

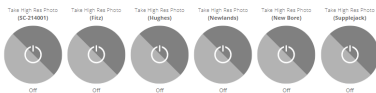


HydroTerra

Environmental Monitoring Specialists

4G Solar Camera





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1.0 Quick Start Guide

Congratulations! You are now the proud owner of a 4G Solar Camera from HydroTerra Australia. We want to ensure you capture the exact images and videos you need, and enjoy using your camera.

To help you do this, we offer the best support we can. If you are having any difficulties with your camera, or find yourself struggling with the manual, please call us from 9am-5pm Monday to Friday. We are here to help! Our website also features some great set-up videos that are very easy to follow.

The first few pages of this manual give you a **Quick Start Guide** as an introduction to the camera. However, for more detailed and important camera instructions, please see Part 3.

1.1 What's in the Box?

- Camera
- Mounting strap
- USB cable (for downloading images to computer)
- Instruction manual
- 2 Antennas (aerials)

1.2 Let's Get Started

Your camera will be good to go in just three simple steps:

a. Insert the batteries

Open the camera housing (with the latch on the right hand side) and insert the batteries in accordance with the + and - marked in the battery case.

Note: 12AA alkaline, rechargeable Ni-MH, or lithium batteries are recommended. For better performance, please select the correct battery type you are using in the "Battery Type" section (you can do this later)

b. Insert the SD card

Note: SD cards sized from 8-32GB are recommended. Do not use cards that are larger or smaller than this (they may work for a small number of images but then stop and deplete the camera of battery life quite quickly). Please insert the SD card in the same direction/position as marked on the camera above the SD card slot. It will go in smoothly and easily and click into position. If it is not going in easily, do not force it as the SD card slot can be permanently damaged if the card is forced inside. Try turning the card around.



Standard Sim



Micro Sim



Nano Sim

SIM is the correct sized SIM card.

c. Mount the Antenna & Insert SIM card

When you attach the antennas, screw them in firmly but be careful not to over-tighten. The SIM card must be the standard SIM size. These are the largest of the 3 SIM card sizes. Be careful not to insert sim cards that are too small (they can fall into the SIM slot and then be irretrievable). Insert the SIM into the slot in the same direction as directed in the image on the camera above the slot. It will click into place. Ensure you have activated your SIM card and that it has credit on it.

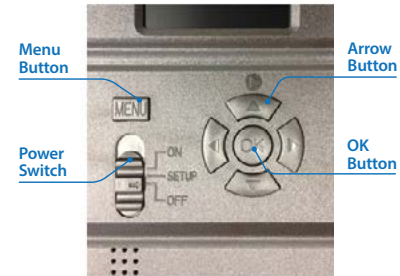
1.3 How to Setup the Camera

Now it's time to configure your 4G camera for your unique situation.

1. Configure Camera Settings

Switch the Power switch to **SETUP**. The screen will light up with the logo briefly and then you will be able to see what the camera can see. Press the **MENU** button. You will enter the menu to view & change settings. Press the arrow buttons (located around the OK button) for navigation and **OK** button to confirm settings.

Note: Switch the camera to **ON** to enable the camera to activate after you have changed your preferred settings. The screen will turn off and the light on the front of the camera will flash for a few seconds. The camera is now active (even though it may seem like nothing is happening).



Note: Switch the camera to ON to enable the camera to activate after you have changed your preferred settings. The screen will turn off and the light on the front of the camera will flash for a few seconds. The camera is now active (even though it may seem like nothing is happening)

2. Entering your 4G Settings

If it comes up with a signal bar and no other pop-ups, it means the network is auto-matched and no manual setup is needed. Go to the 4G Menu tab and complete the "Send To" section by entering phones/emails or FTP that you want the camera to send images to. You will be able to receive photos upon motion triggers.

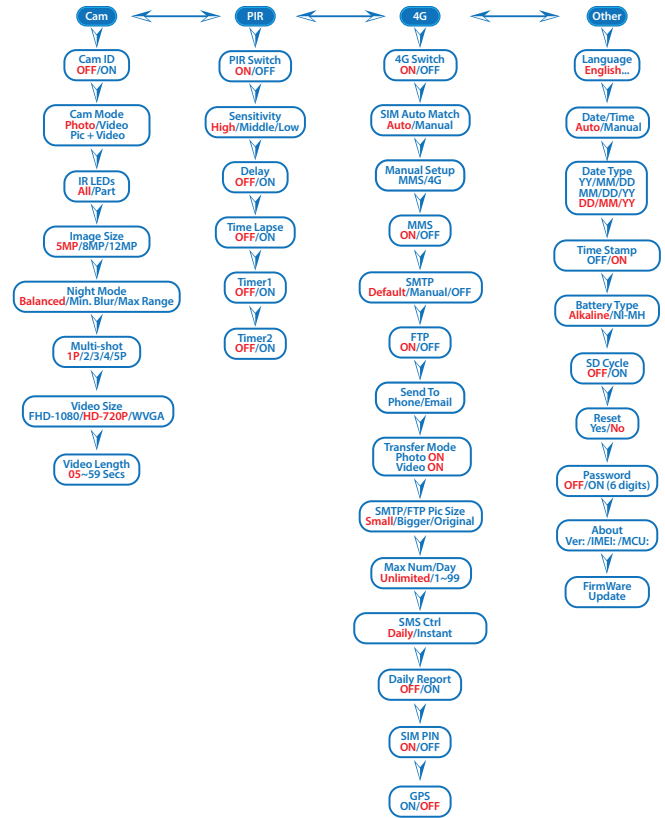
If it comes with a pop-up "SIM Auto Match failed... ", please go to "SIM Auto Match" under "4G", select "Manual", and fill in local operator APN details in "Manual Setup", the camera will connect to their network to send photos.

3. Power on the Camera

Once you have entered all your settings, switch the Power switch to ON. The camera is now functional and ready to work upon motion triggers (the screen inside will not light up when switched to "ON"). You will not hear or see it activating and taking images. You can mount it to start taking images now.



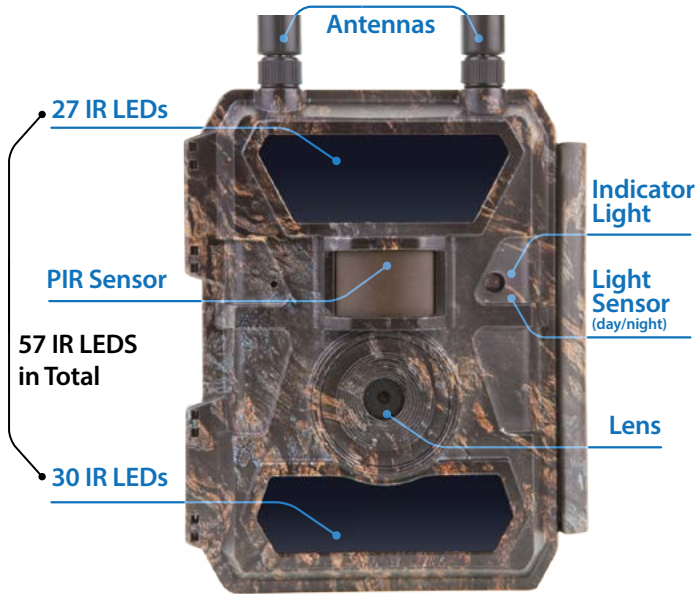
1.4 Camera Layout (Default Settings in Red Letters)



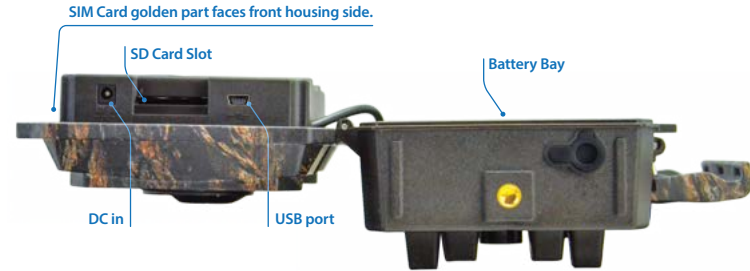
2.0 4G Layout

Take a few moments to familiarise yourself with the camera controls and displays.

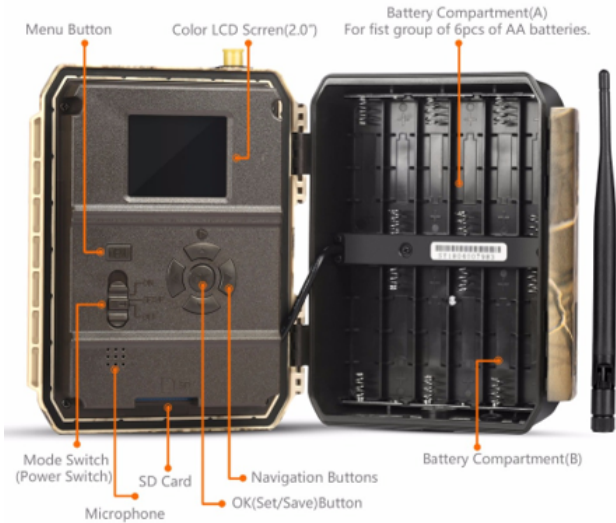
2.1 Figure 1: Front View



2.2 Figure 2: Bottom View



2.3 Figure 3: Internal, Side and Back View



3.0 Full 4G Set Up Guide

3.1 Introduction

Thank you for purchasing our 4G Camera. Now it's time to capture those images or videos you need from your camera. Just remember, if you are having any difficulties with your camera, or find yourself struggling with the manual, please call us from 9am-5pm Monday to Friday. We are here to help! Our website also features some great set-up videos that are very easy to follow.

The Quick Start Guide at the beginning of this manual is designed to introduce how the camera works. The following section will give you more details about the camera's operation.

3.2 Power Supply

a. Batteries

Always ensure you use a quality brand of battery. These cameras can sit in some very high temperatures and the batteries can get quite hot. Poor quality batteries cannot handle the heat as well and are much more likely to leak in your camera. In addition, good quality batteries give a much brighter image or video at night.

There is a big difference between brands (sometimes up to 100 times the number of images). We recommend the following brands:

Alkaline batteries – Fujitsu Premium, Duracell or Energizer

NiMH rechargeable – Fujitsu or Eneloop

Lithium - Energizer

The camera runs on 6 or 12 AA size batteries (9-12V power supply). It can work with high quality alkaline, high-quality NiMH rechargeable batteries, and lithium batteries. For the best night images, we suggest using NiMH rechargeable or lithium batteries. Please also choose the correct battery type you're using in the menu option "**Battery Type**".

Batteries should be inserted with correct electrode position as marked on the housing. Upside down batteries may cause the device to malfunction or batteries to leak. Also, we strongly recommend changing the batteries when the power icon on the camera screen or photo stamp is empty. Batteries with no charge in them are more likely to leak.

Note: Please don't mix battery types (eg alkaline and NiMH)! Different battery types used in the camera may cause permanent damage which also voids the warranty.

The table below shows the approximate number of photos or videos the camera can take with 12AA alkaline batteries. Even better performance can be achieved with rechargeable NiMH batteries or lithium batteries.

Test Condition: LCD screen off. Mode: "Power On" PIR motion detection on; 4G Off

12AA Alkaline Batteries							
Photos shot per day		Working time		Video clips shot per day		Working time	
IR LEDs On							
Max. Range	100 pics	81 days	10secs video clips	10 clips	75 days		
Balanced	100 pics	76 days					
Min. Blur	100 pics	70 days					
IR LEDs Off							
Photo	100 pics	115 days	10secs video clips	10 clips	168 days		

b. Solar Panel

This camera can be used with the Solar Panel. The solar panel does not charge the batteries in the camera but has its own built in battery that the panel keeps charged. Batteries can still be used in the camera at the same time, but they will only be used by the camera if the solar panel power ceases (they are a backup). Most people use no batteries in the camera when using the solar power option as they are not required. Because the Solar Panel has a built in battery it still has power for night images and video.

c. Power Adaptor

This camera can also be powered by an external 240 V to 12V / 2A DC adapter. These are available from HydroTerra. If you are sourcing your own power adapter, then please ensure that it is to the correct specifications or you can permanently damage your camera. Do not use the 240 V power adapter that comes with the Solar Panel in the camera. It is only to be used with the Solar Panel.

3.3 SD Card Selection

SD cards sized from 8-32GB are recommended. Do not use cards that are larger or smaller than this (they may work for a small number of images but then stop and deplete the camera of battery life quite quickly). Please insert the SD card in the same direction/position as marked on the camera above the SD card slot. It will go in smoothly and easily and click into position. If it is not going in easily then do not force it as it may be the wrong way around (the SD card slot can be permanently damaged if it is forced in).

A memory card is required to operate the camera. When the camera is "ON" and no memory card is inserted, the screen displays "No card". Before inserting or removing the memory card, the camera must be turned "OFF". Failing to do so may cause loss of or damage the pictures/ videos already recorded on the memory card. When the SD card is full, the viewing screen shows "Memory Full".

The chart (top right) will show you the approximate capacity of different size SD cards. Please check to see which size card can best fit your needs.

Size Capacity	SD		8 GB	16 GB	32 GB
	Photo (pictures)				
5MP			6935	13210	27920
8 MP			4205	8070	17061
12 MP			2701	5190	10965
Video (hours)					
WVGA			08:20:44	16:05:45	33:56:02
HD			05:52:35	11:38:43	24:09:16
FHD			04:27:27	08:30:21	18:04:52

3.4 USB Connection

The camera can be connected to your computer via the USB connection – only use the cable supplied with the camera. Leave the camera on **OFF** and connect it. The camera screen then displays "**MSDC**". You can then download the images off your camera to your computer. You can also delete images from your camera. An easy way to delete the images, is to simply remove the SD card from your camera and put it in your computer.

If you press "**Menu**" once, "**MSDC**" turns to "**PC Cam**"; the camera now can be used as a PC camera; press "**Menu**" again, and the camera exits PC camera mode.

3.5 Important Notes

1. Insert the SD card correctly – do not force it in. The camera must be OFF when SD card is inserted.
2. Please use high-quality AA batteries to prevent battery cells from suffering leaked acid corrosion. You will also get better night images. Be careful to not put the batteries in upside down.
3. If using a 240V adapter ensure it has the correct output voltage and current (9-12V 2A).
4. In Test mode, the camera will automatically power off in 3 mins if there is no keypad touching. If it is in the Menu though it won't power off automatically.
5. Do not frequently insert or pull out the SD card, batteries or plug when the camera is on.
6. Do not have any floating objects, such as leaves, and grass in the motion detection zone of cameras, as during the heat of the day it can cause the cameras to take unnecessary images.
7. Do not keep the camera next to hot objects, air conditioner exhaust vents, hot water systems, and lights, etc. to avoid the camera taking unnecessary images.
8. The Date/Time settings can be saved in camera for 12 hours with no batteries in the camera if the camera has been powered for at least 1 hour previous.

3.6 4G Key Features

1. **0.35 seconds** trigger speed;
2. 12MP/ 1080P@30FPS;
3. Programmable 5/8/12 Megapixel high-quality resolution;
4. **57pcs invisible IR LEDs** (black flash), offer 20 metres (65 feet) real night vision distance;
5. Clear day & night photo/video quality;
6. **1 photo burst per second** to get full moving track of object;
7. Support multiple functions: adjustable PIR sensitivity (motion sensor), Multi-shot (1~5 photos per trigger), programmable delay between motions, Time Lapse, Timer Stamp of (camera ID, date/time, temperature, moon phase) on every single photo;
8. Available operation temperature: -25°C to 60°C;
9. Built-in 2.0" TFT colour screen;
10. Camera can transmit photos to 1-4 preset mobile phones, 1-4 email, and an FTP account per trigger via 3G or 4G;
11. Optional image size (small, medium or full size);
12. Burst transmission possible (multiple images from a burst can be transmitted);
13. SMS communication with camera remotely;
14. APP available in IOS & Android APP store (see back of this manual)

4.0 Camera Operations

4.1 Video/Photo Playback

Turn "**Power Switch**" to "**SETUP**" position to enter test mode, press arrow button "**↑**" to enter Playback; press "**←**" and "**→**" for selection, "**OK**" to play photo/video.

1. Press button "**↑**" again to exit.
2. In Playback Mode, press "**Menu**" button to delete files, or format SD card; press "**Menu**" again to exit.

4.2 Delete

In Playback Mode (see 4.1 above), press the "**Menu**" button to delete files, or format SD card. Press "**OK**" to choose Delete, then press "**↑**" and "**↓**" for selection of "**ONE**" (deletes one image) or "**ALL**" (deletes all images), then "**Yes**" to confirm, or "**No**" to exit to previous page.

4.3 Format of SD Card

In Playback Mode (see 4.1 above), press the "**Menu**" button then "**↓**" for selection of "**Format**", and then select "**Yes**" to format. Press "**←**" and "**→**" for selection, "**Yes**" to confirm, "**No**" to exit to previous page.

4.4 Auto Power Off

In Test mode, the camera will automatically power off in 3 minutes if there is no keypad touching (unless it is in the Menu screen). This will flatten the batteries if it is accidentally left on in this mode. Please manually turn it "**OFF**" and "**ON**" if you want to do further changing of the settings.

4.5 Operation Menu

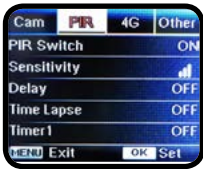
Turn the Power switch to "**Set Up**" and you are then in Test mode (you can see what the camera is seeing). Press the "**Menu**" button once to enter the camera settings menu. To navigate through the settings press "**←**", "**↑**", "**→**", or "**↓**", and press "**OK**" for selection, "**Menu**" to exit to previous page, and "**Menu**" to switch alpha/ digits/ symbols.

Note: For some settings, the user needs to press "Menu" to save & exit the configuration after pressing "OK" to confirm (Cam ID, Delay, Time Lapse, Timer, Password).



The "Cam" Tab

Settings	Programmable Options
Cam ID	Select "ON", press "OK", to set 4 digits/ letters for each camera. This function can help the user to identify what photos are from what camera.
Cam Mode	Photo, PIC+VIDEO, Video 1. Photo: camera shoots photos only based upon the selected Multi-shot & Image Size; 2. PIC+VIDEO: camera shoots photo(s) first, then video upon the same trigger event based on the Video Length/Size and Multi-shot/ Image Size selected. 3. Video: camera shoots videos only based on selected Video Length/Size
IR LEDs	All/Part All: all 57pcs IR LEDs will work at night; (this is good when you want the night images/video to be as bright as possible) Part: Bottom 30pcs IR LEDs will be turned off (this function might be used when you are capturing close up footage - within 2 metres.
Image Size	5MP (2560*1920), 8MP (3264*2448), 12MP (4032*3024) We recommend using it in 5MP mode.
Night Mode	1. Min. Blur: Short exposure time (1/30 sec) to minimise motion blur for better image quality; shortened IR flash range. This is our preferred Night mode although it does use slightly more power. 2. Max. Range: Longer exposure time (1/8 sec) to extend IR flash range for better night vision; lower image quality. 3. Balanced: combination of above 2 options;
Multi-shot	Programmable 1~5 photos per trigger
Video On	
Video Size	FHL-1080P (1920*1080), HD-720P (1280*720), WVGA (848*480)
Video length	5~59 Secs



PIR

Settings	Programmable Options
PIR Switch	OFF/ON The PIR switch is the cameras motion sensor. With the PIR Switch OFF the camera will not be able to take photos or video upon motion. With the PIR Switch ON, the camera is able to take photos and videos when the camera detects movement.
Sensitivity	High, Middle, Low Higher sensitivity is: 1) more sensitive to movements by smaller subjects; 2) longer detection distance; 3) easier for sensor to detect difference between body heat and outdoor temperature; 4) easier to trigger camera to record. In high temperature environments, the body heat of subjects and the environments temperature is hard for the camera to distinguish between. In this situation we suggest setting it to High . Also, be aware that in areas of heavy vegetation the heat can make the vegetation set the camera off if it is moving around within the camera's field of view. This is more likely to occur in the heat of the day between 10:00 am and 2:00 pm. Also ensure your camera is mounted to something sturdy that cannot move around slightly as this can cause the camera to take images with no subject. If you cannot avoid problems with vegetation movement or alike then you may need to reduce the sensitivity by putting it onto Middle or Low.
Delay	This option is used to prevent the camera taking too many photos or videos in some situations eg stock on a water trough. It is rarely used in a security situation though. It adds on a selected time period after the last image for the camera to go to sleep and not wake up to take an image on movement. Select "ON", press "OK", to set a time interval that you desire between photos/videos upon motion. Example: Camera will wait 1 minute between photo/video recordings with motion if pre-set time interval is 00:01:00 Configurable delay time: 00:00:05~23:59:59 Note: Please don't turn ON Time Lapse and Delay simultaneously!
Time Lapse	If you want the camera to take images at set times you can use this Time Lapse Setting. For example, you can set the camera to take an image every 30 min if you set the Time Lapse Interval to 00:30:00. Select "ON", press "OK", to set the interval; camera will shoot pics or video clips automatically upon the interval you enter. Configurable interval: 00:00:05~23:59:59. The PIR sensor of the camera can also continue to function when the camera is in Time Lapse mode. Note: Please don't turn ON Time Lapse and Delay simultaneously!

Timer1	For setting the camera to only operate during the specified time period. Select "ON", press "OK", to set the beginning time and the end time (hour/minute). i.e.: 15:00 – 18:00; camera only works during 15:00 – 18:00
Timer2	The camera has two timers so you can set two separate working periods. For instance you can have a morning operating period set in Timer 1 and an afternoon operating period in Timer2. This is set the same as Timer1. If you only need one Timer then leave this one OFF



The "4G" Tab

Settings Programmable Options

SIM Auto Match

- 1) Camera will automatically enter MMS & 4G settings when the SIM card is inserted;
- 2) If "SIM Automatch failed, please enter setup manually" pops up on screen, please switch "SIM Auto Match" to "Manual" mode, then enter MMS & 4G settings in "Manual Setup";

Manual Setup

(Please enter settings below manually in "Manual" mode if your carrier can't be automatically matched by the camera).

MMS Setup	Please contact your carrier for URL/ APN/ IP/ Port (Username & Password if required); and enter these manually. 1. With MMS settings added, the camera can send photos to preset phones/email. If the MMS settings are incorrect, then phones/ email accounts will not be able to receive photos from camera. 2. Emails can be received from camera via SMTP only when SMTP is ON.
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4G Setup	Enter your local carriers 4G APN, and corresponding Username and Password. Note: Only with 4G settings added, can SMTP and FTP functions work. Note: it's not a must to enter Username and Password of APN. But some carriers may require this password access to enable GPRS function. For details, please contact your local operator.
MMS	ON/OFF - You can choose to allow pics to be sent to your phone number via MMS by switch ON/ OFF MMS function here. Video cannot be sent via MMS. MMS requires the voice function on your sim card (not data).

SMTP Setup

Camera comes with default SMTP settings. You only need to enter the receiving email address in "Send to". If you'd prefer to use your own SMTP server then you can do so by using the following instructions

- 1) Enter your mailbox server IP; i.e.: Hotmail IP: smtp.live.com; Gmail IP: smtp.gmail.com;
- 2) Enter your mailbox port; Port of most mailbox is 25; please enter your mailbox corresponding port.
- 3) Enter your mailbox password access.

Note: SMTP only sends photos to preset emails. If the entered SMTP information is wrong, then you will not be able to receive photos from the camera via email.

FTP Setup

To choose to have the camera send images or video through to an FTP site turn this setting ON and then enter the required details below. See section 6.0 on how to enter text in this section.

- 1) Enter your FTP server IP;
i.e.: FTP Server IP: ftp://dianwan2008.gicp.net/ Enter: dianwan2008.gicp.net Gmail IP: smtp.gmail.com;
- 2) Enter your FTP server port; The port of most FTP servers is 21; please enter your FTP server corresponding port.
- 3) Enter your FTP server password access.

Note: FTP only uploads photos to a preset FTP account; if FTP information is incorrect then FTP account will not be able to receive photos from the camera.

Send To

Phone	Enter recipients' phone numbers (1~4)
Email	Enter recipients' email accounts(1~4). See section 6.0 on how to enter text in this section.

Transfer mode: this function allows the camera to send photos or videos, or both. If you don't want the camera to send images or videos then turn both of these OFF. It will then just record to the SD card

Phone	ON/OFF
Video	ON/OFF

SMTP/FTP Pic Options

This controls the size of the images you receive via SMTP (email) or FTP.

Pic Size: Small/ Bigger/ Original; Small (640*480/30-40kb), or Bigger (1920*1440/300-400kb), or Original (5M/ 8M/ 12M /1MB+) based on the Image Size you set in the CAM menu.

Multishot Send: 1st/2nd/3rd/4th/5th Pic; this function works with Multi-shot function if you have it on in the CAM menu. You can choose the number of images you would like sent through in a multi-shot.
i.e.: Multi-shot is set as 5P; and you choose 1st Pic and 3rd Pic in Multishot Send. Then the 1st photo and 3rd photo taken from the 5 pics multi-shot will be sent out to your email(s) or FTP account.

Note:

1. Only 1st Pic (640*480 or 1920*1440) will be sent if the available network is 3G only;
2. 1st to 5th Pics (640*480 or 1920*1440) can all be sent with 4G network; for original size pics (5/8/12MP), only 2 pics can be sent with 4G network.

Note:

- 1) camera will only send photos to preset phone numbers via MMS;
- 2) camera will only send photos to preset email(s) via MMS if SMTP is OFF;
- 3) camera will only send photos to preset email accounts via SMTP if SMTP is ON.

Max Num/Day

This sets a limit to the maximum number of images you can receive each day.

Default: unlimited;

Optional: 1~99

i.e.: If the user chooses 50, then camera will only send (Photos/Videos) 50 times every day. Each time, camera will send to all entered emails/ phones/ FTP accounts. The remaining photos/videos taken will be stored on the SD card and not sent.

SMS Ctrl

This is to control the options for how the camera will receive MMS messages from you.

1) Daily: (Best for AA battery power)

The camera will only be able to change & save settings sent to it remotely when the camera is set to send the Daily Report (next setting). This is just the one time each day.

2) Instant: (Only use when power adapter is connected as this option will consume 25 times the amount of battery power.)

Camera 4G module is on stand-by all the time, so the camera settings can be changed and saved whenever you send the remote SMS setting commands. Please understand if you use this setting it will flatten the batteries in just a few days.

Daily Report

You can set the camera to send you a report at a set time each day containing the below information.

1) OFF;

2) ON; Choose ON to set up the time when you want the camera to send you the Daily Report;
Contents of the Daily Report: Device IMEI Number, CSQ (Signal Strength): 0~31, Camera ID, Temperature, Date & Time, Battery Life, SD Card Info, Total Pics Taken by Cam, Pics Sent by Cam.

SIM PIN

On most occasions you wont need to do anything here. You can ignore the description below if your SIM has been activated already. ("Pls input PIN-Code" will not pop up after the signal search if your SIM is activated.

Note:

- 1) Camera will check if inserted SIM card is activated during signal search in "Test" mode;
- 2) If SIM is not activated, "Pls input PIN-Code" will pop up on screen after signal search;
- 3) The "SIM PIN" will become editable in the "4G" page of the Menu
- 4) Enter the PIN code in "SIM PIN"; camera will auto power off. Camera will activate SIM card automatically during signal search when you restart the camera after you enter the PIN code.

Note:

- 1) "Pls input PIN-Code" will pop up again if wrong PIN code is entered;
- 2) Please re-try your PIN code if you see "Pls input PIN-Code" after signal search;
- 3) SIM is normally limited to 3 attempts; it'll be locked if PIN code is entered incorrectly 3 times so we suggest you double check your PIN code before you try again.
- 4) As a last resort insert your SIM card into your phone to unlock it by using its PUK code.

GPS

ON/ OFF

With GPS turned ON, GPS info will be shown on image stamp;

Note: If GPS signal is weak, GPS info will not be shown on the image stamp until the GPS signal gets stronger



The "Other" Tab

Settings	Programmable Options
Language	English...
Date/Time	Auto/Manual Auto: camera will synchronize your date/time when switched to Live mode (ON) Manual: manually set your date/time date : Month MM: year YY; hour HH: minute MM: second SS Month : date : year; hour : minute : second Note: Please adjust camera date/time to ensure some functions work as expected.
Stamp	Imprints of programmed camera ID, moon phase, temperature, date, and time on photo
Battery Type	Alkaline/ NI-MH Adjust to your battery type. If you are using Lithium batteries select NiMH.
SD Cycle	When ON the camera will save images over the top of old images when the SD card is full. If set to OFF the camera will stop taking images when the SD card is full.
Password	Select "ON", press "OK" to enable password protection for your camera. The camera supports passwords up to 6 digits/letters long. When you start your camera you will be required to enter this. If you forget this password you will have to send it back to us to have this fixed.
Reset	Select "Yes" to reset camera back to factory default settings.
FW Update	With update firmware in the SD card, you can enter this menu to update camera firmware by confirming "Yes" in the options.
About	Firmware version in camera (Version: / IMEI: / MCU:)

5.0 Specifications

Image Sensor	5 Mega Pixels Colour CMOS
Effective Pixels	2560x1920
Day/Night Mode	Yes
IR range	20m
IR Setting	Top: 27 LEDs, Foot: 30LEDs
Memory	SD Card (4MB – 32 GB)
Operating keys	7
Lens	FOV=52°; Auto IR-Cut-Remove (at night)
LCD Screen	2" TFT, RGB, 262k
PIR distance	20m (65feet)
PIR Angle	Regular lens model: 52°
Picture size	5MP/8MP/12MP = 2560x1920/3264x2448/4032x3024
Picture Format	JPEG
Video resolution	FHD (1920x1080), HD (1280x720), VGA(640x480)
Video Format	MOV
Video Length	05-10 sec. programmable for wireless transmission; 05-59 sec. programmable for no wireless transmission;
Shooting Numbers	1-5
Trigger Time	0.35s
Trigger Interval	4s-7s
Camera + Video	Yes

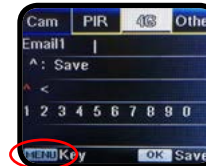
Device Serial No.	Yes
Time Lapse	Yes
SD Card cycle	ON/OFF
Operation Power	Battery: 9V; DC: 12V
Battery Type	12AA
External DC	12V
Stand-by Current	0.135mA
Stand-by Time	5~8 months (6×AA~12×AA)
Auto Power Off	In Test mode, camera will automatically power off in 3 mins if there is no keypad touching.
Interface	USB/SD Card/DC Port
Mounting	Strap; Tripod
Operating Temperature	-25°C to 60°C
Storage temperature	-30°C to 70°C
Operation Humidity	5%-90%
Waterproof spec	IP66
Dimensions	148.25*117.37*78.25 mm
Weight	448g
Certification	RCM CE FCC RoHS

Specifications are subject to change without prior notice.

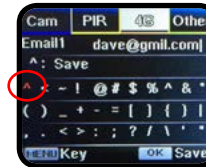
6.0 How to Enter Text

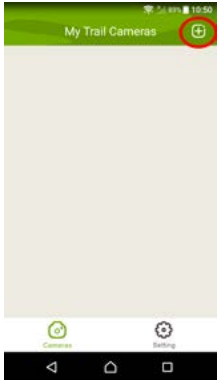
How to Enter Text in the “Send To” Email Section and FTP section.

1. Hitting the menu button changes from numbers to capitals to lower case and then to other characters. Hit the menu button to toggle through to find the correct set of characters you require. Then hit the arrow buttons to scroll through the characters and the OK button to select the desired character.



2. Once you have completed your text then select the upward pointing arrow (when it is red you have selected it). Then hit the OK button to Save and exit the screen.





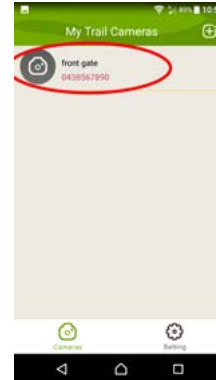
7.0 Trail Camera APP

There is an App called TrailCamera which is available for free on both iPhone and Android. Download the App. Please follow these instructions carefully when using the App as a large percentage of questions and problems with cameras are a result of incorrect use of the App. When you first use the App it should be where you can access the camera in case you need to reset some settings.

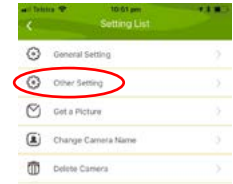
1. Hit the plus sign in the top right to add your camera.



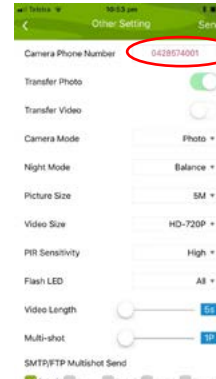
2. Name your camera in the Top box eg *Front Gate*.
3. In the second box put the phone number of the sim card you have put into your camera (phone number of the camera).
4. Select the 4G camera icon on the right hand side, then hit Add.



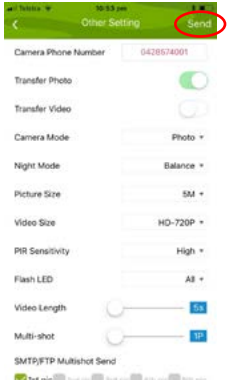
5. Select your camera.



6. Hit the other Setting button

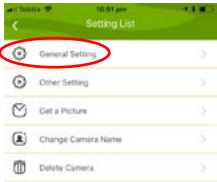


7. This takes you into the camera settings screen where you can enter all the camera settings. Make sure you have the cameras phone number in the top right (Camera Phone Number).
8. Make sure all these setting are how you want them before proceeding to the next step as these setting will replace the settings already in the camera.

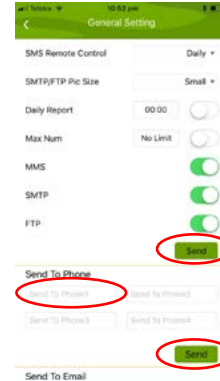


9. Hit the Send button. Depending on whether your phone is Android or iPhone the phone will react differently. iPhones bring up the standard "Messages" App which allows you to then send the message in that App, while Androids bring up send message confirmation screens to which you just hit Confirm.

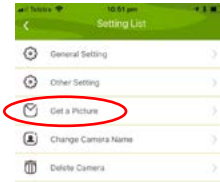
10. When your camera next triggers you should then get a confirmation message back from the camera to say it has received your message – "SMS commands executed successfully!" Note – The camera will not receive your message instantly because it is dormant unless you have it in Instant Mode. See page 20 SMS Ctrl of this manual for more information.



11. Now select the General Settings to enter and complete this section



12. "Complete all the settings to your desired configuration. If sending by MMS or email complete the relevant section Send To Phone or Send to Email (or both). In the "Send To Phone" section enter the phone numbers you want the camera to send the images to. Same for the Send To Email section. Hit "Send" for the top and bottom sections.



13. This allows you to send a message to the camera to get an instant image back. This will only work when the camera is in "Instant" mode. See p20 SMS Ctrl for more information.

8.0 **Trouble Shooting**

8.1 Photos Do Not Capture Subject of Interest

1. 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 to "Low".
2. Try to set your camera up in an area where there is less environmental heat (hot air vents, higher off the ground in summer to get less of the ground's heat) in the camera's field of view.
3. In some cases, setting up the camera near water will make the camera take images with no subject in them. Try to aim the camera over ground.
4. Try to set the camera up on stable and immovable objects, i.e.: large trees. Any movement in the tree can set the camera off. Also vegetation moving around in front of the camera can set the camera off in the heat of the day.
5. At night, the motion detector may detect beyond the range of the IR illumination. Reduce the distance by adjusting the PIR sensor sensitivity.
6. The rising sun or sunset can trigger the camera's PIR sensor. The camera should be reoriented if this is causing a problem.
7. If a person/animal moves quickly, it may move out of the camera's field of view before the photo is taken. Move the camera further back or redirect the camera. Setting up the camera at a 30 degree angle to the movement can also help this.
8. Ensure that the motion sensor is not inadvertently covered.
9. Ensure your camera is targeted well capturing the target moving across the middle of the image frame for best results.

8.2 Camera Stops Taking Images or Won't Take Images

1. Please make sure that the SD card is not full. If the card is full, the camera will stop taking images. You can turn on Cycle Recording to avoid this. Check the SD card does not have files on it from another device as this can sometimes prevent the camera from being able to store images onto the card.
2. Check the batteries to make sure that there is enough power. Poor batteries can sometimes allow the camera to take day time images but not night images. Sometimes it may also take a couple of minutes for the camera to read the battery level correctly. It is always a good idea to try another set of new batteries.
3. Make sure that the camera power switch is in the "On" position and not in the "Off" or "SetUp" position.
4. When the 4G function is on, there will be around a 1 minute interval for the camera to send out a photo before the camera takes the next photo.

5. Try formatting the SD card with the camera. Also ensure the SD card is 8GB to 32GB in size. No smaller or larger. It is also a good idea to sometimes try another SD card.

8.3 Night Vision Flash Range Doesn't Meet Expectations

1. Please check to make sure that the batteries are fully charged or of a high quality brand. Cheap battery brands usually result in poor flash range.
2. "Max Range" offers better IR flash range. Given IR flash range values are based on Max Range setting.
3. High-quality 1.5V NiMH rechargeable AA batteries can also offer much better IR flash range. Alkaline batteries cannot deliver enough amperage to power the illuminator consistently at night.

8.4 Sent Images are not being received

1. Check your sim card has credit.
2. If you are sending MMS messages ensure that the sim card is not a data card as data cards cannot send MMS. Data cards can send email (SMTP).
3. Check that the camera is picking up mobile reception in the main screen. It will bring up the bars in the top left of the screen. This information will still be displayed even if the sim card has no credit. If the camera is not picking up any bars or only 1 or 2 it might be having trouble with reception. Try and test the camera in an area with good reception. Larger aeriels are available if reception with the supplied aerial is not enough.
4. Ensure that the correct phone network has been selected and that the correct number for the recipient's phone has been entered. Numbers are to be entered starting with "04".
5. If you are trying to send to more than one phone number and email then remove all except one and start with that.

9.0 **Warranty**

We are very happy to offer our customers a one year warranty on the 4G camera.

Our products are warranted against defects in materials and workmanship for a period of two years from the date of original purchase. If a defect exists, we will:

1. either repair the product at no charge using new or refurbished parts;
2. or exchange the product with a functionally equivalent product that is new or refurbished.

This warranty excludes damage resulting from abuse, accident, modifications or other causes that are not defects in materials and workmanship, or by someone other than our authorised technicians. This warranty only covers failures due to defects in materials or workmanship under normal usage. The warranty does not cover damage to the camera from battery leaks, or insect damage.

To obtain warranty service, please call us to determine the nature of the problem before returning the product for repair or exchange.