



Vigilant Hunter®

Instruction Manual



Model: MB500

GSM Cellular Camera Model

PLEASE READ CAREFULLY BEFORE USING CAMERA

Thank you for Purchasing your UWAY Camera

The UWAY Vigilant Hunter is a high quality digital surveillance camera. It has been precisely engineered and tuned to provide you with optimal and consistent performance. This camera will provide high quality digital pictures and sound recording video for applications such as home, cabin, and business surveillance and animal monitoring for hunting and research. It features a highly sensitive Passive Infra-Red (PIR) motion sensor and numerous setting options to tailor the camera to your particular needs.

Item Check List	<ul style="list-style-type: none">• Camera• USB cable• Nylon mounting strap• Warranty Card
Needed for Operation	<ul style="list-style-type: none">• Twelve (12) AA Lithium/Alkaline or NiMH Rechargeable Batteries• SD or SDHC Card (up to 32G)• GSM Cellular SIM Card (for cellular mode)

*It is recommended to use Lithium or High Quality NiMH in MB500 camera to maximize camera performance and battery life.

SPECIAL HANDLING PRECAUTIONS

CAMERA:

The camera has been finely tuned. Avoid dropping and physical shock.

The camera is designed for typical weather conditions. It is not waterproof for use underwater.

Carefully clean debris from camera lens, PIR, and LED platform. Avoid use of cleaning solvents.

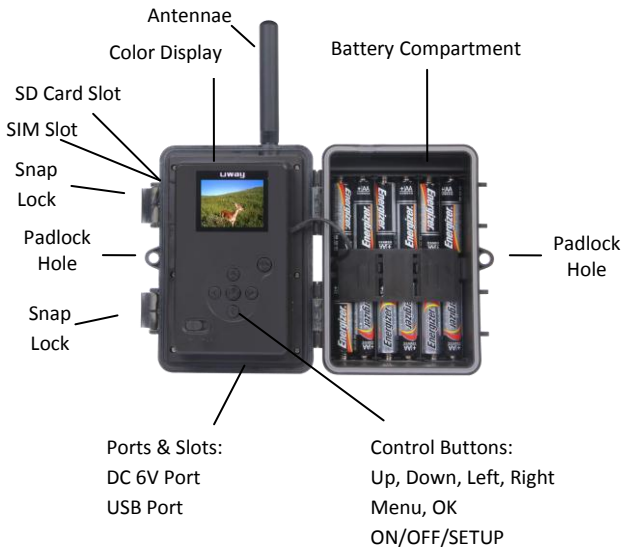
The camera contains precise electronic equipment. Do not attempt to open camera case yourself.

Condensation may form on lens and electrical components when bringing into warm room from cold. To avoid this, first place camera inside a sealed plastic bag before bringing into warm room temperature. If condensation forms, remove SD card and batteries until camera is dry.

Remove batteries when storing camera. Removing batteries from the camera during storage reduces the risk of battery acid leakage and battery drain.

Do not mix old and new batteries together in the camera.

LCD SCREEN: Avoid exposing screen to direct sunlight or at high temperatures as LCD damage may occur.



CELLULAR INFORMATION:

This camera contains a GSM cellular module to transmit pictures directly from the camera to your cellular phone and/or email address. It supports MMS/SMS/E-mail via GSM network. It supports four network bands: 850MHz, 900MHz, 1800MHz, and 1900MHz.

A SIM card from a GSM provider is required to transmit photos. Photos are transmitted via MMS or GPRS. Cellular charges will apply for sending photos and potentially receiving photos/emails.

Photos are compressed to 640 x 480 resolution to transmit over the network, while the full mega-pixel photo is saved to the SD card for future viewing.

MOUNTING CAMERA:

This camera is designed to use the UWAY Bracket (sold separately) to obtain maximal mounting versatility. Camera can be securely locked with cable lock (through camera, bracket, or both) or security box (with or without bracket).

Camera can be mounted with nylon strap (included) or security box (sold separately).

It is recommended to mount the camera 3 feet high overlooking desired area and ~30 feet away from target area for maximum sensitivity in most situations. Adjustments may be required depending on animal size and environment. PIR motion detection distance changes based on ambient temperature and setup. Higher ambient temperatures will reduce PIR motion detection range thereby requiring camera to be closer to desired location. Mounting camera too high or angling camera may result in animal or humans going under or above the PIR motion detection range.

Angle the camera perpendicular to the ground to maximize the IR lighting potential. Mount at 45° degree angle to trails to maximize detection angle. Using UWAY Bracket (sold separately) provides optimal versatility when mounting the camera. UWAY XtendIR (sold separately) will significantly increase night IR lighting distances out to 60-100 feet.

GETTING STARTED

SD MEMORY CARD

The camera supports both SD and SDHC memory cards up to 32 GB. **The camera does not have any internal memory and will not turn ON without SD card inserted.**

1. Open camera
2. Insert SD card with marked side facing front of camera
3. Push gently until card clicks into place
4. Push card again to remove

Note 1: Ensure SD card is NOT in locked position.

Note 2: Format SD card in camera before using each time. This will create a file on the SD card where the camera will save images to.

Note 3: It is always recommended to test the SD card by taking some pictures to ensure SD card works properly before leaving camera for extended periods of time.

WARNING: Make sure camera is OFF when adding or removing SD memory card.

BATTERIES

This camera is designed for Lithium/Alkaline or Nickel Metal-Hydride (NiMH) batteries. An AC to DC power cord (sold separately) can be attached to the bottom port of the camera.

Insert 12 AA batteries while ensuring polarity (+ -) is correctly orientated.

Note: 6V or 9V DC power can be used with or without batteries inserted. External power bypasses the batteries when 6V or 9V power is connected. Solar panels DO NOT charge batteries directly located in the camera.

WARNING: Do not use 12V external battery power as camera damage will occur.

CHECKING BATTERY LEVEL

Battery level can be seen in bottom left corner of viewer screen

TESTING AND WORKING MODES

The camera has two modes: Set Mode and Work Mode.

1. Turn switch to middle position to access SET mode. The camera will enter Live Preview Mode automatically. If the camera beeps, it means either no SD card is inserted or the SD card is not inserted properly. The SD card needs to be inserted or reinserted to continue.
2. Turn switch to far right to access WORKING mode. A blue LED light will blink for 5-10 seconds before the camera is capable of being triggered by motion.

Note: The LCD screen has a built in sleep mode to save power. If LCD screen turns off, you must turn camera OFF and back to SET mode to reset.

MENU OPERATIONS AND SETTINGS

MAIN MENU

The Main Menu has 4 menu options: I. Camera Settings, II. GSM Setup, III. GPS Input and VI. Camera Information. Camera Settings will allow you to setup parameters on how you want the camera to function. GSM Setup will assist you in setting up the camera on the network, GPS Input will allow you to tag GPS coordinates to the pictures, and Camera Information will provide a summary of firmware version, photos, and video.

LIVE PREVIEW

This option allows the user to view in real time what the camera is capturing. Pictures/videos can be captured using the “OK” button while in this mode. This camera is equipped with a **Day Color Mode** and **Night IR Mode** while in Live Preview. It is recommended to minimize the use of Night IR Mode to avoid battery depletion.

1. Turn camera to SET mode and LIVE PREVIEW mode is displayed automatically. If you are already in main menu, push MENU button to enter LIVE PREVIEW mode.

PHOTO MODE

- a. Push 'Right arrow' button (you will see photo icon)
- b. Push UP Arrow to switch between Day Color and Night IR Mode
- c. Push OK button to capture pictures

VIDEO MODE

- a. Push LEFT Arrow button (you will see video icon)
 - b. Push UP Arrow to switch between Day Color and Night IR Mode
 - c. Push OK button to start and stop video capture
2. Push MENU button to return to menu

PHOTO / VIDEO PLAYBACK

This feature allows the user to view pictures and video stored on the SD card. User can pause, stop, rewind, and fast forward video during playback.

1. During LIVE PREVIEW mode push the DOWN arrow to access PLAYBACK or select PLAYBACK from CAMERA MODE in Camera Settings Menu
 2. Use LEFT and RIGHT arrow to select video or picture and push OK to select
 3. Pictures display JPG in top right corner while Videos display a film strip icon in top right corner.
 4. Follow prompts on bottom of LCD screen while in PLAYBACK mode
- ### VIDEOS

- a. Push OK to PLAY and PAUSE
- b. Push UP arrow to delete

PICTURES

- a. Push OK to SEND photo over network
 - b. Push UP arrow to delete
5. DOWN arrow returns you to LIVE PREVIEW mode
 6. Push MENU button to return to menu when in LIVE PREVIEW mode

I. CAMERA SETTINGS MENU

CAMERA MODE

This camera can be set to capture still pictures OR video.

1. Select CAMERA MODE
2. Select Capture Image for PHOTO mode, Video Record for VIDEO mode, or Playback using UP or DOWN arrow and push OK to set

PHOTO FORMAT

Picture formatting can be either Normal 4:3 or Wide Screen 16:9.

1. Select PHOTO FORMAT
2. Select NORMAL or WIDE VISION and push OK to set

PHOTO RESOLUTION

Photo resolution can be set at 8MP, 5MP or 3MP.

1. Select PHOTO RESOLUTION
2. Select desired photo resolution and push OK to set

PHOTO BURST

This feature allows the camera to take from 1-3 photos in rapid succession following each trigger.

1. Select PHOTO BURST
2. Push OK
3. Select desired number of photos per trigger and push OK to set

VIDEO RESOLUTION

Video mode includes High Definition HD 1280 x 720 or VGA 640 x 480.

1. Select VIDEO RESOLUTION
2. Select HD or VGA mode and push OK to set

VIDEO LENGTH

Video length can be set in 1 sec increments from (5s – 60s). Longer video lengths will deplete battery power and memory more quickly than lower lengths.

1. Select VIDEO LENGTH
2. Select desired video length and push OK to set

VIDEO SOUND

Video sound recording can be turned ON or OFF.

1. Select VIDEO SOUND
2. Select ON or OFF and push OK to set

QUIET TIME

Also known as, "Time Interval or Delay Time", this feature puts the camera to sleep after capturing an image for the selected period of time before it can be re-activated by motion. Times vary from 5 seconds to 60 minutes.

1. Select QUIET TIME
2. Select desired 'quiet time' and push OK to set

ILLUMINATION

This feature allows the user to use external lighting (XtendIR-B) or turn off IR lights if no lights are required in the night. User selects Internal when they want the IR lights of camera to work normally; select External if connecting XtendIR-B (sold separately) to the camera OR to turn IR lights OFF at night, and Int + Ext if both the XtendIR-B and camera IR lights are desired.

1. Select ILLUMINATION
2. Select Internal, External, or Internal + External and push OK to set

DATE / TIME STAMP

This allows the user to have the date, time, and temperature stamped onto each photo or video.

1. Select TIME STAMP
2. Select NO or YES and push OK to set

SET DATE / TIME

This feature allows the user to set the display format for date and time, as well as set the current date and time.

1. Select SET DATE / TIME
2. Select one of the three menu options:
3. Push LEFT arrow button to return to menu when finished

DATE FORMAT

- Select the desired Date Format and push OK to set

TIME FORMAT

- Select desired Time Format and push OK to set

SET DATE / TIME

- Set date and time using UP, DOWN, RIGHT and LEFT arrow and push OK to set

ACCESS CONTROL

This feature allows the user to set a 4-digit password to deter theft and render the camera unusable without the password.

Select ACCESS CONTROL

SET PASSWORD

- Select desired password using ARROWS and push OK to set

DISABLE PASSWORD

- Select and push OK to disable password

POWER TYPE

This camera is a precisely tuned instrument. It is recommended to use high quality Alkaline, Lithium or high quality NiMH batteries. Programming which batteries are present increases accuracy of battery level meter. This camera can also be connected to a 6V or 9V external battery pack (sold separately).

1. Select POWER TYPE
2. Select Lithium/Alkaline, NiMH batteries, DC 6V or DC 9V and push OK to set

FORMATTING SD CARD

Formatting the SD card **removes all files** on the memory card and prepares it for use in the camera. It is recommended that the SD card is formatted in the camera prior to each use.

1. Select FORMAT
2. Select YES to format SD card
3. Push OK to proceed with formatting SD card

TEMPERATURE

Allows the user to select either Fahrenheit or Celsius temperature settings.

1. Select TEMPERATURE
2. Select Fahrenheit or Celsius and push OK to set

DUTY TIME

This feature allows the user to program the camera to turn ON and OFF at a specified time.

1. Select DUTY TIME

SET START TIME

Set camera START time using arrows and push OK to set

SET STOP TIME

- Set camera STOP time using arrows and push OK to set
2. Push LEFT arrow button to return to menu

Note: For 24 hour activity: START: 00:00 and STOP 23:59

TIME LAPSE

This feature allows the camera to take pictures at a pre-set time interval (10 seconds to 60 minutes) and record or send them over the network.

1. Select TIME LAPSE
2. Select ENABLE to set up time lapse or DISABLE to cancel time lapse
3. Set START TIME and push OK to set
4. Set END TIME and push OK to set
5. Set DELAY TIME and push OK to set
6. Push LEFT arrow button to return to menu

DEFAULT SET

This feature resets the camera to factory default settings.

II. GSM SETUP

This menu is for setting up the cellular network. GSM setup can be accomplished either by using the Download Tool on a computer (for comprehensive settings) or by direct setup on camera (for quick and basic settings).

Using Download Tool to set up GSM

1. Insert a SD card and a SIM card into camera
2. Access GSM SETUP from Main Menu and select DOWNLOAD TOOL
3. Press OK to download the "Uway_GSM_SETUP.zip" onto the SD card
4. Use a computer to unzip the ZIP file, and then edit the "GSM_SETUP.exe" file

See the graphics below for reference

UWAY GSM SETUP

GSM

Send Mode

Off

Instant Num

Custom Num :

Daily Report :

Send Via

MMS

GPRS

Send To

Phone

Email

Both

Operator Parameter

Country:

Operator:

Camera Name

Enable

(Only A-Z, 0-9, -, _, #, /)

Recipients

Phone:

Maximum 4 numbers, use "," to separate numbers.

Email:

Maximum 4 emails, use "," to separate emails.

Remote Control

Enable

Receive Time: :

GPS Input

Enable

Longitude: (E/W)

Latitude: (N/S)

Path:

A. Send Mode:

- **OFF:** turns off the GSM cellular function; camera functions without cellular functionality.
- **INSTANT:** to send a picture instantly when the camera captures a picture.



When this option is selected, you need to set a Max Num. Max Number defines the maximum pictures that will be sent within 24 hours. For instance, 20 means the camera will only send the first 20 pictures within 24 hours regardless of the actual number of pictures captured that day.

Note: The Max Num. cannot exceed 199 in Instant mode.

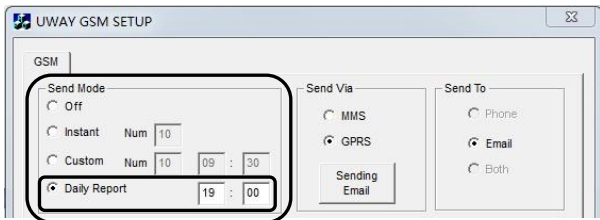
- **CUSTOM:** to send the pictures at a user-defined time in one day.



When this option is selected, you need to set Max Num. (same as above in 'Instant') and Send Time. For example, Max Num. 10 and Send Time 18:30, the camera will send the first 10 pictures taken in that day at 18:30.

Note: The Max Num. cannot exceed 50 in Custom mode.

- **DAILY REPORT:** to send a SMS (text message) report at a user-defined time. The report includes total picture/video number captured during the past 24 hours, the battery level and remaining storage space.



B. Send Via:

The camera provides two solutions, i.e. MMS or GPRS, to send the pictures to the desired phone numbers and email addresses.

- MMS: uses MMS cellular plan

If MMS is selected, pictures will be sent to the preset phone numbers (maximum 4 numbers allowed) and email addresses (maximum 4 addresses allowed) or both phone number and email address (use semicolon ";" between each phone number and email address).

- GPRS: uses Data cellular plan

If GPRS is selected, pictures will be sent from one preset sending email address to one or multiple email addresses via GPRS network using the SIM card data plan.



When GPRS is chosen, there is a reminder to ask the user to set the Sending Email. Click the "Sending Email" button; there would be another pop-up dialog box as shown below:



The image shows a dialog box titled "Set Sending Email". It contains the following fields and values:

Field	Value
Email	info@uwaytechnology.com
Account	info
Password	*****
SMTP Server	smtp.uwaytechnology.com
SMTP Port	25

Buttons: OK, Cancel

Complete the above information and click "OK" to save. This email address will be the "Sender" email.

Note 1: the "Email" needs to be the full email address, **"Account" only needs the account name, domain name is not needed.**

Note 2: **DO NOT use email addresses that have SSL or TSL restriction in order to send emails**, this kind of email server will block the camera GPRS function from sending pictures through their server.

C. Send To:

This is to set the destination where the MMS/GPRS goes to.

- Phone: pictures to phone numbers (maximum 4 numbers)
- Email: pictures to email addresses (maximum 4 numbers)
- Both: pictures to both phone numbers and email addresses.

NOTE: the 'Both' and 'Phone' options are only possible for MMS, not for GPRS. GPRS pictures can only be sent to email addresses (not phone numbers).

D. Operator Parameter:

The manufacturer has pre-set the parameters of some operators worldwide into the camera; user needs to select one of the operators as shown below:

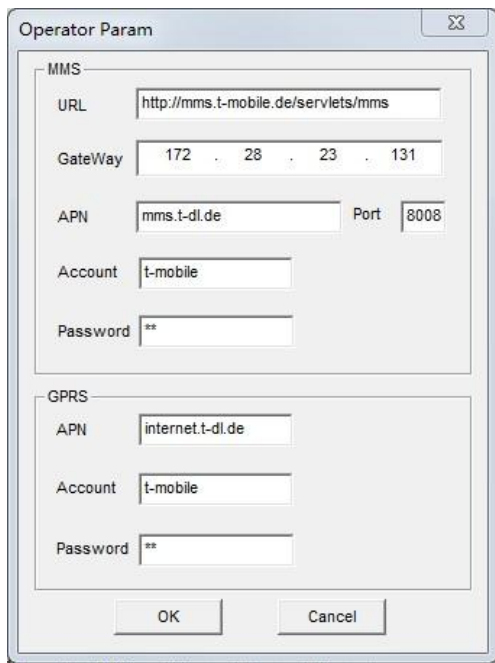
The screenshot shows the 'UWAY GSM SETUP' window. The 'Operator Parameter' section is highlighted with a red box. It contains two dropdown menus: 'Country' set to 'United States' and 'Operator' set to 'Cingular/AT&T'. A 'Custom' button is visible to the right of the 'Operator' dropdown. Other sections include 'Send Mode' (Instant, Custom, Daily Report), 'Send Via' (MMS, GPRS), 'Send To' (Phone, Email, Both), and 'Camera Name' (CAMERA_01).

For instance, if the user uses an USA AT&T SIM card, choose "USA" in the "Country" drop down dialog, then choose "AT&T" in the "Operator" drop down dialog.

If user cannot find the country or operator information in the preset software, the user needs to do custom settings and contact local operators to fill in the operator information. Choose "Other" in the "Country" drop down dialog; choose "Other" in the "Operator" drop down dialog, then click the "Custom" button to access a pop-up dialog box.

The screenshot shows the 'UWAY GSM SETUP' window with the 'Operator Parameter' section. Both the 'Country' and 'Operator' dropdown menus are set to 'Other'. The 'Custom' button next to the 'Operator' dropdown is highlighted with a red box. Other sections are the same as in the previous screenshot.

Complete the following information (please confirm the accurate information with your local operator), and click OK to save the settings. Take Germany T-Mobile for example as shown below.



The image shows a dialog box titled "Operator Param" with a close button in the top right corner. It is divided into two sections: "MMS" and "GPRS".

MMS Section:

- URL:
- GateWay:
- APN: Port:
- Account:
- Password:

GPRS Section:

- APN:
- Account:
- Password:

At the bottom of the dialog box are two buttons: "OK" and "Cancel".

E. Recipients:

Recipients are where the pictures are transmitted to: phone number or email address. The recipients allow 4 phone numbers and 4 email addresses, use semicolon ";" between each phone number and email address.

Recipients		Remote Control	
Phone	7705820004; 4046630773	<input checked="" type="checkbox"/> Enable	Receive Time
Maximum 4 numbers, use ',' to separate numbers.		11	30
Email	support@uwatechnology.com; testing@163.com		
Maximum 4 emails, use ',' to separate emails.			

F. Remote Control:

This feature allows the user to send a text message command to change the Send Mode. Once this function is enabled, user needs to input a Receive Time as shown below.

Recipients		Remote Control	
Phone	7705820004; 4046630773	<input checked="" type="checkbox"/> Enable	Receive Time
Maximum 4 numbers, use ',' to separate numbers.		11	30
Email	support@uwatechnology.com; testing@163.com		
Maximum 4 emails, use ',' to separate emails.			

The camera GSM module will boot up automatically every day at the 'Receive Time' to check if there is any text message commands. After processing the text message command, the camera will send a confirmation text message to the sender phone number. If multiple commands are received, the camera will only process the last text message command.

Note: Avoid sending multiple text message commands to camera in one day.

The camera will accept text message commands in the following protocols shown in the table:

Send Mode	Text Message Command Protocol	Example
Off	C#00#E	C#00#E
Instant	C#01#NNN#E	C#01#008#E
Customized	C#02#HHMM#NN#E	C#02#0930#05#E
Daily Report	C#03#HHMM#E	C#03#1230#E

HH means hour, MM means minute, NN or NNN mean Max Number. Taking "C#02#0930#05#E" for example, this command will change the Send Mode to "Custom" with receiving time at 9:30 and Max Num. 5.

Note 1: The command protocol must be followed accurately; otherwise, the camera will not accept the command.

Note 2: Once the Send Mode is changed to OFF, the GSM module will be turned off and will not receive any further text message commands; you will need to retrieve the camera to turn cellular mode back ON.

G. Camera Name:

User can input a camera name; the camera name will be shown on the top-right corner of each picture taken.

Note: only "A-Z, 0-9, /, _, -, #" are allowed, DO NOT use Space between words. For example, "Camera 01" is not eligible, "Camera_01" is eligible.

H. GPS Input:

User can input a GPS coordinate read from a third-party device such as a cellphone or a GPS device. Once a GPS coordinate is input, the GPS information will be written in the exif data of each picture taken. User can organize pictures using a third-party software to track the picture locations.

The screenshot shows a dialog box titled "GPS Input". It features a checked "Enable" checkbox. The "Longitude" section includes a dropdown menu set to "E", a label "(E/W)", and three input boxes containing "123", "28", and "4". The "Latitude" section includes a dropdown menu set to "N", a label "(N/S)", and three input boxes containing "25", "44", and "6". Below the coordinate fields is a "Path:" label followed by a text box containing "C:\" and a browse button "...". At the bottom of the dialog are "Save" and "Cancel" buttons.

I. PATH

Save the edited "GSM_SETUP.exe" after completing all information above. Click the "Save" button and a file named "GSM.bin" will be generated in the designated location. Copy the "GSM.bin" file onto the ROOT directory of a SD card (not in DCIM) and insert the SD card into the camera.

NOTE: Switch the camera to "SETUP" and after a few seconds, the camera will display "GSM update success".

Testing the GSM network using "manually send mode":

1. Switch camera to "SET UP"

2. After the camera boots up into Live Preview, it will search for the GSM network if a SIM card is inserted and the GSM module is NOT turned Off in "Send Mode". The user will see "Searching network....." on the screen. Once the camera is connected to the network, the ISP name will show on the bottom right corner of the screen. If the connection fails, it will show "Login fail". Press the "Right" key to search for network again.

Note: continuously Login fail generally means the network signal is poor or the SIM card is not compatible (**DO NOT use CDMA or 3G SIM card plan for this GSM camera**)

3. While in Live Preview, press 'Down' arrow to switch to Playback mode, choose a picture using the "Right" or "Left" arrows and press OK. The camera will send the selected picture to the preset phone number(s) and email addresse(s). After sending successfully, the LCD screen will show 'Send over'. If reception is poor or network is busy, it will show 'Send Fail'.

Sending a picture takes 20s-60s depending on the network signal strength. GPRS generally takes longer time than MMS.

Using camera only to setup GSM network

1. Select GSM SETUP from Main Menu
2. Set SEND MODE: Off, Instant, Customized, or Daily Report
3. Set SEND VIA: MMS or GPRS
4. Set SEND TO: Phone, Email, or Both
5. Set NETWORK SETUP:

NOTE: Push the OK button to select each letter/number. The disk icon is for saving settings; the large left arrow button is for deleting, and the small right arrow is to return to previous menu.

- a. Phone: enter phone number using arrows



- b. Email: enter email address using arrows



- c. Cellular Provider: select your provider from the menu. If your provider is not present, you will need to use the 'Download Tool' explained previously.

6. Set REMOTE CONTROL: Enable (set receiving time) or Disable

NOTE: Explanations of the above settings are explained in greater detail previously in manual (pg. 9 – 18).

Additional Notes:

- Be sure your SIM card works on the GSM GPRS service. This device supports four bands: 850MHz, 900MHz, 1800MHz and 1900MHz.
- If sending photos by MMS, you will want an MMS picture messaging plan. If sending photos by GPRS account, you will want a Data plan on the SIM card.
- There is a max limit on the number of pictures sent daily to your phone. Please check the MAX number in "Instant" and "Custom" modes to set the desired number of pictures.
- The signal strength of the mobile network may vary with location and time of day, which may lead to failures in sending pictures. Rain, rainstorms or bad weather may cause poor signal reception. Be sure to set up camera at a location with strong GSM network coverage.

III. GPS INPUT

User can input a GPS coordinate read from a third-party device such as a cellphone or a GPS device. Once a GPS coordinate is input, the GPS information will be written in the exif data of each picture taken. User can organize pictures using a third-party software to track the picture locations.

1. Select GPS Input from Main Menu
2. Select YES (input proper coordinates) or NO

IV. CAMERA INFORMATION

Select CAMERA INFORMATION from main menu

FILES COUNT

Displays PICTURE and VIDEO number

STORAGE

Displays SD memory card USED SPACE and FREE SPACE

FIRMWARE VERSION

Displays the current camera firmware version

CAMERA NAME

Allows you to display a name on the photo. From left to right the icons are as follows: numbers, letters and symbols, save, backspace, back to menu arrow.

1. Select ENABLE to set up name
2. Create your personalized name using arrows
3. Push SAVE icon when finished
4. Push LEFT arrow button to return to menu

ADDITIONAL INFORMATION

TRANSFERRING PICTURES AND VIDEO TO A COMPUTER:

Pictures and video can be removed in one of two ways:

1. SD memory card can be removed (ALWAYS ensure camera is OFF before removing) and transferred to computer or SD card reader.
2. Connect camera to computer using USB cable.
 - i. Turn camera ON (may not be required)
 - ii. Computer will recognize camera and prompt you to open file or save pictures

FIRMWARE UPDATES

This camera is designed to accommodate future firmware updates if required.

1. Copy the firmware update file (eg. Main.elf and SPEC.bin) onto the SD card root directory (do not place in any file)
2. Insert SD card into the camera
3. Push and hold UP arrow while turning camera to SETUP mode
4. The blue LED on camera front will blink until the update is finished.

5. The camera should automatically re-boot. If it does not re-boot within 10 seconds of the blue LED turning off, turn camera OFF and remove batteries to break power connection.
6. Replace batteries and turn camera to SETUP mode
7. Confirm new firmware version by checking 'Camera Information' (see instructions)

TROUBLESHOOTING

1. **I get more pictures saved to the SD card than transmitted to my phone number and/or email address**
 - i. After capturing a photo, the camera will attempt to transmit the photo a few times before aborting and prepare to capture another photo.
 - ii. Poor reception or busy network signals may result in poor connectivity at certain times and places.
 - iii. Increase Quiet Time to 2 – 3 min as the camera may not be able to transmit as faster in certain network areas.
 - iv. Move camera to different location and test connection strength.
2. **I get pictures transmitted periodically / not consistent**
 - i. The cellular network reception strength will change throughout the day; when the network is busy, the range and strength of reception will decrease.
3. **I cannot get the camera to transmit pictures properly**
 - i. Ensure your SIM card is GSM compatible
 - ii. Ensure the SIM card is active and not locked; you may need to confirm with your provider
 - iii. Ensure you have the proper plan on your SIM card: MMS requires an MMS picture messaging plan, while GPRS requires data (may be slight variations with your provider).
 - iv. Make sure you follow carefully the Download Tool instructions or menu on the camera in setting up the network.
4. **The camera shows full or partial reception bars and I get login failure or no pictures transmitted**
 - i. Although the camera may show full or partial cellular power, the network may be busy at the time of transmission and login; keep trying or move to another location.

- ii. In some instances the camera may show good reception but the cellular bandwidth is too small to transmit pictures at that time; trying at a later time or moving to a different location may help.
- 5. The camera does not turn ON**
- i. Ensure batteries are inserted properly with correct polarity and fully charged. If possible test each battery with battery tester. Approximately 1.7V for Lithium and 1.3V for NiMH is full power.
 - ii. Ensure SD card is properly inserted and not in locked position
 - iii. Reset camera by removing batteries and SD card for 10 minutes
 - iv. Cold temperature may decrease battery output sufficiently to prevent camera from turning ON; check batteries and ensure they are rated for cold temperature
- 6. Beeping Noise when camera turns ON**
- i. Insert SD card
 - ii. Ensure SD card is not locked
 - iii. Format SD card in camera
 - iv. SD card may not be compatible
- 7. Camera will not take pictures or stops part way even with full batteries**
- i. SD card is not formatted correctly; format SD card in camera
 - ii. Ensure SD card is not locked
 - iii. SD card is faulty or incompatible; try different SD card and/or brand. Faulty or incompatible SD cards may cause system conflict, system crash, and battery drain. Always format SD card in camera and try different SD cards if problem persists.
 - iv. Batteries do not have enough power to activate picture/video sequence
- 8. Batteries run down quickly**
- i. Avoid poor quality alkaline and rechargeable batteries, avoid mixing different brands and ages of batteries as battery life will be adversely affected. Different brands of batteries will perform differently than others; try other battery brands to find what works best for your environment.
 - ii. Reduce number of picture burst and/or reduce video length.
 - iii. Ensure batteries are fully charged; test batteries with tester if possible
 - iv. In cold temperatures, the battery life becomes shorter
 - v. SD card may have jammed causing battery to drain; use different SD card and/or brand
- 9. Pictures count in burst mode does not equal what I programmed**

- i. Camera has sophisticated power meter; when weak or low current is detected, camera will automatically reduce the number of pictures in burst mode.
- ii. Ensure batteries are fully charged
- iii. Cold temperatures may decrease battery output resulting in reduction in picture count. Lithium batteries will help in colder weather.

10. Video time is cut shorter than what I programmed

- i. Camera has sophisticated power meter; when weak or low current is detected, camera will automatically reduce the length of video.
- ii. Ensure batteries are fully charged
- iii. Cold temperatures may decrease battery output resulting in reduction in video length. Lithium batteries will help in colder weather.

11. SD card is not recognized in camera

- i. If the SD card is formatted on a computer or other camera, it may not be recognized by this unit. Use this camera to format the SD card
- ii. Ensure that SD card is not greater than 32 GB in size
- iii. Ensure SD card is not locked
- iv. Try different brand of SD card for compatibility

12. SD card is inserted into another device (i.e. camera) and is not recognized

SD card may be formatted differently than the other device (i.e. camera) can recognize. The camera file system is generally compatible with other digital cameras; however, it is recommended not to use the same SD card in different cameras to avoid possible file system conflicts.

13. Color or brightness is different between pictures at same time of day and during burst mode

- i. Camera has sophisticated light metering calculations to optimize pictures in all settings; light intensity may change between pictures causing differences in color and contrast.
- ii. During burst mode, the first picture is taken quickly for fast trigger speed; increased light metering occurs between first and second picture resulting in different color or brightness.

14. Battery level on display is low despite using new batteries

- i. Ensure battery type is selected correctly in camera menu.
- ii. Rechargeable batteries run on lower voltage than lithium resulting in display variation. Some rechargeable batteries will display low power even though they are fully charged; this does not affect camera performance.
- iii. Cold weather will reduce battery output

15. Low Power problems

When the camera power is low the system will not be stable, you may observe abnormal screen displays or automatic camera reboot. Change your batteries.

16. Camera fails to detect motion.

- i. Ensure batteries test full; replace batteries if necessary
- ii. Ensure SD card is NOT locked and compatible with camera; take test pictures in 'Live Preview' mode.
- iii. Ensure 'Quiet Time' is set correctly
- iv. Ensure camera is mounted correctly. Note: hot weather, humidity, and rain will reduce PIR sensing distance; move camera closer if required.
- v. Typically mounting the camera at a height of 3-4 feet will maximize detection distance, this will depend slightly on the size of game you are trying to observe.
- vi. Camera may be angled up too high or too low thereby allowing subjects to walk under or over the PIR motion detection window; adjust camera position and try again.

17. Images are blurry (stills or motion)

- i. UWAY offers some of the best picture quality. Although we try to cover every scenario, it is important to realize that different environments and conditions will affect the picture quality.
- ii. Blurry still images may result from interference with focal points; for example distance from camera, trees, brush, may affect focus point.
- iii. Fog, condensation, water drops, snow, dust, direct sunlight, etc can all reduce picture quality.
- iv. Motion blur may result when object moves too quickly. Blur will be compounded during night and low light situations. The UWAY camera has been finely tuned to maximize picture quality while balancing other interactions such as battery life, trigger speed, and IR lighting distance.

18. Night images are dark

- i. Ensure batteries are fully charged. Use Lithium or high quality NiMH rechargeable batteries.
- ii. Cold temperature will reduce battery output to IR lights.
- iii. Remove brush, grass, and other debris that may prevent IR light from reaching its potential.

19. Too many empty pictures/video or false triggers

- i. Ensure camera is mounted on a solid surface; trees and surface may move in wind causing camera to trigger falsely.

- ii. Adjust camera height and angle.
- iii. Remove brush and branches from detection zone that may be triggering camera.
- iv. A close running animal/human may make it across detection zone before triggering the camera
- v. Sunlight and heat waves may result in certain scenarios of false triggers; position camera in different location.

SPECIFICATIONS

- GSM Cellular Module
- MMS resolution: 640 x 480
- Lens: FOV = 52
- Photo resolution: 8MP, 5MP, 3MP (programmable)
- Photo burst: 1-3 photos per trigger (programmable)
- Video resolution: HD 1280 x 720 or 640 x 480 VGA
- Video length: 5-60 sec
- Very compact (4 x 5.9 x 2.2 inches)
- Fast trigger time (1 sec)
- 60 No Glow Black Flash infrared LEDs
- Multi-zone PIR detection range: up to 50 feet
- Color daytime and black & white nighttime pictures
- Date, Time, Temperature & Moon Phase image stamp
- Low power consumption, standby battery lifetime up to 12 months
- External memory : SD/SDHC card up to 32 GB
- Video sound recording
- 6V / 9V-volt port & USB port
- 12 x 1.5 volt AA batteries (not included)
- Low battery indicator
- Mount with mounting strap, security box, & cable lock
- 4-digit password protection
- Playback pictures and videos
- 2.0" true color TFT display
- User-friendly interface, 6 buttons control
- Time Lapse
- Duty Time

WARRANTY INFORMATION

This UWAY camera is warranted to be free from defects in material and workmanship for 1 year from the original date of purchase when purchased through an authorized dealer. UWAY will, at its option, repair or replace your camera with the same or comparable model, free of charge (shipping charges may apply) for a period of (1) one year from the original date of purchase in the event of a defect in materials or workmanship occurring with normal use. This warranty only extends to the original retail purchaser. Purchase receipt or other proof of date of original purchase is required before warranty performance. The warranty on any replacement product provided under this warranty shall be for the unexpired portion of the warranty period applicable to the original product.

This warranty extends solely to failures due to defects in materials or workmanship occurring during normal use. It does not cover normal wear of the product. This warranty is void if: the product housing has been removed, if the product's label, logo or serial number have been removed, or if the product fails to function properly as a result of accident, misuse, abuse, neglect, mishandling, misapplication, non-compatible batteries, faulty installation, setup, adjustments, improper maintenance, alteration, maladjustment of controls, modification, power surges, service by anyone other than UWAY or UWAY authorized service center or acts beyond the manufacturer's control. Should your product prove defective during this warranty period, please contact us to obtain a RMA number prior to returning the defective unit.

*RMA number is required for all returns.

If the product is beyond the warranty period, the price for repairing or replacing may vary. International customers pay different amount of shipping & insurance. We will send detailed shipping information along with the RMA number. Include with your camera the RMA form and a copy of your dated cash register receipt or other proof of purchase.

*Please contact us if you have any questions or problem while using the camera before you request a RMA number and send the camera back for repair.

Some problems may be solved easily with help from customer service.

CAMERA REPAIR

Repairs for damages not covered by the warranty will be subject to a charge. Please contact UWAY to discuss repair options not covered under warranty.

CUSTOMER SERVICE CONTACT:

U.S.A & International

Email: sales@hcooutdoors.com

Website: www.uwayoutdoors.com

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