

WildSpy CAM Scouting Camera AC-1

Ref No. AC-1-20110606

OPERATION MANUAL

Product Description

Thank you for purchasing the **WildSpy Camera** product. This WildSpy Cam AC-1 is a digital scouting camera for wide range applications. It is ideal for Animal trail, Hunting recording, Home security, Warehouse monitoring as a surveillance device.... It can be triggered by any movement of live animals or human in a location, detected by a highly sensitive Passive Infra-Red (PIR) motion sensor, and take high quality pictures up to 8Mp and 720P High Definition (HD) video. The product is designed for outdoor use and is resistant against water and snow. If it should be used for home or warehouse security application, a socket is reserved for an upside-down mounting. In this application, all pictures and the videos will be turned to the correct viewing position automatically.

It is powered by either 4 pcs batteries or 8 pcs batteries if you expect this camera staying longer in the field for taking more pictures. Once a motion is detected, the camera will take a shot immediately within one second. The built-in Low Red Glow infrared flash will deliver a clear monochrome images and video clip within 50 feet at night. Also, it will take color pictures or videos under daylight. It is equipped two ports for optional of adding more external IR boosters (referred to our accessory IR booster **IRX-800**) and 6V external power source like using of solar battery system. It provide an option that you can turn-off the internal IR flash and connect a **No Red Glow black flash** external booster to convert the device to be a totally invisible night vision camera. Get more information about this, please consult your local dealer for the details and feature benefit.

1. Kit List

This kit package are including the accessory parts as below:

1. Main Unit x1 set
2. AV Cable x1 pcs
3. Belt x1 pcs
4. Instruction sheet x1 pcs
5. Metal bracket for tree mount x1 pcs (optional)
6. Angle adjustable bracket for tree mount x1 pcs (Optional)

1-1. Outlook

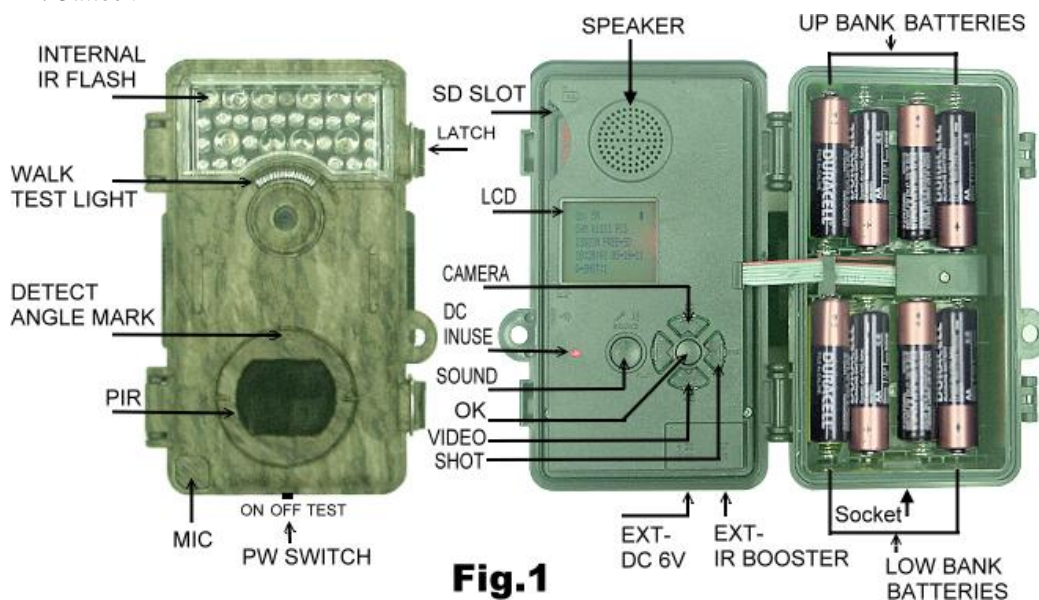


Fig.1

1-2 Features:

- Taking Up to 8 Mp (3264x2448) high quality pictures and up to 90 seconds 720P (1280x720) HD video clip with sound
- 1 second High-Speed Capturing Time when a motion is sensed
- Date and Time Stamp on each picture and video clip
- 2 banks for either 4 pcs or 8 pcs AA sized battery available
- 18 Mb internal flash memory
- Card Slot support 32G SDHC card
- Motion detect activity selection: DAY – NIGHT – 24 HOUR
- Video length option: 5 ~ 90 seconds.
- Video format selectable for Motion JPEG and MPEG-4
- TV output support NTSC and PAL TV
- Mini HDMI for HD video output
- Mini USB port for downloading images to computer and firmware upgrade
- External IR Flash Booster port to support up to 4 pcs boosters
- External Power port to allow 6V external power pack or solar powered input
- Powerful Infra-Red flash for great illumination over 50 feet.
- Pause setting options: 0,1,3,5,10,20,30,60,90 minutes
- Quick Shot mode allow for more detections up to 5 pictures.
- Scheduled Shot function
- Traditional mounting or Upside-Down mounting
- Upside-down capturing for special need

- Shutter speed HI / LOW selectable
- Voice Memo recording
- Adjustable motion sense angle from 10~60 degree
- Light Alert for Walk-Test and Scouting ready
- Adjustable sensitivity of motion sensor
- Back light for LCD viewing .

2. Preparation

2-1 Power Supply

Before to install batteries, make sure the PW Switch knob is at the OFF position.

The power is required 4 pcs good quality AA sized (UM-3) Alkaline or Lithium batteries basically and 8 pcs for the best result if you expect it work for longer and taking more pictures in the field. It is strongly recommended to install 8 pcs batteries if it will work under cold climate. Lithium batteries are the most perfect choice in the extreme cold condition.

Rechargeable battery also can be used, it is recommended to use AA sized high capacity Ni-MH 2000mAh or above with fully charged before using. Normally they might have shorter life span in each cycle due to their performance in lower efficiency and greater leakage discharge internally than the Alkaline batteries.

Caution: In order to avoid the camera might halt during batteries replacement, you must switch OFF the power before installing for the new batteries any time.

Do not try to mix old and new batteries or difference kinds of battery together. Be careful to the polarity of each battery before put them in. Two banks of batteries are separated in Upper/ Lower portions. You must fill up a bank of batteries together into either upper or lower if you just have 4 pcs batteries. They will work with exactly same performance.

Here it is highly to recommend you to uninstall all batteries from the compartment if you will not use the camera for a long time to avoid the metal terminals to be oxidized due to the leakage current from battery itself might occur.

2-2. Battery Power Condition

Within any time of Welcome mode, you can able to see how the power condition is either for the current batteries in the compartment or external power pack by a battery icon on the right corner of top LCD. There are three status to indicate:

FULL : Battery icon is filled up with solid completely. Batteries are full

HALF : Battery icon is shown with half solid. Means batteries are going low.

BAD: Battery icon is fully empty and indicating you must replace them as soon as possible.

Caution: Camera will not work at night if batteries are bad. But it will still be able to take pictures and videos at day time.

2-3 Memory Usage

The WildSpy Cam has a limited flash memory (18M FREE) internally for temporary test purpose. You can take either pictures or videos without problem even you have no SD card. The LCD will tell you how much memory FREE still left since power is ON every time.

The camera will goes to PW-OFF mode automatically after detected Memory Full during scouting operation.

If memory is already full when power up, the memory display row will be remaining with flashing to show "00000 FREE". The device will not enter to scouting mode until you did clear memory or replace with a new SD card.

When a SD card is inserted, you can see an amount of memory "xxxxx FREE-SD" from the Memory ROW during Welcome Mode.

A good quality SD card which is less than 32G will be recommended to save large quantities pictures and high quality HD videos. During the Welcome mode since Power UP, the WildSpy Cam will be in the "USB-DISK" mode when use the attached USB cable to connect both USB ports on the camera and PC. Before inserting the SD card into the slot, please make sure that the Write-Protect switch on the side of SD card is in "Unlock" position. Pay attention to the Front side of SD card must be faced UP which is referred to viewing the screen.

Caution: It is recommended to format the SD card with the internal command "FORMAT" in the MENU state of WildSpy Cam before the first time to use it. Do not insert or remove SD card during the Power Switch is ON position. If you feel the card does not be inserted smoothly, never force to push it and check if the card is upside down or damaged.

2-4 Function Keys

A control keypad is the input interface buttons of WildSpy Cam and is primarily used to set operational functions and parameters. As shown in **Fig.1**, there are six button keys: **UP; DOWN; LEFT; RIGHT; OK; SOUND**. All keys have multi-functions at difference modes. Their basic functions are described as below:

UP: Short cut for Picture mode / Scroll up at setting menu / Pan to Up at zoom mode / Clean screen during TV view mode

DOWN: Short cut for Video mode / Scroll down at setting menu / Pan to Down at zoom mode / Slide show during TV view mode

LEFT: Move Selection for the previous picture or video at TV mode/ Change new parameter at setting menu / Pan to Left at zoom mode

RIGHT: Move Selection for the next picture or video at TV mode / Change new parameter at setting menu / Pan to Right at zoom mode

SOUND: Entering or Quitting for Voice Memo mode / Enlarge image from 1X~4X / Video Play back at TV mode

OK: Push once to enter setting menu, Push again to confirm the displayed setting and exit at Welcome mode / Execute a desired function in Voice memo mode

Caution: All keys are effective only at the Welcome mode. They will not function and no display or sound to response even a key is pressed during scouting mode . So that you have to power OFF and back ON if you want to view or modify a setting as well as perform other operations like down loading to PC or view pictures on TV.

3. Quick Start Operation

Since above installation is done and if you are not familiar with the advanced operation of a scouting camera, the following instructions to help you to get a quick overview to start.

3-1 Operation Modes Description

Basically WildSpy Cam has three modes for normal operation. You can find their name molded on the bottom of front panel with:

OFF mode: Power is OFF. Camera will not do anything. It is safe for replacing batteries or SD card or transporting at this position.

ON mode: Camera is always working at this position.

Walk-Test Mode: Only to test the PIR detection zone and distance / Upside-Down capture function enable. (Only for upside-down mounting application)

Caution: You have to wait for more than 5 seconds for a time gap while trying to change for either mode during some operations required. Otherwise, the WildSpy Cam will not work correctly at your expected mode.

3-2 Power ON and Entering to Welcome Mode

Now you can switch ON the power by slide the PW knob to ON. The WildSpy Cam will be turned ON and enter to the Welcome page mode. **The Welcome mode** is a period that let you to view all of the scouting setting parameters from the LCD or other advanced operations while power is UP.

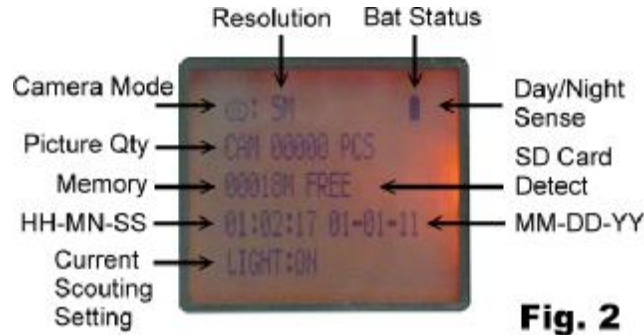


Fig. 2

The Display will be ON for showing the major information and each of current scouting parameters are pop up sequentially on the bottom LCD. The walk-test light is ON to alert you it is still under the Welcome mode if you try to close the door at this moment. If you do not press any buttons and do not plug either TV / HDMI cable or USB cable after PW-UP, Welcome mode will be switched to Scouting mode automatically after about 30s. Then, Walk-test light and the back light of LCD will be blinking for 10 times to tell you the camera will be ready for scouting after next 30 seconds.

3-3 Updated for Local Calendar

You have to update the calendar before your 1st time using this device. Press OK to enter the MENU state and press UP key 6 times until the cursor staying at the Calendar item which showing "01:01:01 01-01-10", press OK again for entering the setting. The 1st digit of "Hour" will be blinking, then adjust it with UP/ DOWN key. Push the RIGHT key to "Min" and change it with UP/DOWN key. Repeat the same processing for the next "Month > Day > Year". Press OK to accept the new Calendar and exit to the Welcome page.

3-4 Short Cut to Change Picture / Video mode

The default capture setting is for still picture. But you can change it for Video mode by pressing DOWN key or resume for Still Picture mode by pressing UP key directly during the Welcome mode. You can notice a camera or video icon with the corresponding resolution exchanged instantly after the **Short Cut key** is changed.

3-5 Manual Capture

Within the Welcome mode, press RIGHT key once to take a picture manually at Picture mode. The LCD counter will renew with the total numbers of picture. If it is at Video mode, the first pressing RIGHT key, camera will start to take a video. A **stop watch** will start to count up. Press RIGHT key again to stop this video clip. A video length under manual operation is no limit. **CAUTION:** In case there is no more key-in after around 30s since the last any key pressed during Welcome mode, The WildSpy Cam will start to blink for 10 times and goes to scouting shortly.

3-6 Start for Scouting Game

Since you have done the update with your local calendar and select either capturing mode, the factory default can help to set up the basic working environment without further setting if you are a new user under the entry level knowledge for hunting game. Now you can close the door and wait for a few seconds until the Walk-Test LED will become blinking for 10 times. That means the WildSpy Cam has entered into the scouting ON Duty mode now. After the alert signal is done, camera will need about more 30 seconds for warm-up before it does detection.

Now you try to walk in front of the PIR lens for several times. You are captured by the WildSpy Cam already. After entered into the Scouting mode, no manual controls are required or possible. It will be triggered by detection of activity and take pictures /videos automatically according to the **factory default** scouting parameters. Here are the useful information for you to understand the **factory default setting**. They are the optimal or commonly used values for a primary scouting operation.

Capture = Picture with 5Mg resolution; Video with 640x480 VGA

Calendar Stamp = ON (A stamp will be shown on every image)

Pause = 00 Min (PIR will resume for detecting motion immediately after the previous event is done).

Distance = Far (PIR sensitivity is set to HIGH)

Quick Shot = 1 (One image will be captured when one motion is detected and then goes to Pause Interval)

Working Period = 24 Hrs (Working day and night)

Scheduled Shot = Off (Advanced feature)

Internal IR Flash = ON

Microphone = ON (Sound Recoding enable in Video clip)

MPEG-4 = OFF (Advanced feature)

Video Length = 5 seconds

Shutter Speed = High (Advanced feature)

Above advanced features will be discussed in the following paragraphs

3-7 View Images / Video Clips from TV /HDMI connection

For viewing images and videos on TV, there are two ways to connect your WildSpy Cam through either an AV cable or HDMI cable (Not included) to a TV set.

If you want to view images from TV or a picture viewer such as the **model PV-822 (Pocket Multi-Cards Picture Viewer)**, slide the PW knob to OFF and back ON. Then you can see a total number of pictures /Videos to be stored from LCD according to the current capturing setting during Welcome mode. Plug the AV cable to the TV-Out port. LCD shows "TV-NTSC". Then, connect the **Yellow RCA plug** into the jack of Video-IN on the TV or Viewer Device and the **White RCA plug** into the Audio-IN on the TV set. (Let the White RCA plug free when using PV-822 picture viewer) Now you can view the thumbnail pictures on the TV screen. You can select one of desired image by the direction keys and enlarge it by pressing SOUND key. If the file is a video clip, it will play back immediately after SOUND is pressed once.

CAUTION: If your TV system is PAL system locally and an imaged shown with distorted tint or no color, you can select TV-PAL option by DOWN key.

HDMI Connection:

First, turn ON your TV which support HDMI input and get ready for HDMI input source, plug one end of the Mini HDMI Cable (Not including in this packing) to the TV HDMI Port and the other end is plugged into the Mini HDMI port on the Camera. LCD shows "HDMI" and the thumbnail pictures displaying on TV screen. Other operations are same as an ordinary TV like

described above.

Caution: Select the mode first by the Short Cut key corresponding to view pictures or videos before plugging the cable. The View function is only allowed either one of AV or HDMI cable to be connected to the camera at a time. Also, a good quality Mini HDMI cable is required. With any experience in the pass, many issues about a viewing problem of HDMI were caused by a bad quality cable.

3-8 Clean Screen for Viewing

During viewing enlarged 1:1 images or videos, press UP key to clear the On Screen Information for a clean screen. It is a toggled function.

3-9 Slide Show for Viewing

During viewing enlarged 1:1 images or videos, press DOWN key to enable the **Slide Show** function.

3-10 Zoom and Pan Image

After enlarged an image, push SOUND time by time to zoom-in 1X~4X. Since an image is zoomed-IN, you can Pan within this picture with 4 directional keys

3-11 Delete Image / Format Disk at TV mode

In case you want to delete one or all images when viewing on TV, just push OK to bring up the menu, highlight an option by UP/DOWN key. Press OK again. You will be asked for your confirmation in order to avoid a mistake might be occurred.

3-12. Down Load Images / Videos to PC

In the Welcome page mode, you can down load images or videos to PC while the Mini USB cable is plugged in the both USB ports on the camera and PC. The camera will be working like a traditional USB disk and LCD shows "U-DISK". You also see the new created disk drive appearing in the "My Computer" window. Then you can browse the existing files from the IMAGE stored directory at X:\DCIM\100MEDIA\.

You can copy or delete them with your PC skill as usual.
CAUTION: There is no need to install a special driver other than the WinXP bundled. The Win XP will install it automatically for you when it is the 1st time to make a connection with PC.

4. Advanced Setting

If you can able to view some images are saved in the memory successfully after above practices for several times, you are ready to learn more about the advanced operations in order to put this WildSpy Cam in the field with your desired plan for a real scouting game soonest. Actually, the advanced operations are much similar to the basic operation in above chapters. There are many options and descriptions of each feature / parameters to be explained in more details in this chapter. Now let's try to overview below to know how setting against to all of the items scrolling in the setting menu one by one.

4-1. Operation for Changing Parameters Setting

In order to change a parameter setting, you must be in the Welcome mode and press OK key for entering the set up menu. It is called **MENU state** in this document. Most of parameter setting guide information are separated to show directly on the LCD with 5 frame pages. So that it is easy to do for a next step according to the displayed information. A new parameter will be renewed instantly and effective immediately after OK is pressed. MENU state will quit at a same time. To scroll for any item, always use the UP /DOWN key to find it and then change it with new parameter by LEFT / RIGHT key, accept it by OK key finally.

4-2. Delete an Image

Once press OK, the first item "**DELETE ONE**" that you can view is for Single Image / Video deletion. It is often used while you are just in testing, try to take a several trial shots. If you do not want to delete the last one, just press UP once and press OK to exit.

CAUTION: You must be careful to pay attention to enter MENU state when you just finish scouting and opened the cover to avoid a precious picture to be deleted. There is no further confirmation for alerting you before the last image will be removed if OK key are pressed twice.

4-3. Setting for Capture Mode

Two ways are available for changing Picture / Video mode. One is to use the Short cut key as above. The other is through the MENU state. You can scroll down for the 2nd item "**CAPTURE-ICON**" which is the capture mode selection after entered into the MENU. Press Left / Right to select a desired mode.

4-4. Setting of Video Resolution

Scroll down for the next "**VIDEO ICON -640x480**" should be the Video resolution. Here you can choose from 320x240 / 640x480 / 1280x720 for a video size with the LEFT / RIGHT key. The highest resolution is the 720P HD video that it is specially for HDMI output.

4-5. Setting for Picture Resolution

Scroll down one more item "**CAMERA ICON -5M**" is the Picture resolution. Same as above, you can choose a desired mega pixels from 1.3Mp / 3Mp / 5Mp / 8Mp by LEFT and RIGHT key.

4-6. Setting for Pause

This item "**PAUSE: =00 MIN**" is viewed in the 2nd page of MENU state. It means that how long the PIR of the WildSpy Cam will be disabled after each triggering in the ON-Duty of scouting mode. During this time, the PIR will not react to any motion. So that you can select a value in minutes which for this triggering Interval time. "00" minute means there is no pause time and the PIR will resume to detect motion when a previous image was saved successfully.

4-7. Setting for Video length

The second item "**Video Icon -L: = 5S**" showing on the 2nd page of MENU is adjusted for a value of Video Length. This setting will be only effective when the device of capture mode is switched for video. The option will give you a choice for how long of each video clip will be taken against each event. All values are in "Second" with 5 / 10 / 20 / 30 / 40 / 50 / 60 / 90 s.

Caution: A longer setting of video length will cause shorter of battery life. If you expect to take a longer video clips day and

night, it is strongly to recommend to use Lithium batteries if possible.

4-8. Setting for Quick Shots

The next item “**Q-SHOT: = I**” is the setting for a number of Quick Shot. It means that how many following pictures will still be available captured since a motion is detected within a certain interval. There are 5 choices from 1 ~ 5 shots for selection and only effective at the Picture Capturing mode. **For example:** “2” shots is chosen, that means camera does save the 1st image which corresponding to an event of PIR just did it and then, camera will not goes to the Pause mode and still be remaining to wait for the PIR to detect another motion immediately. After the 2nd motion is detected for the 2nd image or 10 seconds of event time-out in case no motion will be detected, now camera did already finish this event in the certain interval and goes to the Pause mode.

4-9. Setting for Distance of Detection Range

This parameter “**DISTANCE: = FAR**” defines the sensitivity of the PIR. Only two choices are available. With FAR setting, it indicates the PIR will sense a motion far away from the sensor. It will sense a small animal more easily and result to get more pictures and videos. But, if you expect to get a larger body of animal appearing in an image, you have to set it for NEAR.

Caution: It is recommended to set FAR in warmer environment like in the summer time.

4-10. Setting for Working Duty

Scroll for next items, now you will see the 1st item in the 3rd MENU page to be the WORK duty “**WORK: =24HRS**”. This parameter defines a certain time lapse in a day of PIR working ON Duty period. Three period will be available for choice. They are:

24HRs: It means that the WildSpy Cam will capture day and night.

Day: It will only capture at Day time.

Night: It will only capture at Night time.

In the rest of period, the device will be silent. In this state, camera just consume a small power like power is OFF.

Caution: To verify a current environment to be day time or night, simply to note if a Lighting icon which represented for Night time does appear on the right top corner or not while you are in the Welcome mode.

4-11. Setting for Time Stamp

The 2nd item on the 3rd page of MENU is “**STAMP: = ON**” for a Time Stamp option. It defines whether the time should be stamped on each image or video clips (Required MPEG-4 =ON) or not.

Caution: The Stamp option will not available for video when the video is set for the Motion Jpeg format. (MPEG-4 =OFF)

4-12. Setting for Microphone

The next item is “**MIC: = ON**”. You do not need to change it normally except a sound recording in a video clip will be illegal without permission to the law in some of states of USA when you will use it for home security in the United State. But, any MIC setting in the MENU state will not affect to VOICE MEMO function that will be described in the Voice Memo chapter.

4-13. Setting for Internal IR light

Scroll down to the last item in the 3rd page of MENU, item “**Light = ON**” shows an option that whether you would turn it OFF in case a No Red Glow Black Flash will be connected in order to instead of the internal Low Red Glow flash operation. If set it for OFF, the camera will only drive the external flash to ON during a moment of camera does capture. In this operation, now you will not see any Red Glow from the flash and your system will become a device that called a **totally invisible night vision camera**

Caution: Never set this option for OFF if there is no any external booster to be connected or even a Low Red Glow IR booster will be used.

4-14. Setting for Shutter Speed

Scroll for next item, now you can see the 1st item on the 4th page of MENU which showing “**SHUTTER = HI**”. This parameter defines how camera will does to capture an image against a moving animal depend on a shutter speed like an ordinary classic mechanical camera working. Default is HI that means you will get more clear image and less brightness. If set for LOW, image will be more illuminated timing to result much brighter. But it will be affected with a little bit more blur.

Caution: It is highly recommended to set LOW if you are using an external Black Flash booster.

4-15. Setting for Calendar

See the details from the paragraph above for 3-3 Updated for Local Calendar

4-16. Setting for Schedule Shot

Scroll down to the next good option “**SCHEDULE: =OFF**”. It is for user who will expect to monitor the hunting scene hourly even no motion is detected. The setting is available either Picture or Video mode. If you change it to ON, the WildSpy Cam will be activated itself to capture hourly in time. It is also ideal for home security purpose.

4-17. Deleting Operation for ALL

Scroll down for the next “**DELETE ALL**”, now you can see the last item in the 4th page of MENU. Once you press OK key at this item, a further cursor will prompt with YES <> NO. You can choose it with LEFT / RIGHT key and then, press OK to finish.

Caution: It will only delete the entire files of the current mode. The contents of the other modes will be retained.

4-18. Format Operation

Scroll for the next item “**FORMAT**”, the page of MENU is switched to the 5th which is the last page. The 1st item on top is the Format option. Once you press OK key at this item, a further cursor will prompt with YES <> NO. You can choose it with LEFT / RIGHT key and then, press OK to remove everything from the entire flash memory or SD card.

4-19. Setting for Video Format

It is the last item for the camera setting “**MPEG4:=OFF**”. It defines which video format to be applied for a video clip. Before making a decision, you have to verify and clear what kind of video format for playing back without problem if the SD card will be read by a viewing device future. If you do not know about this, just remain the default setting.

For example: A video clip with MPEG4 = OFF (Default) will be supported by almost old models of picture viewers. But it will come with a larger file size and does not support Time Stamp on video. If set it with MPEG4 = ON, a high compressed video

file will be much smaller and support time stamp on screen. But many existing picture viewers will not support this kind of file. Therefore, your viewer might not be able to read any video clip from this SD card.

4-19. Exit after Done Setting

Now, the last item is “**EXIT**”. You may already change some parameters as you expected and press OK to accept everything you did quit to the Welcome page again.

Caution: A short cut way back to the Welcome mode, simply to press OK after changed or viewed a item. The EXIT item is ideal for a cancellation of DELETE ONE processing.

5. Advanced Operation

5-1. Walk-Test for Distance Test and Sensing Zone

This operation processing is for verifying how far away and how wide angle the PIR will sense for a motion. To perform this testing, simply to slide the PW knob to TEST position from OFF, then you will see the LCD indicating with “**TESTING**” and Walk-Test light is blinking for 8 times during PIR does warm-up. Then you try to walk in front of the PIR and notice the 3 times blinking response to a detected motion from the Walk-Test light. You have to repeat for doing a series of tests in difference place and going as far as away to determine where should be the place that PIR could not sense you. After this testing, you will estimate the best coverage zone and angle of the WildSpy Cam.

To adjust the detection angle according to some special needs, the WildSpy Cam has a best design that the **5 zones fresnel lens** that it is allowed to be turned for 90 degree to fulfill this request. If a small triangle mark on the lens is pointing to the center, the sensing angle is the widest. Otherwise, the mark is pointing to the left, it sense with the narrowest angle.

Typical application 1: In normal scouting game application, you need a wider sensing angle if the camera will be mounted on a tree with 0.7-1.2 meter height.

Typical application 2: If the camera is used as a surveillance device to monitor a path, it might be located on side of the path with 2-3 meter height, you can set it with a narrow angle. It will result for more sensing area along with the path if the mark on the left.

Caution: Remember to switch back the PW knob to OFF after the Walk-Test is done.

5-2. Upside-Down Capturing

If you use the device for security in house or warehouse, so you might install it upside-down on ceiling. There is no problem for this special need that you just slide the **PW Switch** to TEST mode and wait for 3 minutes silent time. The device will enable for upside-down capturing function. Since this function is activated, all images and video clips will be saved as upside down in order to view them as normal as usual in TV or PC.

Caution: To enable this function, you have to remain at least 3 minutes without any trigger by movement in the detection zone. If you still notice the Walk-Test light blinking with 3 times when PIR sense a human movement, that means the device is still working at Walk-Test mode. The 3 Minutes time-out will be started from the last trigger.

5-3. Voice Memo Recording Operation

The WildSpy Cam provide a good feature for user who would like to record a voice message at anytime, anywhere against something like a trail scene with a details description; a hunting experience; a reminder for hunting; a diary for every day; ext....

To do for a recording, you must enter to the Welcome mode. Press SOUND key to view the current LCD skipping to SOUND mode. Four options are listed on the frame for your choice. After finished operation with any voice options, remember to switch back to the Welcome page mode anyway.

“**Record**”: The 1st item on top showing a Microphone Icon is used for recording a voice message while OK key is pressed once. Then, a stop watch start to count up a time of the current voice recording. Press OK again to stop this recording and the counter in the 2nd line will renew the total of message records immediately.

“**Play**”: Scroll down the cursor to the 2nd line, press OK to play back the last recorded message. You can rewind to a previous desired voice memo by LEFT and use RIGHT key skip back to the 1st of voice in a short cut way. Press OK to listen all of them one by one automatically with 2 seconds pause of each.

“**DELETE ONE**”: Scroll the cursor to this item for deleting the current sound memo by pressing OK. The total message will be renew instantly.

“**DELETE ALL**”: Scroll the cursor to the bottom item for deleting ALL. Press OK key and a further cursor will prompt with YES <> NO. You can choose it with LEFT / RIGHT key and then, press OK to remove all voice messages from the entire flash memory or SD card.

Caution: In case the “**MIC =OFF**” in the MENU state, it will not affect to VOICE MEMO function.

5-4. Mounting the WildSpy Cam

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) with the attached belt that following the installation method as shown as below.

If the WildSpy Cam is used in house for Home security, it is equipped with a socket at the bottom to reserve for using a tripod or other mounting accessories with 1/4-20 thread.



Fig.3

5-5. Connection of External Power

Optionally you can connect an external 6V DC power to the jack “**EXT-DC 6V**” on WildSpy Cam if no internal battery is installed. The power source is required with a current not less than 1000mA ability at 6V rating. Please select a power pack with a not longer than 1.5 meter cable which come with a straight type power PLUG with a 2.5mm shaft in it's center. Improper diameter shaft will not been able to plug-in. Also, be sure the shaft terminal is the Positive polarity before using.

An external power pack can be considered to use a typical high capacity rechargeable battery or a solar powered power pack which they must be within the rating of required.

Caution: Too longer cable will result to reduce much efficiency on it. This will not be good for camera operation during power pack become lower status.

5-6. Connection of External Infra-Red Booster

For an experienced user, you always would expect to get extreme quality pictures and videos at night. WildSpy Cam provide an option that up to 4 pcs external IR booster will be supported in a chain connection. The "**Ext-IR**" port is fitted for a cable of booster which come with 2.0mm shaft. You just plug one end of the booster to the port on the camera without any further setting required. Thus, you will get about 2~4X higher illumination at night.

If you have bought a No Red Glow Black flash booster like our accessory product IRX-22B, you have to turn OFF the LIGHT setting in the MENU state before usage in order to convert your WildSpy Cam become a totally invisible scouting camera system.

Caution: If more than one booster will be used, please refer the instruction sheet come with the IR booster packing. Also, be careful to insert the cable plug into the proper jack. The EXT-DC 6V jack will also be available to accept a plug with 2.0mm shaft.

5-7. Operation as a PC-Cam

It is the special function specially for an experienced user who would like to use the WildSpy Cam working as a PC Camera for a personal need, simply to select the PC-CAM option under the Down Load Image mode which described on above "**3-10. Down Load Images / Videos to PC**" by pressing DOWN key. When you are the 1st time to entry to PC-CAM mode, a special driver will be required to install first. You need to contact your local dealer to get a link for down loading the proper driver before using this feature.

CAUTION: This function is not a feature related to scouting operation. Also, it is not often used even for experienced users. So that you may ignore this paragraph.

5-8. Start for Scouting Game

After the tailor made setting and mounting to be done, now you can leave it in the field for starting trail for wildlife. Don't forget to switch back to the PW-ON position after finished a walk-test check before you try to leave for going home.

CAUTION: Before left, be sure to double check if the door is closed completely and the stopper is remaining on the rest Ext-Port.

Trouble Shooting

1. **There is no Red Glow viewed and always got Black Picture in dark environment:** Need to check the LIGHT setting in the MENU state. Be sure it is ON
2. **I can not shut down the device after done for a voice recording:** You have to switch back to the Welcome mode first before trying to shut down the camera.
3. **My camera always shut down itself when trying turn it ON:** It seems the batteries might be very poor that could not able to support for retaining ON. Try to replace new sets battery to see if you can enter to the Welcome mode. At this moment, you will also see the BAT icon is blank.
4. **Seems not too much help even an external booster is using:** Investigate if a current angle of the external booster might not the same as the camera lens. You have to test in difference angle for the best result. Of course you need to prove the batteries are not poor before you try to do further testing. Also, check if you have turned off the internal LIGHT already. In case you are using an external Black Flash Booster, it is recommended to add more sets for better illumination.
5. **Can not Power ON after using an external power pack:** Check the polarity of the power plug first and then check if the plug is inserted to the proper port. You might plug it into the EXT-IR Booster Jack incorrectly.
6. **Can not Power ON after using 4 pcs batteries:** Check if all batteries are put together in the same bank either on upper or lower. Also, be sure all of them are still in good condition.
7. **Can not Power ON after I just took it from scouting place:** You may turn it back ON too quickly. Try to wait for more than 5 seconds after PW-OFF and back ON.
8. **TV screen become black and the camera seems to be OFF itself during viewing image or videos suddenly:** It is because the camera does not detect the current TV or HDMI mode correctly due to the cable plug might be loosed or not well contact accidentally. Just slide the PW to OFF for 5s and back ON. Every times to plug in the cable, be sure the TV-NTSC or HDMI appearing on the LCD in order to prove the camera is working at the correct mode.
9. **How can I get more pictures against a small animal like raccoon; hare?** Try to mount the camera at 0.5~0.7 meter height on a tree.
10. **No sound come with the video clips:** The MIC setting may be set for OFF. Enable it for ON from the MENU state.
11. **Why are every things displayed on TV mode (Not HDMI) without color?** It might be caused by improper setting of TV signal format. Try to change for another setting like TV-PAL <> TV-NTSC. If it is still fail, you have to change your TV set to be the NTSC to match the signal protocol with the camera.
12. **All key buttons are failed to response since PW-UP after just installed with new batteries even LCD can display the Welcome page:** It seems the camera might halt which is caused by an improper battery installation processing. Now you have to turn the PW-Off, uninstall all of batteries and try again after 10s. To avoid this problem, please switch OFF the PW before replacing or put in with the new batteries.
13. **How I can get brighter images?**
You can set the Shutter speed to LOW from the MENU. This setting may cause an moving animal with more blur.
14. **Why I can't see a time stamp on videos?**
At first, you have to check the Stamp option in the MENU to be ON setting. If it is correct, you need to check the MPEG-4 in the MENU to be ON also. Motion JPEG format does not support Stamp on video.
15. **Why were all images upside-down?**
Be sure you forgot to push back the PW knob to the "ON" mode before you left. But you can use this way to capture if you will mount the WildSpy Cam on the room ceiling or a special need of outdoor application which is required the camera to be upside-down mounting.

Important Note:

Please consult your dealer if you have any technical questions or problem while you use the product before you request to send back for repairing. Most of problem issues may easily be solved with help from the telephone support.