HS410

High Performance Camera

User's Manual

Contents

1. Getting Started

1.1 What is in the Box?

1   HS410 Camera with 8 GB SD card

1   Nylon Mounting Strap

1   USB Cable

1   TV Cable

1   User's Manual

1.2 Quick Start Guide

Step 1: Insert the batteries

IMPORTANT: The camera operates on 8 AA batteries (4 in the camera and 4 in the mounting bracket)

Open the latches on two sides to remove camera from mounting bracket. Unscrew the battery door at the bottom of camera. Press the "PUSH" cover and install the first set of 4 AA batteries into camera in correct direction, as shown in (3) and (4) below.
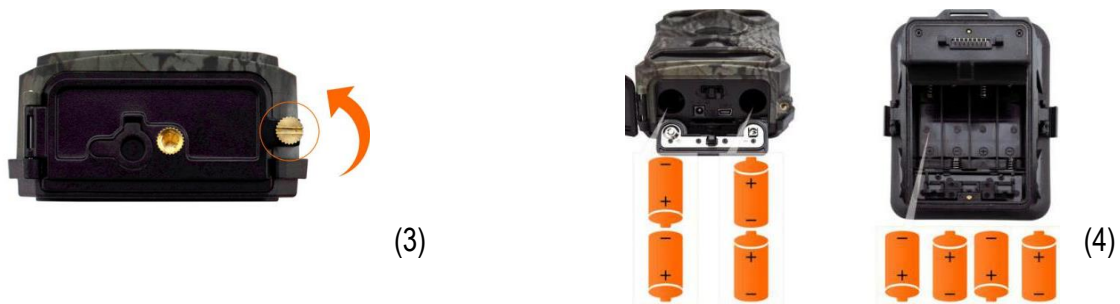

(1)

(2)

For the second set of batteries, open the battery cover on the mounting bracket and install 4 AA batteries as shown below.

(3)

(4)

Step 3: SD card

Before turning on Power, install the SD card in the slot located behind the camera battery door as shown below. Do not force the card into the slot. Push in until it catches into place. Push again to make it pop out for removal.

SDHC — UNLOCK

Step 4: Initial Set-up and Operation

You are now ready to <u>enter or change settings</u> on your camera:

1. Turn "Power Switch" to ON
2. Press "OK" button once to turn on the camera display
3. Press "M" (Menu) button to enter the **Menu Mode**
   a. See 1.3 for Menu structure and camera default settings
4. When initializing camera, set date, time, and battery type (see Section 4.3)
5. Use 4 "Arrow" buttons for navigation
6. Press "M" (Menu) button until exiting Menu Mode
7. Turn "Power Switch" to OFF

To <u>operate</u> your camera:

1. Turn "Power Switch" to ON
2. Red light on front of camera will flash for 5 seconds
3. Camera is now in **Operating Mode**, ready to take pictures and/or videos

1.3 Menu Structure (Camera Default Settings in Red)

Cam
- **Cam ID** — OFF/ON
- **Cam Mode** — Photo/PIC+Video
- **Image Size** — 5MP/8MP/12MP
- **Night Mode** — Balanced / Min Blur / Max Range
- **Multi-shot** — 1P/2/3/4/5P
- **PIC+Video / Video ON**
- **Video Size** — 1080P/720P/D1
- **Video Length** — 05~59 Secs

PIR
- **Sensitivity** — High/Mid/Low
- **Delay** — OFF/ON
- **Time Lapse** — OFF/ON
- **Timer** — OFF/ON

Other
- **Language** — English...
- **Date/Time** — Mo:Day:Yr / hr/min/sec
- **Time Stamp** — OFF/ON
- **Battery Type** — Alkaline/NiMH
- **Frequency** — 50Hz/60Hz
- **SD Cycle** — OFF/ON
- **Reset** — Yes/No
- **Password** — OFF/ON(6 digits)
- **About** — Firmware version

2. Camera Details

2.1 Figure 1: Front View of Camera

*25 IR LEDs

Indicator Light

Light Sensor (day/night)

Lens

PIR Sensor

*31 IR LEDs
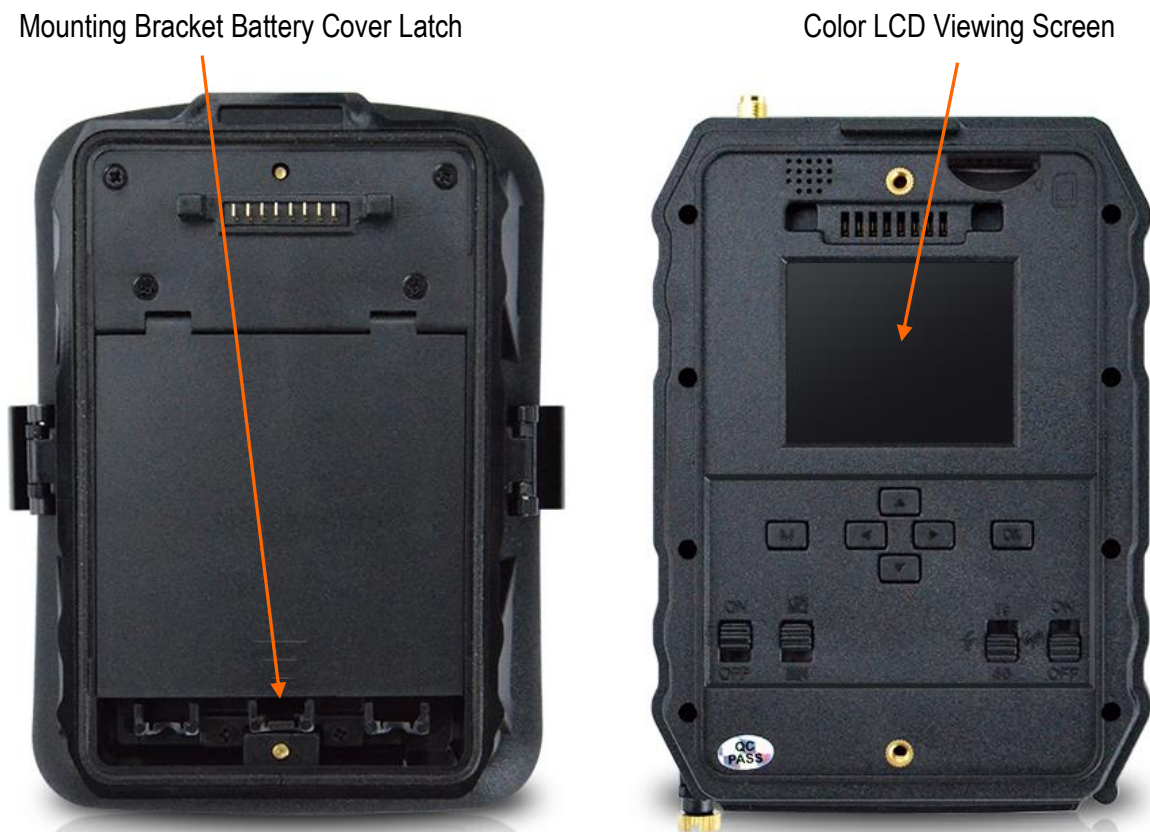
*The bottom 31 IR LEDs can be turned on and off, allowing for 56 total LEDs

2.2 Figure 2: Bottom View of Camera

Battery Slots

Push slightly to open this cover

PUCH

DC in   SD Card Slot   USB Port   TV Out

2.3 Figure 3: Internal, Mounting Bracket and Back View of Camera

Mounting Bracket Battery Cover Latch   Color LCD Viewing Screen

2.4 Function Switches

Camera/Video Switch

GPRS Switch (not available)

Power Switch

IR LEDs Group Switch

Power Switch	**A. To operate camera:** 1) Move switch to ON position to enable camera. The red indicator light on front of camera will flash 5 times. The camera is now in **Operating Mode**, ready to take photos and/or videos. **B. For Status Screen:** 1) Move switch to ON; then press "OK" button to display Status Screen. 2) Status Screen will show battery charge condition, Pic/Video mode, image size, multi-shot setting, and SC Card status (amount used / total capacity). **Note: While viewing Status Screen, after 60 seconds of inactivity the camera will automatically enter Operating Mode.** **C. To change settings:** 1) Move switch to ON. Press "OK" once to turn on Status Screen. Then press "M" menu button to enter **Menu Mode** (see Section 4.3 for Menu instructions). 2) To exit Menu Mode, press "Menu" button (may require multiple "Menu" button presses depending upon menu location) until Status Screen is shown. 3) Switch OFF to turn camera off.
Video/Photo Switch	Move switch up to camera icon for still images or for PIC+Video mode (see Section 4.3 for selection instructions). Move switch down to video icon for Video Recording mode.
IR LEDs Group Switch	Move switch up to engage the upper 25 IR LEDs or down to engage all 56 IR LEDs.

3. Introduction

3.1 Your HS410 High Performance Camera

Congratulations for choosing your Recon Outdoors HS Series Camera. Recon Outdoors, a pioneer in the development of ruggedized infra-red digital scouting cameras, has provided thousands of satisfied customers with state-of-the-art field cameras and personalized customer service to match.

Your new HS410 is setting a new benchmark for reliability and performance. You will appreciate its industry leading features along with user-friendly setup and operation. And, you will be amazed at its crystal-clear photos and videos. The HS410 is simply the best camera we have ever made. Some of the camera's key features include:

Trigger speed 0.4 seconds
56 Dark IR LEDs – no visible flash
Flash range greater than 90 feet
Selectable flash for minimum blur, balanced, or maximum range
PIR detection range up to 100 feet
Picture image size up to 12 megapixels
Video resolution up to 1080p
2-inch TFT color LCD
Selectable functions: IR range, time lapse, delay, video length
Waterproof certified to IP54 rating
Operating temperature -13°F to 140°F
8 AA batteries for extended life (not included)
Supports SD card up to 32 GB (8 GB card included)
Included accessories: mounting strap, USB cable, TV cable

3.2 Applications

Not only is the HS410 Camera a superior product for scouting wild game, it is an ideal product for security and surveillance with its compact size and camouflage appearance. It is convenient to install with several mounting methods and its capturing capabilities include taking photographs using PIR movement sensing, manual exposure, time lapse, and video capture.

3.3 Power Supply

3.3.1 Batteries

The HS410 runs on 8 AA size batteries. While alkaline, lithium, and high-quality rechargeable batteries can be used, Recon Outdoors suggests using lithium or rechargeable batteries for maximum battery life and camera performance.

Caution: The warranty policy does not cover damage caused by battery corrosion. It is recommended that batteries be removed when camera is being stored or is not in use for an extended period.

Eight batteries must be installed (four in camera and four in mounting bracket) as shown in the Quick Start Guide in the front of this manual. Incorrectly installed batteries will cause device malfunction.

Caution: Do not mix batteries types! Using different battery types in the camera may cause permanent damage which is not covered by the warranty policy.

Due to different settings, objects activities within camera detection zone, different brands and quality of batteries, and environment usage, etc., it is not possible to determine the exact number of photos and videos that the camera can capture. The table below only shows the approximate number of photos or videos the camera can take with 8 AA alkaline batteries. Again, better performance can be achieved with 8 AA lithium or 8 AA rechargeable batteries.

Test Condition: LCD screen off. Mode: "Power ON" - PIR automatically monitoring					
8 AA Alkaline Batteries					
Photos shot per day		**Working time**	**Video clips shot per day**		**Working time**
IR LEDs ON					
Max Range	100 pics	36 days	10secs video clips	10 clips	37 days
Balanced	100 pics	31 days			
Min Blur	100 pics	21 days			
IR LEDs OFF					
Photo	100 pics	89 days	10secs video clips	10 clips	179 days

3.3.2 Rechargeable Batteries

If rechargeable batteries are used, they must be removed from the camera to be recharged.

3.3.3 External Power Source

The camera can also be powered by an external 12V/2A DC adapter. For surveillance applications this will provide a continuous power source.

Caution: Always remove internal AA batteries when using an external power source.

3.4 SD Card Selection

Using a memory card is required to operate the camera. The HS410 supports SD cards of up to 32 GB capacity.

Caution: Before inserting or removing the memory card, the camera must be turned "OFF." Failure to do so may cause loss of or damage to pictures and videos recorded on the memory card.

To assist in determining which size card will best fit your needs, the following data shows an approximate quantity of photos or videos which can be recorded by the camera depending on the memory card capacity.

SD Card Size Capacity	1GB	2 GB	4 GB	8 GB	16 GB	32 GB
Photo (pictures)						
5MP	869	1631	3585	7492	15307	30936
8 MP	556	1041	2294	4798	9794	19795
12 MP	391	733	1613	3371	6887	13919
Video (hours)						
640x480	00:05:27	00:10:13	00:22:28	00:46:57	01:35:56	03:13:52
HD	00:03:56	00:07:23	00:16:13	00:33:53	01:09:14	02:19:56
FHD	00:02:04	00:03:53	00:08:31	00:17:48	00:36:20	01:13:21

3.5 USB Connection

Photos and videos may be viewed on a computer via the USB connection. When the camera is connected to a computer, the camera screen will display "MSDC." Press "Menu" once, "MSDC" turns to "PC Cam" for viewing on a computer. Press "Menu" again, the camera will exit the PC camera mode.

3.6 IMPORTANT

1) Insert and remove the SD memory card only when the camera is turned OFF.

2) Eight (8) AA batteries must be used for the camera to function properly.

3) When using an external power source (12V/2A), the internal AA batteries must be removed from the camera.

4) When displaying the Status Screen, the camera will automatically enter Operating Mode if no keys are pressed within 60 seconds.

5) The date and time must be set to ensure some camera functions will work as expected.

4. Operation

4.1 To Operate Camera

Move Power Switch to ON. The red indicator light on front of camera will flash 5 times. The camera is now in Operating Mode, ready to take photos and/or videos.

For Status Screen, move Power Switch to ON; then press "OK" button to display Status Screen. The Status Screen will show battery charge condition, Pic/Video mode, image size, multi-shot setting, and SD Card status (the amount used / total capacity). Note: While viewing the Status Screen, after 60 seconds of inactivity the camera will automatically enter Operating Mode.

4.2 Photo/Video Viewing and Deleting

4.2.1 Viewing

To view photos and videos:

1) Switch ON "Power Switch", Press "OK" once to turn on display, press arrow button "↑" to enter Playback Mode; press "←" and "→" for selection, "OK" to view photo/video.

2) Press button "↑" again to exit.

3) In Playback Mode, press "Menu" button to delete files, or format SD card (see below); press "Menu" again to exit.

4.2.2 Deleting

To delete one selected photo/video, in Playback Mode press "Menu" button:

1) Press "OK" to choose, press "↑" and "↓" for selection, "Yes" to confirm, "No" to exit to previous page.

2) Delete All.

4.2.3 Format SD Card

To permanently delete all data from SD card, in Playback Mode press "Menu" button:

1) No

2) Yes: to format SD card via camera.

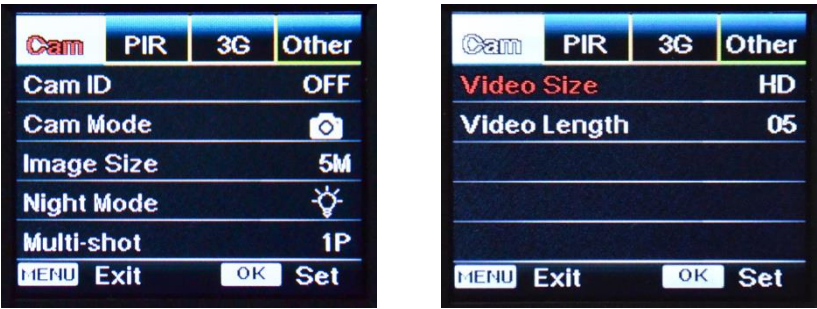3) Press "←" and "→" for selection, "Yes" to confirm, "No" to exit to previous page.

4.3 Menu Mode (listed by Menu order)

Turn Power to ON; press "OK" button once to turn on display; press "M" (Menu) to enter Menu Mode. To navigate setting interface press "←", "↑", "→", or "↓"; press "OK" for selection. Press "Menu" to exit to previous page, and "Menu" to switch alpha / digits / symbols.

Menu   Menu Navigation   OK / Operating and Menu Mode

Note: To save changes to settings, after pressing "OK" to confirm, press "Menu" button (may require multiple "Menu" button presses depending upon menu location) until Status Screen is shown.
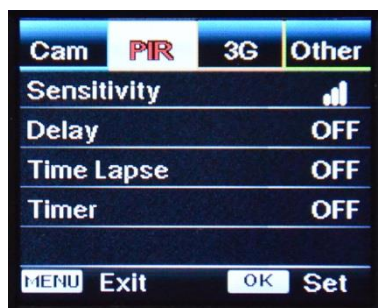
- **Cam**

Settings	Programmable Options
Cam ID	To label photos with four-digit alpha numeric characters: Select "ON", press "OK", to set a 6-digit alphanumeric ID for the camera. The camera ID will be displayed at the bottom of captured photos (with "Stamp" turned ON).
Cam Mode	Sets the camera to take photos only or video along with photos at a trigger event: 1) Switch ON "Photo/Video Switch" to Pic icon—Photographing mode, or PIC + Video mode; 2) Select "PIC+VIDEO", camera shoots photo(s) first, then video upon same trigger event based on Video Length and Multi-shot user configured. 3) Switch Down "Photo/Video Switch" to Video icon—Video Recording only

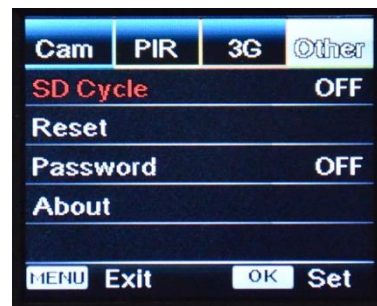|	
Image Size	Sets the size of the photo image file on the camera: 5MP (2592 x 1944), 8MP (3264 x 2448), 12MP (4032 x 3024)
Night Mode	1) Min. Blur: Short exposure time to minimize motion blur; shortened IR flash range 2) Max. Range: Longer exposure time to extend IR flash range to maximum 3) Balanced: combination of above two options
Multi-shot	Sets camera to take multiple photos (1 to 5) at a trigger event
Video ON
Video Size	Sets the size of the video resolution: 1280 x 720, 640 x 480, 1920 x 1080
Video length	Sets the length of the video at a trigger event: from 5 to 59 seconds

- **PIR**

Settings	Programmable Options
Sensitivity	High, Middle, Low Higher sensitivity is 1) more sensitive to movements by smaller subjects; 2) has a longer detection distance; 3) in higher ambient temperatures it is easier for sensor to detect difference between body heat and the ambient temperature. High sensitivity can also be more susceptible to false triggering, in which case the sensitivity setting should be lowered to Middle or Low.
Delay	Sets the time that the camera will wait between trigger events in order to avoid taking too many photos or videos. For example, the camera will wait 1 minute between photo/video recordings with motion if delay is set at 00:01:00: Select "ON", press "OK"; configurable delay time is 00:00:03 to 23:59:59. **Caution: Do not turn on Delay and Time Lapse simultaneously!**

Time Lapse	Sets a time the camera will automatically capture a photo between 3 seconds to almost 24 hrs. Select "ON", press "OK" to set the interval. **The PIR sensor will be turned off.** Configurable interval: 00:00:03 to 23:59:59. **Caution: Do not turn on Time Lapse and Delay simultaneously!**
Timer	Select "ON", press "OK", to set the beginning time and end time (hour/minute). The camera will only operate during the time period set.

- **Other**

Language	Default setting is English.
Date/Time	Month: day: year; hour: minute: second (time is entered in 24-hour format); press "OK" to save. **Caution: Date/Time must be set to ensure some camera functions will work as expected.**
Stamp	Sets the camera to imprint camera ID, moon phase, temperature, date, and time onto the bottom of captured photos. Select ON or OFF; then press "OK" to save.
Battery Type	Choose the battery type being used to ensure optimum camera performance. Alkaline (for alkaline or lithium); or Ni-MH (for rechargeable); then press "OK" to save.
Frequency	Sets the camera frequency for video capture to avoid screen flicker. North American televisions use 60Hz frequency rates. 50Hz or 60Hz (select 60Hz for North America); then press "OK" to save.
SD Cycle	When turned ON, the camera will delete the oldest photos/videos when SD card becomes full. Select ON; then press "OK" to activate the SD Cycle feature.
Reset	This feature resets all camera settings to original factory defaults (see Section 1.3). Select Yes; then press "OK" to reset camera settings to factory defaults.

Password	This feature disables access to the Menu Mode and playback features by requiring the entering of a six-digit security password.
	Select ON to enable password protection; enter 6-digit alphanumeric; then press "OK" to save.
	Caution: Do not lose your password!!
About	This is the firmware version in the camera (Version: / IMEI: / MCU:).

5. Specifications

Image Sensor	5 Mega Pixels Color CMOS
Image – Pixel Resolution	2560 x 1920
Day/Night Mode	Yes
IR Range	> 90 feet
Memory	SD Card (8 MB to 32 GB)
Operating Keys	10
Lens	F=3.0; FOV=52°; Auto IR-Cut-Remove (at night)
LCD Screen	2-inch TFT, RGB, 262k
PIR Sensitivity	3 sensitive levels: High / Normal / Low
PIR Detection Range	80 feet
PIR Angle	70°
Picture Size	5MP/8MP/12MP = 2592x1944/3264x2448/4032x3024
Picture Format	JPEG
Video Resolution (selectable)	1080P (1920x1080): 15FPS, 720P (1280x720), 640x480
Video Format	AVI
Video Length	5 to 59 seconds, programmable
Multi-shot	1 to 5
Trigger Speed	0.35~0.45 seconds
Trigger Interval	4 to 7 seconds
Camera + Video	Yes

Device Serial Number	Yes
Time Lapse	Yes
SD Card cycle	ON / OFF
Operation Power	12 VDC
Batteries – Number and Type	8 AA
External DC	12 VDC / 2A
Stand-by Current	0.173 mA
Power Consumption – IR LEDs Off	Photo: 120 mA; Video: 110 mA
Power Consumption – IR LEDs On	Photo:
	Max Range: 670 mA
	Balanced: 850 mA
	Min. Blur: 1050 mA
	Video: 670 mA
Low Battery Alert	8.8V: Alert; 8.6V: Power off; DC: Power off: 7V
Interface	TV out / USB / SD Card / DC Port
Mounting	Strap; Tripod
Operating Temperature	-13°F to 140°F
Storage temperature	-22 °F to 158°F
Operation Humidity	5% to 90%
Waterproof Specification	IP54
Dimensions	5.17 x 3.88 x 3.05 inches
Weight	404g (0.9 pounds)
Certifications	CE; FCC; RoHS

6. Tips and Trouble Shooting

6.1 Tips

1) **VERY IMPORTANT:** Always face camera away from the sun. The rising or setting sun and the heat from the mid-day sun can cause "false triggers."

2) In some cases, pointing the camera toward or near water will cause the camera to take images with no subject in them (false triggers). Try aiming the camera over ground.

3) Avoid mounting the camera on small trees or unstable bases. Winds can cause the camera to move which can result in false triggers.

4) Remove any limbs or other vegetation in front of the camera lens. Motion of these objects causes the camera to capture pictures with no field subject (false triggers).

5) Always mount the camera at least 3 to 5 feet above the ground, pointing to the anticipated height of the targets.

6) The optimum trigger distance is 20 to 25 feet. When possible, place the camera in a location where the anticipated traffic area is at this distance.

7) Do not have heat generating devices within the detection zone of the camera. Examples of these can be automobile traffic, air conditioners, or exhaust vents.

8) PIR Sensitivity should be set to HIGH for best results in warmer weather.

6.2 Trouble Shooting

6.2.1 Photos Do Not Capture Subject of Interest

1) Check the PIR Sensitivity setting. For warm environmental conditions, set the Sensitivity level to "High." For cold weather use, set the Sensitivity level to "Low."

2) Try to set your camera up in an area where no heat sources are in the camera's field of view.

3) In some cases, aiming the camera toward water will cause the camera to false trigger. Try to aim the camera over ground.

4) Ensure that the camera is mounted on a stable and immovable base, such as a large tree.

5) At night, the motion detector may detect movement beyond the range of the IR illumination. To correct this, reduce the PIR sensitivity setting.

6) If a person or animal moves very quickly, it may move out of the camera's field of view before a photo is taken. Move the camera further back or redirect camera.

6.2.2 Camera Stops Taking Images or Won't Take Images

1) Ensure that the SD card is properly installed and is not full. If the card is full, the camera will stop taking images. Turning the SD Cycle to "ON" will automatically delete the oldest photos or videos when the SD card becomes full.

2) Check that batteries are fresh and have a full charge.

6.2.3 Night Vision Flash Range Does Not Meet Expectations

1) Four (4) AA batteries will not support the camera's night vision ability; ensure that 8 AA batteries are installed.

2) Batteries must be fully charged or have enough power for operation of the LEDs.

3) Adjust Night Mode to Max Range for best night vision flash range.

4) High-quality 1.5V rechargeable AA batteries or lithium batteries will provide optimum IR flash range performance. Alkaline batteries may not deliver enough amperage to power the IR illuminator consistently at night.

5) To ensure accuracy and quality of night time images, mount the camera away from any obvious light sources.

6) Certain surroundings (like trees, walls, ground, etc.) within the flash range will provide better night time images. Aiming the camera toward a totally open area, where there is nothing to reflect back, tends to result in less flash range and lower quality images.

6.2.4 Camera Location Seems to be Susceptible to False Triggering

1) Make sure the camera is not aimed at the sun. False triggers can be generated by the infra-red (IR) energy from the sun. This is particularly true at sunrise or sunset and during heat from the mid-day sun.

2) Check the "Sensor Level" (PIR sensitivity) parameter setting. For warm environmental conditions, set the Sensor Level to "High" and for cold weather use, set the sensor for "Low".

3) Try to set your camera up in an area where there is not a heat source in the camera's line of sight.

4) Try to avoid setting the camera up on small trees that are prone to being moved by strong winds.

5) Remove any limbs or other vegetation that are in front of the camera lens.

7. Limited Warranty

Pentar, LLC ("Recon Outdoors") warrants the original retail purchase that product(s) made by Recon Outdoors and related Recon Outdoors accessories (individually a "Product" and collectively the "Products") that were purchased directly from Recon Outdoors or an authorized will be free from defects in materials and workmanship under normal use and service for a period of one year from the date of initial retail purchase. If any Product proves to be defective, the customer must return the defective product to the address listed below, following the procedure set forth below. However, it is recommended that the customer first call Recon Outdoors' Consumer Service Department at 1-800-647-3266, to attempt to determine the nature of the problem. Recon Outdoors, at its sole discretion, will repair, replace, or adjust the defective Product, provided that Recon Outdoors investigation and factory inspection disclose that (a) such defect developed under normal and proper use and (b) the Product is covered under this limited warranty. Repair, replacement, or adjustment of defective Products shall be Recon Outdoors' sole obligation and the customer's sole remedy hereunder. The customer shall pay for shipment of the Products to the Recon Outdoors Service Center. When service is completed, the Product will be returned to you via ground service freight prepaid. Recon Outdoors shall not be obligated to perform preventative maintenance, installation, de-installation, upgrades,

or maintenance. Recon Outdoors reserves the right to (i) use reconditioned, refurbished, and/or serviceable used parts for warranty and any other repairs and (ii) make any internal or external design and/or feature changes on or to its products without any liability to incorporate such changes on or to the Products.

Excluded from this limited warranty and not warranted by Recon Outdoors in any fashion, either express, implied, or by statute, are:

(a) products and accessories not manufactured by Recon Outdoors and/or not bearing the "RECON OUTDOORS" brand label (the warranty coverage for products and accessories of other manufacturers, which may be distributed by Recon Outdoors, is the responsibility of the manufacturer of such products and accessories in accordance with the terms and duration of such manufacturers' warranties);

(b) Any Product which has been disassembled, repaired, tampered with, altered, changed, or modified by persons other than Recon Outdoors' own authorized service personnel;

(c) Defects or damage to the Products resulting from wear, tear, misuse, abuse, negligence, modification, accident, dirt, sand, liquids, impact, improper storage, improper installation, non-performance of scheduled operator and maintenance items, battery leakage, or use of non-"RECON OUTDOORS" brand accessories, consumables, or supplies;

(d) Supplies and consumables (including but not limited to batteries); and/or

(e) Products which do not contain a validly placed and recorded Recon Outdoors serial number.

Except for the limited warranty set forth above, Recon Outdoors makes no, and disclaims, all other representations, guarantees, conditions, and warranties concerning the Products, whether direct or indirect, express or implied, or arising under any statute, ordinance, commercial usage or otherwise, including but not limited to any warranty or representation as to the suitability, durability, design, operation, or condition of the Products (or any part thereof) or the merchantability of the Products or their fitness for a particular purpose, or relating to the infringement of any patent, copyright, or other proprietary right used or included therein. If any implied warranties apply as a matter of law, they are limited in duration to the length of this limited warranty. Some states may not recognize a disclaimer or limitation of warranties and/or limitation of liability so the above disclaimers and exclusions may not apply. The customer may also have different and/or additional rights and remedies that vary from State to State.

The customer acknowledges and agrees that Recon Outdoors shall not be responsible for any damages that the customer may incur from delayed shipment, product failure, product design, selection, or production or from any other cause, whether liability is asserted in contract, tort (including negligence and strict product liability) or otherwise. In no event shall Recon Outdoors be liable for any indirect, incidental, consequential or special damages of any kind (including without limitation loss of profits or loss of use), whether or not Recon Outdoors shall be or should be aware of the possibility of such potential loss or damage.

Representation and warranties made by any person, including but not limited to dealers, representatives, salespersons, or agents of Recon Outdoors, which are inconsistent or in conflict with or in addition to the terms of this limited warranty, shall not be binding upon Recon Outdoors unless reduced to writing and approved by an expressly authorized officer of Recon Outdoors.

This limited warranty is the complete and exclusive statement of warranty which Recon Outdoors agrees to provide with respect to the Products and it shall supersede all prior and contemporaneous oral and written agreements, understandings, proposals, and communications pertaining to the subject matter hereof. This limited warranty is exclusively for the benefit of the original customer and cannot be transferred or assigned.

When eligible service is needed, package the Product carefully using ample padding material to prevent damage in transit and ship it postage prepaid and insured to the Recon Outdoors Service Center listed below:

Recon Outdoors

Attention: Camera Service Center

2102-A West Ferry Way

Huntsville, Alabama 35801

When returning Products for service, your package <u>must</u> include the following:

1. (a) Original sales receipt showing date and place of purchase, or (b) a warranty registration on file with Recon Outdoors (this can be accomplished at www.ReconOutdoors.com). One of these will be required for in-warranty service.
2. A detailed description of the problem.
3. A contact name, telephone number and email address.
4. Owner's name and street address where repaired camera is to be shipped.