Video length option: 3 ~ 90 seconds.
- TV out port support NTSC and PAL TV
- USB port for downloading images to computer and firmware upgrade
- Powerful Infra-Red flash to take monochrome clear picture and video at night within 50 feet.
- Separated TFT/LCD screens and keys to simplify setting for camera and motion sensor controls
- PIR Pause setting option: 0,1,3,5,10,20,30,60 minutes for silent time
- Quick Shot mode allowed for more detection up to 3 events before to next period of pause.
- Burst Mode for upto 5 rapid shots in one event
- Low Battery indicator
- Motion Sensor Radar Icon for Sensor ON- Duty status
- Memory Full Icon
- Video mode Icon
- Walk-Test / In-Used light for Distance and setup
- Dial for adjusting sensitivity of motion sensor
- Back light for Scouting LCD viewing.

- Power Supply: Direct Solar panel powered; Optional back up with D cell Alkaline battery x 4pcs
- Solar Panel Port support a series of optional solar power panels 3W/ 6W /10W; 5V Output max.

Accessory Included

- Main unit x1
- TV Cable x1
- USB Cable x1
- Belt Strap x1
- Instruction Manual x1
- Solar Panel mounting kit
 - >Mounting Kit Check List:
 1. Solar Panel x1
 2. Adjustable Junction -A x1
 3. Adjustable Junction -B x1
 4. Strap x1
 5. Mount Bracket x1
 6. Screw-A type x4
 7. Screw-B type x5
 8. Screw-C type x1
 9. Butterfly Screw Nut x1



OPERATING INSTRUCTIONS

Preparation

1. Open the front door by pulling up the two latches on the side of the cabinet. Push the Main power switch to OFF (Center).
2. During shipping status, the solar power storage component will be always shutted down. Press the Capacity/Solar PW button on the right of the battery compartment to verify the remaining power according to a response from the level indicator. If only two or less LED light, you need to use a traditional mobile charger (5V/1A output) and plug it into the Home-Charge Port for a fully charged. In case the capacity is full, just press and hold Solar PW key for 2 seconds to turn on the unit.
3. If you expect the unit to stay in the field for a long time, it is strongly to suggest installing 4 pcs D cell Alkaline batteries as a backup power source. But, it will be an option in the application in order to prevent the camera might be out of work while a cloudy period will be last for longer. The backup battery will not be drained in any time that the solar powered storage is still working at any capacity level.
4. Before try to operate with the camera, be sure a SD card must be into the slot. Be careful to insert the SD card according to direction shown on the SD card.
5. Assemble for the Solar mounting kit as the description on the Chapter **Solar Panel Mounting Bracket Assembly**. Then, mount this section on a place where allow the Solar panel under sunshine. Refer the Chapter *Optimized Tilt of Solar Panel*. Once you install it



Fig.1

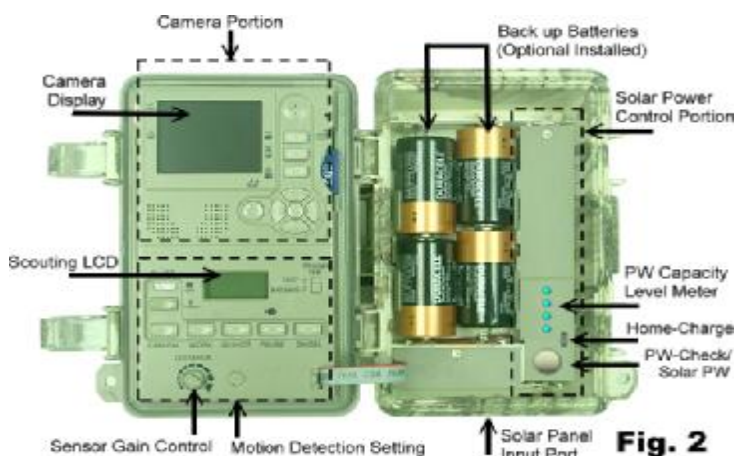


Fig. 2

firmly on a certain place properly or on a tree, you can connect the cable from solar panel to the unit. Indoor testing will not be required to connect a solar panel.

Caution:

1. Before replacing a SD card, be sure the Main PW switch is already at OFF position in order to avoid the data in the SD might be flushed. After that, formatting the SD card firstly before operation will be highly recommended if it is the first time to be used in this device.
2. Never close the front cabinet while you are charging with a cellphone charger. It might damage the home charge port easily.

Quick Start

An easy way below to guide you step by step for getting a quick start with the unit, it will run under the factory default if you do not change any parameter except below:

1. Push the main power switch which is allocated in the bottom of out-side cabinet to ON
2. After PW is ON, system will be ready for setup. Press CAM-PW to switch On the camera section.
3. Set date and time for the Camera and choose either at Picture or Video mode.(See the paragraph below for "***Date and time Setting***"; ***Still Picture / Video Mode***)
4. Set other parameters of scouting and exit the setting mode after finished. (See more paragraphs about the ***Setting for Motion Sensor*** below). You can ignore this step if you still are not quite understand what they are.
5. Hang unit on a steady tree around 1 meter height with the attached belt and set the motion PIR sensor almost point to the area which you wish to monitor.
6. Slide the main PW switch to TEST and turn the Sensor Gain Control to Max. (Clock-wise). After the SELF-TEST light goes OFF after 1 minute, try to walk in front of motion sensor in order to verify how much distance and a zone you will be detected according to the flashing walk-test light .
7. Push PW back to ON and you can leave. Now the scouting camera will be ready to work stand-by after 10 seconds since PW is ON. Once an event will be detected, camera will take a shot to save an image as well as event counter will increase a record automatically.

Factory default settings

For Camera: Capture = Single Picture / Auto Exposure / 3M pixels resolution / Burst Mode =Off / Shutter Speed = Auto / Quality =Normal / Stamp =ON / Language = English / TV =NTSC / Download =MSDC / Video Resolution = VGA 640x480 / Frame rate = 15 Frames / Time Lapse =OFF

For Motion detection: Pause= 1 minute / Quick-Shot =1 / Turbo = PW-Save / Time Lapse =Disable / Work Duty = 24 HRs / 3 seconds Video length

Start up with User's Setting

It is suggested to customize your settings after you have experience to use this device for a few times.

Switch the PW ON, the lower LCD show the default settings. You can able to program with your desired parameters instead of the Factory default for both camera and motion detector operations. When the unit exit from setting mode or no change since PW ON, it will goes to the motion detection ON Duty mode automatically after 1 minute.

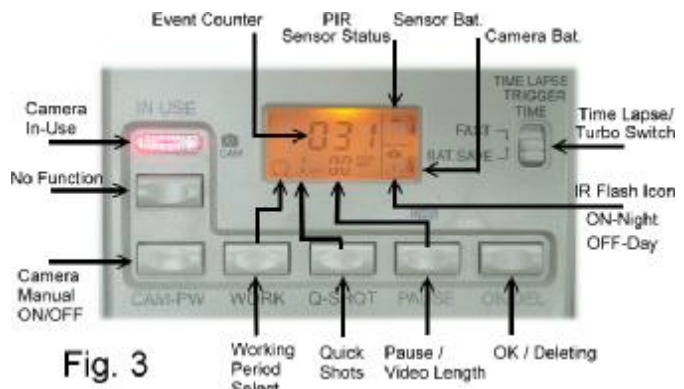


Fig. 3

Setting for Motion Sensor Operation (PIR Sensor)

The settings explanation below is referred to keys on the lower portion of the inner panel. See the Fig.3

Select ON DUTY for Day, Night or 24 hours

The WORK button is pressed once to enter the 24 HOUR > NIGHT > DAY options, the 24 (Clock) On Duty icons will remain blinking. Press the key again to move the blinking icon to the SUN icon, one more pressing will move it to the Moon. Press the OK/DEL key on your right to accept for the desired icon and then it become stable. The Clock icon is represented for motion detection will be valid a full day and night. The SUN is represented for day working. The MOON is represented for Night working only. If ON Duty is ready, a Radar

icon will run with radiation to show the device can sense any motion in this period.

Select for Quick Shot

Quick Shot allows for more images to be taken if **additional motions may be detected** after the 1st image and the camera does not shut down and still be ready for more instant shots. If the Burst mode is set for OFF, you can choose 1~3 additional events which will allow camera to shot between every 20 seconds in order to have a group images when many animals are passing-by. "1" is the default that only one picture to be taken and then goes to PAUSE time. "2" or "3" will re-arm the sensor for taking shots in further the second and third event if more animals are following. **(Example of use: On a trail when you want a picture of what is following the first young deer. Like a smart buck, it always walk at the last)**. A time-out of each shot is around 20 seconds. The system will goes to Pause mode after a total number of events are done or time-out. Note: This function is not the same as the burst mode. They will be used for difference purposes.

Pause Time

This is a silent time between the motion sensor does able to detect each event for a capture. The sensor will not work within the gap. You can select 00, 01, 03, 05, 10, 20, 30, 45, 60 minutes for a PAUSE option. Press the PAUSE button once to enter for start setting, default 01 will be blinking. Press again to change it until the desired choice appears. Press OK/DEL on right to accept it.

Change for Movie Length

This option will let you determine how long for each video to take. There are 3, 5, 10, 20, 30, 45, 60, 90 seconds of video length to be selected. The PAUSE key is shared for two functions. Press and hold the PAUSE key for 3 seconds, a blinking video camera icon will appear to let you know you already enter for video length setting mode. Then press PAUSE repeatedly until your desired length appears. Confirm an updated change by the OK/DEL key.

NOTE: Not only to preset a video length, you must be required to change for VIDEO option in the camera setting when you wish to take video clips. Otherwise, the device still does take pictures.

OK/DEL

It is a key for shared with two functions. Any time you have done to program the WORK, Q-SHOT and PAUSE / Video Length, just press the OK/DEL key to accept a new change. On the other hand, press and hold it with 3 seconds, it perform the DELETE function that all event counts on the lower LCD will be cleared. But it is not effect to any contents in the camera memory. All images and videos in camera are safe even the event counter is cleared in any time.

Event Counter

Three digits in the center of the lower LCD are the event counter which let you know how many motion records that up to 999 events for a trail period history. If you want to renew the counter anytime, simply to press and hold the OK/DEL button until LCD become blinking, then it will resume to [000].

Battery Icon on LCD

The Bat-icon on the lower right corner is represented for current total remaining power capacity from either Solar storage component or backup battery. Bat-icons will indicate three status as below:

GOOD: Battery Icon show with solid.

LOW: Battery Icon is half blank.

BAD: Battery icon is totally blank.

Important: Since the system detects batteries becoming too weak and the blank battery icon appear, the unit will stop taking any night pictures and video but still will take pictures or video at day time until to electric is drained completely.

Solar Power Capacity Level

4 LEDs consist a solar power storage capacity level meter on the battery compartment shows how much energy to be remaining currently by an instant touch on the PW Check. All light up to represent a full status, otherwise, only one lights to indicate it's energy dropping to very low level. If the last LCD lights with blinking, the solar power will be discharged completely within a few minutes. While the system is incharging, a floating light effect will display an electric capacity it has currently. The lights will go off completely when it is fully charged either through the Sun light or a cellphone charger. If the Solar power is at OFF mode, an OFF blinking alert will be always come with a check event.

Walk-Test / Sensitivity Adjustment

This is main PW switch in the bottom of cabinet. The **DISTANCE** dial on inner panel is used for adjusting sensitivity of the motion sensor. By turning the dial to the right, sensor sensitivity is set to the Max to detect animal over 40 feet away. You may reduce the detection distance for taking with a larger animal target in a picture. **Walk-Test feature** is used to verify the detection range and pointing zone before placing it in the field. After hanged the unit on a tree, push the PW switch to Walk-TEST. The Walk-Test LED will light up last 1 minute to warm up. (A radar icon with TEST alert is remaining blinking during Walk-Test mode if you are viewing the inside panel). Then, Walk-Test Light will goes off and will alert with 3 times flash once you will be detected in front of the device. Now you try to go far away to check how long the PIR motion sensor will still see you. The camera does not take any picture during this test process.

Note: The system will resume back to normal ON DUTY mode automatically after 3 minutes (Time-Out) since the last triggered detection of walk-test to avoid user may forget to push the PW switch back to ON before he left.

Solar Power ON/OFF

Since you opened the box to take an unit out, you can press the Solar PW button for 2 seconds to turn ON the Solar power storage output. It means a green power 6V is supplied to the camera. In case you will no longer use the camera, just simply pressing and hold the Solar PW button for 6 seconds and all LED lights will be blinking to alert the system will shut down. Remember to remove all backup batteries too.

PW-ON Mode

To operate with this switch, you have to turn on the Solar PW or install backup batteries firstly. Once the PW-SW is pushed to ON mode, the unit will begin to warm up for 20 seconds, then, camera will start to detect motion for taking pictures/ Video. When an animal or human is detected, an event will be recorded and the camera will shot immediately. If you want to stop the device operation, simply slide it to OFF.

OFF Mode

Slide the PW to the center position turn the system power OFF. All pictures and current settings will be remained at this mode and internal real time clock will still run.

Turbo Shot / Time Lapse

There is switch knob on the right of the scouting LCD. Push the knob to **Fast Trigger** mode (Always suggested working at this mode), the DC will be set for fast shooting. In this mode, capture speed will be more than 2x faster than a setting in the BAT-Save while a motion is detected. Setting of BAT_SAVE will be only ideal for extending battery life.

Note: This switch has dual functions. In case you want to take Time Lapse images, you must slide the switch to Time Lapse ON and, you have to enable the Time Lapse option in the camera setup menu.

Setting for CAMERA / Operation

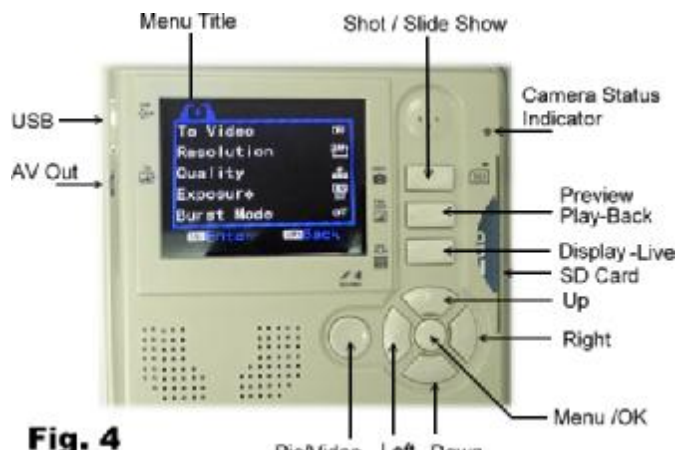
Description for Camera Operation Keys

SHOT / PREVIEW / PIC/VIDEO / DISPLAY / MENU (Center Key) /Navigation Disk

CAM-PW (Camera Power Button)

Before programming for the camera, be sure Main Power switch at ON position and camera is not in a moment that it is working for an event. Also, a SD card must be installed.

There are two modes that called **LIVE VIEW** and **PREVIEW (PLAY-BACK)** for operating the camera, press CAM-PW to switch ON the camera, it always works at the default staying in LIVE mode. The Camera IN-USE Light will stay ON while start up. Camera Status small indicator on the right top will alerts for 2 seconds to show camera is ON already. In this mode, camera screen is still remaining dark until either DISPLAY or PREVIEW key is pressed. You can either change for any camera settings, view pictures, take a picture manually, download pictures to PC, or whatever you need to view contents in camera.



When you finish using the camera, remember to turn the camera OFF by pressing the CAM-PW button again.

Note: During camera is ON mode manually, motion sensor will stop scanning until CAM-PW is turned to OFF.

Important: In case the small Camera indicator is staying on after CAM-PW is ON, no other key-in does respond, it is required to turn off CAM-PW and Back ON again after 5 seconds. If small indicator works as normal, but no key-in respond, you need to wait for a few seconds until the SD card initializing is done because your SD card might already store a huge quantity of images and video clips.

Navigator Disk / Function Keys / Menu Button:

Description for Camera Operation Keys, they are located in the upper portion of the inner panel

See Fig.4, all description below are subject to the Camera is ON manually.

Menu Key (OK Key)

The key in the centre can bring up the menu tabs. It is also used for accepting a change after modification.

Navigator Disk

Four sides of disk represent for the **Left / Right / Up / Down keys**. The center knob is the **MENU** button. All camera settings will be programmed with them. Press the MENU to display the 2 titles of setting tabs. Select a title that you wish to change by pressing the left or right navigator key. Highlight your choice from an item under the displaying title by the Up or Down Key. Press the RIGHT to enter further options and change it with UP/DOWN keys. And press OK to confirm. After finish a setting, quit to the main screen by pushing LEFT key.

More Function Keys

Shot key : It is used for taking picture or video manually in LIVE mode and Play-Back media files in PREVIEW mode. Push it to take a picture at any time while camera is ON manually even TFT screen still is remaining OFF (screen is always OFF by default) . For taking a video clip manually, 1st press SHOT to start taking, a stop watch counter will work and press again to stop.

PIC/VIDEO key:

It is a springboard key for toggle switching between taking Picture or Video. In the LIVE mode after turn ON camera manually, push this key to switch for another shot mode instantly. Then, press OK to accept.

Display (LIVE) key:

Press this key to wake up the screen for LIVE mode when start-up manually, then press it time by time to turn ON screen > Clean up screen > Resume information on screen repeatedly.

Preview key:

Press PREVIEW key, Camera will be switched to Play-Back mode at once and show the last image. It is also a toggle button to skip between Live View and Play-Back mode. During in Play-Back mode, the DISPLAY key become as a spring board for Full View an image vs Thumbnail pictures / videos. So, you have two ways to enjoy and search entire images /videos instantly.

Menu Title (Tab) for Camera Operating Modes

There are two main menus for two modes. Once camera is ON manually, press MENU key to enter the setting menu that consist 2 titles: A. System Setup Mode; B. Working Option Mode. Both Live View and Play-Back menus are including difference titles which described as below:

A. System Setup Mode

Press MENU to enter to Working Option Mode always, and then press the RIGHT key, you will enter to System Setup Mode, see the items below by pressing DOWN key. Enter to change further options by pressing the RIGHT key again, push the MENU key to confirm a change. Finally, press LEFT to quit the menu. If you press the UP key to the top of menu, then, press LEFT to skip to the setting tab of the current working mode.

1. Date & Time: a. 2015/01/01 12:00 / b. YYYY / MM / DD (Calendar Display Format)
2. Language: a. English / b. French / c. Chinese
3. TV out: a. NTSC (Default setting, Used in North America) / b. PAL
4. USB
 - a. MSDC (Default for frequently used to download files to PC under all Windows platform)
 - b. PCCAM (Only for upgrade Firmware purpose)
5. Format (Erase Everything in entire storage media)
6. Reset All Yes = Proceed (Select it to restore all factory default settings)
7. Time Lapse: Off

Date and time Setting

Before you would place this unit in the field, you are recommended to update with your local time first. After

entering to the setting, press Right key to move the High light for calendar pattern and change it with Up or DOWN key. Press Menu to accept a change. NOTE: The calendar is shown in military fashion with 24 hour format. Example: 2:00 pm will be shown as 14:00. (Hour: Minute:)

Format

After proceed this function, every things in the SD card will removed completely. Be careful before proceeding.

Time Lapse Operation:

You can activate the Time lapse function during any scouting period. It will work fine day and night by sliding the Turbo switch to Time Lapse ON and enable the Time Lapse option in the camera menu setting. Camera will take shots automatically according to the further programming in the Time Lapse settings. The Time Lapse event will start to run since one scouting image to be taken. Therefore, be sure you have to trigger the 1st shot by yourself before leaving from the site. Otherwise it will be triggered to start up by animal.

Further settings for Time Lapse

Interval: Adjust the default 5 seconds for your desired periodic time. The camera will take shots repeatedly according to your update. An adjustable interval set will be from 1 second to 23:59:59

Important: Time lapse capture event will be always interrupted during day / night transition and will be resumed after the 1st one scouting event is triggered during each transition.

Capacity: You can limit a Maximum total shots for a mission. More shots will be created for a longer Time Lapse Video. A Max. capture capacity will be 99,999 shots.

Research QTY of Time Lapse captured

Turn on Camera manually, enter to the Capacity Setting of Time Lapse option. The first data line is showing how many images are captured. This result will be erased once you turn the Time Lapse function to OFF in the system menu. Otherwise, this counter will continue when the camera resume for the Time Lapse mission.

View Images from Time Lapse mission

Touch the PREVIEW key after turn on Camera manually, you will see the last scouting image usually. Press RIGHT key once, the preview mode will be changed for viewing the last image of time lapse mission. In case you want to view back the scouting image or video, you have to quit and turn on the camera again. Touch the LEFT key to review all scouting images when you are already at PREVIEW mode.

Create A Time Lapse Video:

All of Time Lapse images are in the folder X:DCIM\101TLPIC\ and required to import them to a Time Lapse software for converting a video. There are many choices for such application program from web-sites or you can download from our recommended web for a freeware. A free software "Videomach" from www.computetechinc.com/download.html will be available for downloading.

B. Working Option Mode

You have two ways that entering to this working option mode. When you press MENU key while camera is ON manually, or you will do not select any item in System Setting Menu and press the LEFT for the Working Option Mode. In this mode, you will find difference options depend on you are currently at PIC or VIDEO status

Single (Picture) Mode: There are several items below by pressing DOWN key:

1. Switch To Video
2. Resolution : a. 3264 x 2448 (8 Mp) / b. 2592 x 1944 (5 Mp) / c. 2048 x 1536 (3 Mp) /d. 1024 x768 (1.3 Mp)
3. Quality : a. Super Fine / b. Fine / c. Normal (Adjust Image quality, it will affect capture speed to slow down)
4. Exposure : - / + Adjust (Adjusting for brightness of image instead of factory default)
5. Burst Mode : OFF > 2 > 3 > 4 (Off = 1 shot only for an event; 4 = 4 images will be captured repeatedly in one event)
6. Shutter / ISO
 - a AUTO (ISO 100~ ISO 400, It is the default for most of events and recommended)
 - b .Fast (Fixed at ISO-200 (Used to take a clear image against a moving animal. Sometimes for very short distance capturing setting at night to avoid images to be over exposure.)
8. Date Stamp a. Off / b. On (Calendar stamp ON/OFF option to show whatever the calendar on all images and videos.)

Video Mode

You can either use the springboard key **PIC/VIDEO** or highlight the Video to change by pressing **MENU** key. Once the **VIDEO** mode is selected, the unit will take video clips day and night. Since a 1st event is recorded, a video-cam icon will appear in the scouting LCD to show that system is already working in video mode.

In case you would switch back for Single Picture mode, just turn ON camera by pressing **CAM-PW**, then press the **PIC/VIDEO** key again. Press **OK** key to accept the **SINGLE** Mode. Then, system require to re-boot the unit by turn off the Main PW and back ON. You will see the Video-cam icon disappear. Otherwise, the camera will not work properly w/o a reboot processing.

There are the option items below by pressing DOWN key in the Video option menu:

1. Switch To Single
2. Movie Size : a. 1280 x 720 (HD) / b. 720 x 480 / c. 640 x 480 (VGA)
3. Frame Rate : a. High (30 f/s) / b. Low (15f/s)

Preview (Play-Back) Image and videos

1.View Image/ Video in Built-in Screen

Once press **Preview** key, screen will always show a full screen of the last shot. Use the left or right key to view other previous or next image. The displayed contents will be depended on which current mode it is. If you expect to view more pictures or videos in a screen, press **Display** for a thumbnail screen. See more nine images in a frame by pressing Left / Right key. Then enlarge it by pressing **Display** again.

2.View Image /Video with TV

The unit is equipped with a TV-out port that allow you to connect to TV at home with an attached cable.

Be sure the RCA end is plugged in the **Video-In** of your TV. To view pictures on TV set after camera is in **Preview** mode, all displays will be switched to TV screen and the internal screen will be OFF in this operation. If you pull out the TV cable, the digital camera will switch back to the internal viewing screen automatically.

NOTE: The last picture taken will be the first to display and will including of the total number of pictures stored and the number of current picture. Example: 0024/0036 is the 24th picture of a total of 36 pictures.

More Operation Setting at PREVIEW

In Preview mode, press the **MENU** key to display the Operating Menu with items below:

1. **Lock** (Protect file during a deletion operation)
 - a. Lock / Unlock One (Protect / Unprotect one file)
 - b. Lock All (Protect all same media files in the memory and they will not be deleted)
 - c. Unlock All (Unprotect all of protected files)
2. **Delete**
 - a. One (Delete One item)
 - b.. All (Delete All items except protected items)
3. **Rotate** (To rotate an image) a. Rotate / b. Save / c. Back (Recover to original)
4. **Resize** (Reduce resolution for a smaller size image in order to release more space in storage)
 - a. Showing all available resolution that you may change

Slide show

In a thumbnail screen, press **SHOT** key for enjoying a slide show. Interrupt the show by pressing **OK** key.

Digital Zoom

When viewing a full size picture, press the **UP** key to Zoom-In and the **DOWN** key to Zoom-Out for enlarge a part of image to see more details when enjoying an image.

Pan on an Image

Once you have zoomed in an image, you can pan the lens to view everywhere within an enlarged picture by pressing **LEFT** or **RIGHT** keys.

Deleting Photos

Press **MENU** key under the preview mode, then highlight **Delete** for Single or all photos to erase the target. Press **MENU** key to confirm for YES / NO deletion and repeatedly for deleting more.

Protect an Image or Video

During viewing an image or video which you would like to retain in the memory without wash-out by delete processing, press **MENU** and highlight the **LOCK** option once. Then an icon with small lock on the left top corner of this image to show it is protected. Repeat the same processing to unlock it. All of protected items will not be deleted except you try to format the memory media.

Using a SD card

This unit does support upto 32G SDHC SD card to get a large storage capacity that allow more than ten thousands of pictures to be saved. Camera will not works w/o a SD installed.

Note: Be sure the Main PW Switch is OFF before replacing a SD card in order to minimize a risk to damage your SD card or loss data partially.

Important: If a SD card can not be inserted smoothly, you must retract it and check if the direction of card is correct or not. Never force to push hardy with the card. Most of case with a problem with card usage is found that caused by an improper insertion.

Warning: Before using a blank new SD card, or ever been used in other cameras, it is suggested to format it before usage. So, you need to download all of existing files to PC before using it in this camera. Otherwise, camera will not save picture and video in the default directory properly.

Memory Management

In case SD card capacity is full, a memory FULL icon will be remaining blinking on the scouting LCD. The camera will stop to shot. Replace with an empty SD card or delete some or all contents then reboot the unit by the main Power switch to refresh the memory status. Make sure the memory FULL icon disappear after Power up again. The camera will not resume to work without rebooting the system.

Installing Driver for Upgrade FW into camera

In some cases, you will be recommended to upgrade the Firmware for your camera in future, a driver is required that you will be advised to install the driver which will be available downloading from the dealer's web-page or FTP-site firstly. After downloaded the driver into your PC properly, connect an USB cable between PC and camera, and switch ON the main PW. Then, press the PIC/Video and OK key at a time firstly, touch the CAM_PW to turn ON the camera. Now you can see the camera small status light will be steady ON. you are ready to upgrade the new FW now. Please refer the further instruction processing which will be provided from your dealer.

Downloading photos/ Movies to your computer

Press CAM-PW to turn the camera ON manually. Connect your computer and the camera with an USB cable.

- A pop up to show the mobile hard disk which is assigned for the camera device. For example:
x:\DCIM\100MEDIA
- Click into the proper directory to see all files inside.

Mounting Camera Device

Before starting to put this camera in the field for scouting game, the camera must be mounted in a certain place properly or on a tree whose diameter will not be less than 6 inch (15cm) and located not higher than 1M with your desired mounting method that following the installation method as shown as below. The design is reserved to fit for two ways of mounting.



Fig. 5



Fig. 6



Fig. 7

A Belt Mount: This belt is attached in the packing. See the Fig.5

B Python Adjustable Locking Cable (Not including in this packing): See the Fig. 6

You can able to use a Python adjustable locking cable to provide an advanced security level to your camera. The "Master Lock" brand is a good choice.

Metal Bracket and U Bar:

With more optional choices, a steel mounting bracket and U type security bar kit can be choosed to provide much stronger security ability. See the Fig.7. You can buy this accessory kit from your local dealer.

Solar Panel Mounting Bracket Assembly: The Solar mounting bracket is required assemble with the parts as the Fig. 8 by DIY. The part No. can be referred to the check list in the beginning. After done, please refer to the Fig. 9

Solar Panel Connection:

Solar panel is set it to the place within 5 meters where it will catch much more sun shine and expose with the longest times under sunny environment.

Plug the Solar cable to the Solar Panel port on the main unit. Once it works under sunshine, solar capacity level meter will show a charging status. The solar powered component will always supply energy to camera in 24 hours and will always be charged under sunlight.



Fig. 9

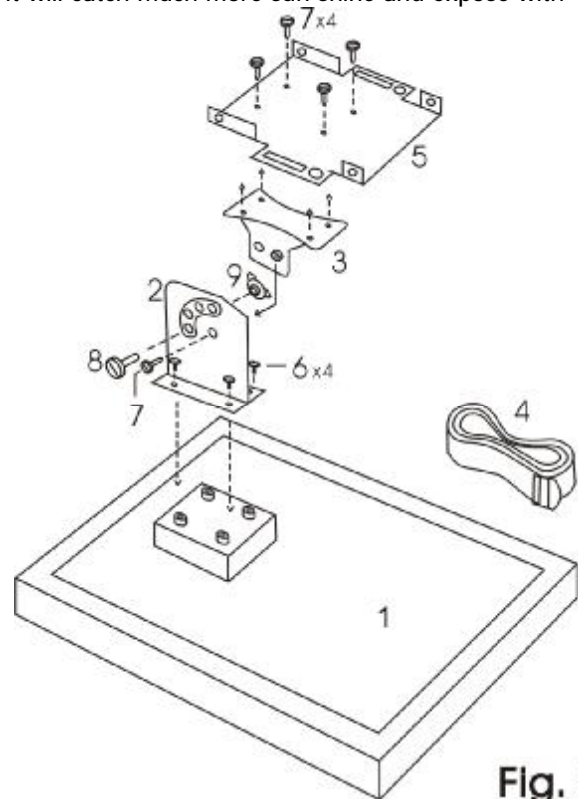


Fig. 8

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. Installation angle and direction adjustment are very important for getting the highest efficiency. 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:

Power Management:

If the first time you take the unit out from packing, you might observe remaining electric capacity level is very low or even gone completely. It is requested to connect a cellphone adapter to the Home-Charge jack (mini USB port) inside the battery compartment for a fully charging about 5 hours. Also, if possible, highly recommended to install 4 pcs Alkaline batteries for a backup source even you prefer to always use a solar system. The backup battery is standby only. While the solar energy still be enough to support Camera operation as usual. Battery will never be drained. Only since the solar power goes to OFF w/o any charging for a long time, backup source will start to work in order to extend a working period for more few months. It is ideal for remaining the scouting settings even no more power supplied from Solar storage component. So, a brand new battery set will last for a year.

It isn't a matter there are some days during cloudy whether because an equipped high capacity storage power component will support this camera to work for many days or a thousand shots and videos after one time of fully charged.

In a few cases you can not find a proper place to install the solar panel, you do not need to connect the Solar panel in this case. The backup battery will works as a main power source. It will also support the camera to work for a few months as any other traditional hunting camera w/o problem.

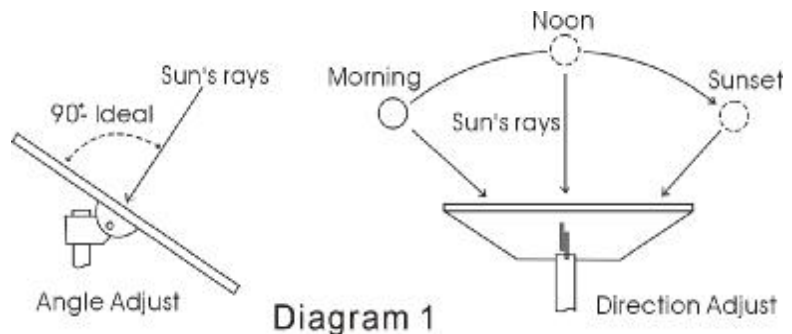


Diagram 1

Caution: Never close the front cabinet while you are charging with a cellphone charger. It might damage the home charge port easily.

CONNECT External Infra-Red Booster

For an experienced user, you always would expect to get extreme quality pictures and videos at night. WildSpy Cam does provide an option "Ext-IR BOOSTER" that you can buy external IR boosters **IRX-810** to fulfill your in-need. (850nm model of **WildSpot Flash** series). Thus you get about 2~4X higher illumination depend on a number of boosters you will configure. If you want to upgrade the camera to be a totally invisible black IR system, another invisible 950nm IR booster series like **IRX-20B** or **IRX-22B** for advance upgraded. For further option, you can choose **IRX-22BW** wireless booster that you can allocate many boosters near the target and they are triggered through radio frequency synchronously with the camera.

Troubleshooting Guide

1. **No animal showing in some pictures:**
 - A. The unit was pointed the direction where the sun is rising or sunset that the sensor might be triggered.
 - B. The PIR sensor might detect an animals through vegetation out of view from the camera.
2. **Camera In-Use light was ON, but the camera did not respond/small light was remaining ON:**
 - A. The camera may be time-out w/o any key-in and shut down automatically or Camera does hang up. Turn off Camera and back on after 5 seconds to resume the camera operation or try to reboot the system.
 - B. May be too many image files in the SD card, more files will cause a longer initializing times and camera will delay to respond your key in. You can remove all of the files to computer.
 - C. You attempt to back on again the camera instantly after just turn off camera. Usually, it is suggested to back on the camera after 5 seconds of a previous shut down event was done if you want to resume camera operation.
3. **NOT write picture into my "Used SD" card and seems a capturing event was done as usual:**

You must format the SD card which was ever used in the other device before applying it in this camera.
4. **Observed the Solar storage electric is full from level memter, but unit did not response:**
 - A. Press and hold Solar PW for 2s to turn ON the solar power storage circuit.
 - B. Attempt to re-charge by a general Android smartphone charger.
5. **Has slided the switch to Time-Lapse ON, but I still could not get any Time-Lapse images:**

Check if the Time lapse function in the camer menu is enble. Don't forget to program two important parameters after activate this function.
6. **Why I could not review my last shot and saw other images seems from Time-Lapse?**

Back on the camera and enter to preview mode, then, you are viewing the last shot from scouting mode. Press the LEFT key immediately to view other previous scouting shots. In case press the RIGHT key, you will view the last image of Time-Lapse. Only a way to scouting mode should be back on the camera.