Bushwhacker

3G 📷

WIRELESS
SCOUTING CAMERA

MODEL : BIG EYE G3

Catch the action with your BIG EYE

Contents

1   Quick Start Guide

1. Open the lid. Unlock the lock buckle to open the lid.

2. Insert the SD card Insert the SD card towards right direction

3. Insert the SIM card(metal said face down)

10. Place the camera at the area you want to shoot and install it, then turn camera on and camera starts to work.

			Set
Nighr_ISO	3		
Exposure	3		
Sendinterval	instant		
Net Info	Net configuration		
Network	Search...		
	<∧∨>		3/4

			Set
Nigh	Do you want to		
Expc	Get configuration		
Senc			
Net	Cancel		
Netv	OK		
	<∧∨		✔

9. Search network: Click menu to choose set option then select network, select ok from the Pop-up dialog box and camera will search network.

ON
TEST
OFF

4. Put batteries
Recommend installing
8 batteries

ON
TEST
OFF

5.Turn the switch to "Test"

System	
Format	SD Card
Set Clock	2017/01/01 18:18
Default Set	Factory
Language	English
Beep Sound	On
	<∧∨> 1/2

System	
Form	2017 / 01 / 01
Set C	18 : 19 : 05
Defa	YY/DD/MM
Lang	
Beep	<∧∨
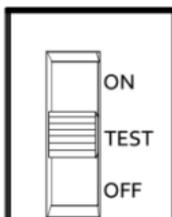
6. Set time for camera
Choose "Set Clock" to set time and date from the "System" interface.

8. Use our configuration software G3set to set parameters for network and email. Or use Android version APP-G3APP to do parameters setting(More details please check the 8-9 chapter)

System	
Format	SD Card
Set Clock	2017/01/01 18:18
Default Set	Factory
Language	English
Beep Sound	On
	<∧∨> 1/2

System	
Form	All data will be deleted
Set C	
Defa	Cancel
Lang	OK
Beep	<∧∨ ✔
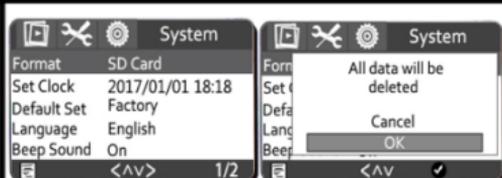
7. Format SD card
Press "Menu"to menu interface, then enter into "System" setting and choose "Format" to format SD card according to the reminder.

2   Introduction

Big Eye G3 wildlife camera (also known as wireless hunting camera / 3G trail cameras) is an wireless infrared detection device with 3Gnetwork. It is triggered by pyroelectric infrared sensor (PIR). Any change of environment temperature caused by movement of animals in observation area automatically triggers completion of photographs or video. The detection photos could be sent by the camera to a mobile phone or mailbox via 3G network and remote setting of camera can be achieved by SMS.。

Applications

A．The product can be used by hunting enthusiasts to detect animal and animal infested areas.

B．Ecological photography enthusiasts, wildlife protection volunteers, etc. Can use it for outdoor automatic image shooting.

C．It can be used for growth observation of wildlife and plants.

D．It is also installed indoor or outdoor, monitoring home, supermarket, construction site, warehouse, community and other places.

E．Forestry units, forest police can use the product to detect stealing and illegal hunting, as well as for evidence obtaining.

F．It can be used in other aspects for evidence collection.

	Notes to users: **Please read the instructions carefully before using this product, so as to avoid unnecessary loss!** **Do not disassemble the camera arbitrarily. Except for product quality problems, the manufacturer does not take any responsibility for damage caused by users!**

3 Camera Structure
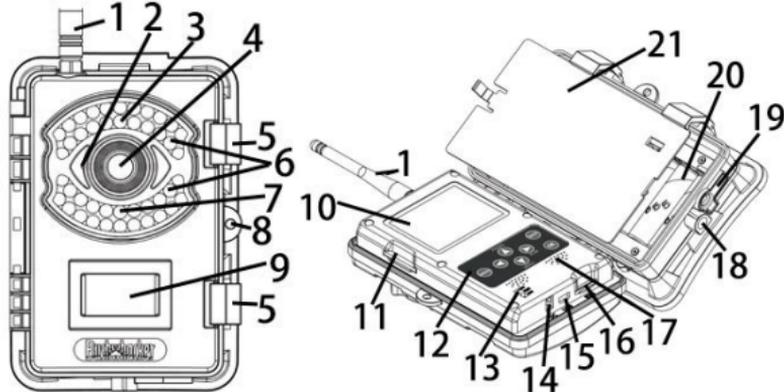
1	Antenna	8	Lock Hole	15	USB/TV Cable Port
2	Microphone	9	PIR sensor	16	SIM card slot
3	Indicator Light	10	TFT screen	17	Speaker
4	Lens	11	SD card slot	18	Tripod Nut
5	Lock Buckle	12	keypad	19	Waterproof Plug
6	IR LED	13	Power/mode switch	20	Battery Slot
7	Resistance	14	DC Port	21	Battery Slot Cover

3.1 Antenna

Uses WCDMA standard 3G network, there are two types of antennas：

European Version： 900/2100MHz @UMTS，

US Version： 850/1900MHz @UMTS。

3.2 Microphone

Used to collect the ambient sound when take video, can be turned off.

3.3 Indicator Light

There are red and blue indicator lights that indicate the working status of the camera.

In "ON" Mode: camera starts successfully if red indicator light

flashes 6 times and then blue indicator light flashes 3 times continually. If start failed, the blue indicator light will keep lighting, user can turn off the camera then restart.

On "TEST" mode, the red indicator light flashes one time at every 10seconds.When PIR trigger, the blue indicator light flashes.

Low battery tips: In "ON" Mode, Red indicator light flashes one time at every 1second for 60 seconds.

Upgrade Tip: Red and blue lights are flashing continuously during the upgrade process.

Search Network: When select Network Search, the display will turn off. The red and blue indicator will light slowly once per second. When network is found, the display will light up and show network status.

Get Parameters: When get the parameters configuration file, click OK to obtain, then the red and blue indicators light slowly once per second, when the search is complete, the display will light up again.

3.4   Lens

90 degree and 50 degree are available. 90 degree lens has an advantage on the near scene; and 50 degree standard lens for shooting ordinary distance scene.

3.5   Lock Hole

Lock the camera with a small lock.

3.6   IR LED

When shooting in night, the infrared light will be turned on to fill light. 850nm and 940nm for selection, please confirm before ordering. 940nm is invisible and the light is weak. 850nm is visible and the light is strong.

3.7   Light Sensor

Used to sensitize the intensity of ambient light, and provide parameters for reference. The photo resistor senses the light intensity of camera position, and if there is a difference in light intensity between the shooting position and the camera's mounting position, adjust the ISO value for exposure to human intervention.

3.8   Lock Buckle

Used to lock and turn on the camera.

3.9   PIR Sensor

This is the PIR sensor window, please don't cover when using. The material is relatively fragile, in order to avoid damage, please do not press firmly.

When install camera please make sure there are not moving objects in 3m area in front of PIR sensor, such as branches, leaves, weeds, strings, color ribbon and other objects which may fluttered in the wind to avoid potential false triggers. Please do not aim the camera at a heat source such as boiler, exhaust vents and light, etc. Avoid mistaking photos or videos.

3.10   TFT screen

Used to display menu settings, view images. Display content included:
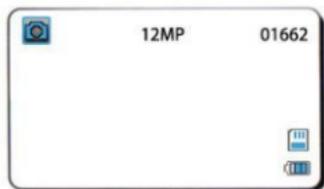
Camera Mode   Video Mode

In camera mode, the display shows as the top left.

The upper left corner of the logo 📷 indicates that camera is in camera mode, "12MP" means current resolution.

The "01662" value in the upper-right corner indicates the capacity of the SD card can save 1662 images with this resolution. Lower right corner 📇 is SD card logo, 🔋 indicates remaining battery charge.

In video mode, the display shows the above right.

The upper left corner of the logo 🎥 indicates that the camera is currently in Video mode, 🎤 indicates sound recording（🎤 indicates sound recording is not available）. 1080FHD represents current resolution of video is 1080P HD. 01:03:59 upper right corner indicates the capacity of the SD card can save the length of video with this resolution. Lower right corner 📇 is SD card logo, 🔋 indicates remaining battery charge,2017/01/12 16:08:05 is the

current date and time.
3.11   SD Card Slot

Please insert SD card correctly. The supported memory capacity is up to 64GB. SD card to be formatted before use; and SD card lock protection off. It's recommended to use high speed SD card not less than class 10 to achieve the best performance. Low-quality SD card and by the TF card into SD card and other non-standard SD card, will take a picture as a failure. Please don't take out batteries, SD card or power supply when camera in "ON" mode!

The file format of SD card stores: Photos are saved in JPEG and videos are saved in MOV (H.264).

Different capacity SD cards can capture the number of pictures and video length as below (the value is for reference only), users can choose according to the actual need.

Note: Users need to purchase SD card by themselves.。

Image amount stored in SD cards with different capacity						
	2GB	4GB	8GB	16GB	32GB	64GB
Photo number (piece)						
3MP	1644	3320	6746	13234	28055	53752
5MP	1026	2072	4212	8262	17514	33557
8MP	647	1307	2656	5210	11054	21162
12MP	424	856	1740	3414	7238	13868
16MP	320	646	1314	2578	5465	10471
Video length(hour)						
1080P	00:16:16	00:32:56	01:07:00	02:11:33	04:38:55	08:14:01
720P	00:34:35	01:09:53	02:22:05	04:38:53	09:51:12	16:05:20
WVGA	00:44:34	01:30:04	03:03:06	05:59:20	12:41:44	19:52:56
VGA	00:52:06	01:45:15	03:33:58	06:59:54	14:50:05	22:32:22
10-second video quantity (segment)						

1080P	97	197	402	789	1673	2964
720P	207	419	852	1673	3547	5792
WVGA	267	540	1098	2156	4570	7157
VGA	313	631	1283	2519	5340	8114

3.12 Keypad

For menu operation
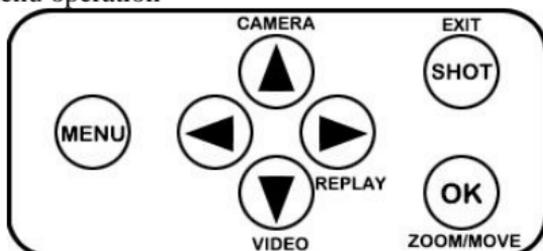
(MENU)	MENU button, press it to set parameters; Switch among "IMAGE/SET/SYSTEM"; Press "EXIT" button to exit.
CAMERA (▲)	Up, Quick switch to camera mode. "ZOOM" mode to enlarge the picture; "MOVE" mode to move the picture up
(◄)	Left, Switch the parameters; on "REPLAY" mode to check the previous image (only available on Replay mode).
(▼) VIDEO	Down, Quick switch to Video mode. "ZOOM" mode to shrink the picture; "MOVE" mode to move the picture down.
(►) REPLAY	Right, Switch the parameters; Replay mode, Check the next one (only available on Replay mode).
EXIT (SHOT)	Shot, Manually take photos or videos (only available on Test mode), EXIT.
(OK) ZOOM/MOVE	Ok, Selected and entered function; in "REPLAY" mode have the function of "ZOOM"/ "MOVE".

3.13   Power/Mode Switch
    OFF: to turn off the camera.
    TEST: to set operational parameters.
    ON: to work under surveillance status.

3.14   DC Port
    External DC power supply, please use 6V / 2A power adapter, the same specifications of the solar power can also be used as an external power supply access.

3.15   USB/TV Cable Port
    The camera configuration has two cables. When the computer connect the USB cable, the camera can be identified as a USB device, the computer can read the camera SD card file; when the TV or external monitor through the TV cable port, the camera's display will be closed, the TV Or an external monitor is used as a display.

3.16   SIM Card Slot
    Camera supports WCDMA 3G standard SIM card, please insert normal function SIM card into the slot.

3.17   Speaker
    When replay video, it can play sound. While operate the keyboard the speaker can send a "beep" sound, and this can be turned off from menu set.

3.18   Tripod Nut
    Standard camera tripod nut.

3.19   Waterproof Plug
    When use an external power supply to charge the camera, just open the waterproof plug and allow the power line to pass through the hole and connect power interface.

3.20   Battery Slot
    Install two groups of 8 AA (LR6 / 5) alkaline batteries or rechargeable batteries according to the positive and negative identification of battery slot .4 AA batteries can also be used, but with shorter lifetime.

Note: Users need to purchase by themselves.

3.21   Battery Slot Cover
    Separate the battery slot from the host to prevent the battery leakage.

4　Menu Function

Press "MENU" key to enter the menu, press ▲, ▼ key to move the cursor to select various function options, "OK" key to confirm. Press "REPLAY" to enter playback mode. Press the "EXIT" key to return to the previous menu or exit the menu.

4.1　Image

4.1.1　Mode

For modes: camera, video, camera + video, monitoring.

"camera + video" mode: first take picture then video.

4.1.2　Image Size

Five options: 12MP is the default size

Photo Size	Resolution	File Size
3MP	1536×2048	395KB
5MP	1944×2592	675KB
8MP	2488×3264	915KB
12MP	3024×4032	1.25MB
16MP	3480×4640	1.55MB

4.1.3　Video Size

Four options for video size, and 1080P is the default.

Video Size	Resolution	Size of 10s Video
VGA	640x480@30fps	6.8MB
WVGA	800x480@30fps	7.9MB
720P	1280x720@30fps	10MB
1080P	1920x1080@30fps	21MB

4.1.4　Shooting No.

When shooting, users can set up for 1-6 consecutive pictures

Note: Camera can only shoot three consecutive when resolution is 16MP.

4.1.5　Video Length

Video length: 5s, 10s, 15s, 20s, 30s, 45s, 1min, 2min, 3min, 5min, 10min.

4.2   Setting (Network Included)

4.2.1   Device No.

Device number defaults to BUSH, composed of 4 characters, each character can be 0-9, AZ in any choice, it will be the first 4 characters of image filename. When browsing pictures, it can help user to identify images are taken by which camera.

4.2.2   Timer:

Set camera to work within specified time period every day. Outside the time period the camera will not be triggered or take photos/videos, it supports 2 groups of timer set.

Default set:

> Off,"00:00——00:00"
> Off,"00:00——00:00"

For instance: Set camera starting time in 8:00 to 10:00am and 15:30 to 18:00pm:

> On,"08:00——10:00"
> On,"15:30——18:00"

4.2.3   PIR Sleep

When camera is shooting in normal sense mode, the PIR will be disabled after each triggering. After this period of time the PIR will wait to be triggered again. Set PIR sleep time as 3s, 5s, 10s, 15s, 30s, 1min, 2min, 5min, 10min, 20min, 30min, 1h. If turned off the PIR will work consecutively.

4.2.4   Time Lapse

Under time lapse mode, PIR will be turned off, camera won't shoot. And only shoot at the specific time. Users can set: 5s,10s,15s,30s,1min,2min,5min,10min,20min,30min,1h,2h,6h,12h,1 8h,24h.

This function can be turned off and camera will shoot when detect movement. This set is useless when camera in monitor mode.

Time lapse time starting point is the point of shooting, so the time lapse will have a logical limit on recording time. As shown in the table below:

Video Length	Shortest Interval Duration	Video Length	Shortest Interval Duration
5s	15s	1 min	2 min
10s	30s	2 min	5 min
15s	30s	3 min	5 min
20s	30s	5 min	10 min
30s	1min	10 min	20 min
45s	1min		

Note: There is a logical association between video length and PIR sleep. Please read the relevant section.

4.2.5 Stamps

On/Off mode, If turned on, the bottom of each photo will show LOGO, temperature, moon phase, photo number.

4.2.6 Power Saving

If turned on, the camera turns on only 20 infrared lights, the PIR level is low (Japanese version only).

4.2.7 Auto Power Off

Automatic shutdown time: 1 minute, 3 minutes, 5 minutes, 10 minutes. At the specific time, if the keyboard without any operation, camera will automatically shut down. User can set according to the need.

4.2.8 Sound Recording

On / Off, when turned on, the video comes with sound.

4.2.9 PIR Level

There are low, normal, high three levels, user can set the intensity of infrared induction, in order to achieve best shooting results.

When set to low, the sensing distance will be shorter, easy to miss; set to high, the sensing distance will increase then leads mistakenly shoot.

12

4.2.10 AE(After Effect)

According to the actual shooting scene, user can do preset to inc rease or decrease the brightness of photo. These are options: +3, +2, +1, standard, -1, -2, -3.

4.2.11 Sending Interval

After taking a picture, if no shooting again within a specific time interval, camera will send picture (mail, MMS mode) or short message (SMS mode).

The following options:

Off/Instant/5s/10s/15s/30s/1min/2min/5min/10min/20min/30min/1h

When set Off the network function will be not available.

Select "Instant" to send immediately, after shooting the 3G network function starts directly then send images. When start the network function, camera will not shoot until the network function is off.

Note: When the voltage is low, camera can not start the network module, that will cause unable sending.

4.2.12 Network Information View

Press "OK" key will display the current network mode, receiving mobile phone number, operator, server mailbox, server port, sending email, sending email password, receiving and CC mailbox and other information

4.2.13 Network Search

Press "OK" button to display the menu then select "OK" option and the screen display will be turned off, camera will search for network signal of current location. When finished the screen turned on again, user can view the network signal strength at the bottom left of the screen.

Network search   Confirm to start network search

Network standard is displayed in the camera as: (transmission speed from low to high)

G   GSM
U   UTRAN
E   GSM W/EGPRS
D   UTRAN W/HSDPA
W   UTRAN W/HSDPA
H   UTRAN W/HSDPA and HSUPA
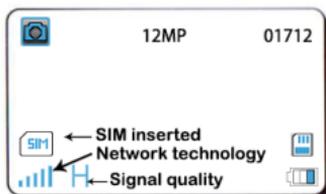
SIM card intact   No SIM card found

Note: Please use this function after setting the network parameters, see related chapters.

4.2.14   Test Routine

Click "OK" to enter "Test routine" item: If no network information is configured, it will prompt "No network configuration information, please configure first"; If yes, it will prompt whether to perform test network function, click OK and the screen will be black out, red and blue light flashes once per second，

If no SIM card or other conditions when network can not be found test will be stopped, the screen will automatically light up and prompts SIM card status or network status

If everything is ok:

SMS: The receiving number will receive a message "The camera is working at SMS mode, it is a test message".

MMS: The receiving number will receive a mms contains a n image.

Email：The receiving mailbox will receive a email which says "The camera is working at EMAIL mode, it is a test email", the attachment is a picture. Meanwhile, the receiving phone number will receive a message with "The camera is working at EMAIL mode,

please check the email, it is a test message".
4.2.15   Get Configuration Parameters
Users can remotely control parameters through the APP. Press the "OK" button, then select the "OK" option the screen will be black out and camera starts to search for the parameter file from APP. The screen opens after parameters have been acquired and modified. Please refer to the specific chapter for more information

4.2.16   IMEI
Communication module IMEI code can be queried on the menu. At the first time for using, it is only displayed after searching network.
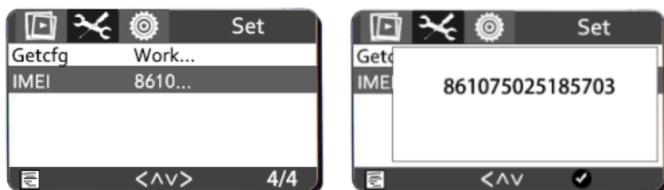
Get IMEI Information

4.3   System
4.3.1   Format SD Card
When inserting the SD card for the first time, format the SD card so that the upgrade program, pictures, videos and other files in the SD card will not affect the normal operation.
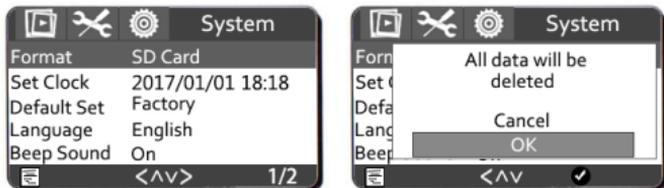
Format SD card

Note: Before performing this operation, please be sure to copy the important files in the SD card to avoid unnecessary losses.

4.3.2   Time & Date
The system default time is January 1, 2017, 00:00 00:00, user need to set time and date according to the local time when first use.

There are super capacitors to maintain the time settings in the camera, but the time will be classified as the default time when long time without batteries.
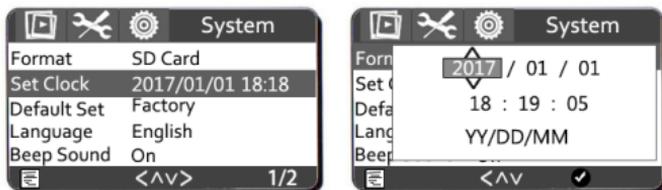
Setting time and date

4.3.3   Default Set:

This operation will restore all system settings in the camera to factory defaults.

Factory Default Parameters		
Photo		
	Mode	Camera
	Image Size	12MP
	Video Size	1080P
	Shooting No.	1
	Video Length	5s
Setting		
	Device No.	BUSH
	Timer	Off
	PIR Interval	3s
	Time Lapse	Off
	Stamps	On
	Power Saving	Off
	Auto Power Off	1 Minute
	Record Audio	On
	PIR Level	Normal
	After Effect	Standard
	Sending Interval	Instant
	Net Info	Net configuration
	Configuration Parameters	Get parameters sent by APP

		via SMS
	Network Search	Search for signals
	Test Routine	Test if the configured network parameters are available
	IMEI	Display the IEMI code for the current network module
System		
	Format	SD card
	Time & Date	2017/01/01 00:00
	Default Set	Factory
	Language	English
	Beep Sound	On
	Loop Recording	On
	TV Mode	PAL
	Password Set	1234
	Software Ver.	G3R__01_6.1.09 S:10 MCU Version:1

4.3.4   Language:

System language, Users can choose different language version to purchase.

4.3.5   Beep Sound:

Turn on / off beep sound.

4.3.6   Loop Recording

If enabled, camera will still shoot when SD card is full, new files will cover the earliest ones. When turned off, camera won't shoot if SD card is full.

4.3.7   TV Mode

PAL and NTSC are two ways for TV connection. When connect with TV, please set on the basis of local conditions.

4.3.8   Password Set

Password is composed of 4 digits which can choose from 0~9, please contact the dealer if forget. The default initial password is 1234.

4.3.9 Software Version

Press OK to get below information:

G3R__01_6.1.09

S:10

MCU Version:1

G3___01_6.1.01 is DSP firmware information: G3 is model number, 01 stands for language (default language: English),6.1 is firmware version，01 is updated version.

S:10 is information of network firmware, version is 10.

MCU Version:1 is information of MCU firmware, version is 1.

4.4 Replay

On "TEST" mode, press "Replay" to review image on TFT screen. Press

"MENU" key to view below functions:

4.4.1 Delete:

Delete current or all images.

4.4.2 Lock Image:

Lock / unlock current, lock / unlock all. If locked, images can't be deleted unless you unlock them. Used to protect important images, avoid unexpected deletion.

4.4.3 Slide Show:

Auto play images in the way of slide show. On "Replay" mode, press "MENU" button and choose "Slide Show", through ◄/► can set interval time "3 seconds", "5 seconds", "8 seconds".

5   Test and View

5.1   Shooting in Test Mode

Turn camera "TEST" mode then the display works, and the upper left corner of the display will show the current shooting mode, resolution, the number of images you can shoot. In "Test" mode user can test to take photo and video. Use the ▲ key to quickly switch to camera mode, use the ▼ key to quickly enter the video mode. Press "shot" to start test shooting.

5.2   Image

After press "REPLAY" button through ◄/► can review photos/videos in SD card. Use ▲, ▼ keys to return to   camera or video mode.

5.2.1   Image Browsing Operation

Press "Zoom" button to zoom in current picture. Press ▲ key to enlarge the photo 1 to 8 times

Press "Zoom" key when get the desired magnification, user can lock the magnification, then use ▲,▼,◄,► keys to move the observation point to observe the details. When need to zoom in / out again, press the "Move" key to unlock and continue scaling. In zoom mode, when zoomed in to the minimum, press the ▼ key again to enter the nine-rectangle-grid browsing mode. Press the "Menu" button to delete and lock the current picture. And user can set the playback time interval when do slide show operation.

"Zoom" and "Move"

Interface shown as at right:
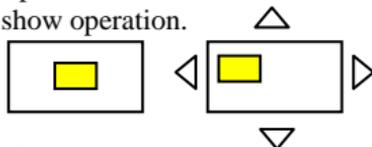
5.2.2   Video Browsing Operation

For video playback, press "OK" to start playback, "EXIT" to exit the playback interface and press▲ 、▼ keys to stop. Press ◄ key to rewind, each press brings × 2 fast reverse speed, press the ► button to fast forward, each press brings × 2 fast forward speed. Press "Menu" key to lock or delete current video.

6   Remote Control Instruction

G3 camera can remotely change parameters through APP or network. The format of the parameters is: For example: # 01 = 1 *

#：Separator of beginning;

01：Parameter instruction code, see the table below for specific code;

=：Separator of Instruction code and specific parameters;

1：Specific Parameters;

*：Separator of ending;

S/N	Parameters	Example
1	Pattern: Photo (1), video (2), photo + video (3)	#01=1*
2	Image Size: 3MP(1),5MP(2),8MP(3),12MP(4),16MP (5)	#02=1*
3	Video size 720P(1),1080P(2), VGA(3), WVGA(4)	#03=1*
4	Shooting No.: 1unit (1), 2 units (2), 3units (3), 4 units (4), 5 units (5), 6 units (6)	#04=1*
5	Video length: 5 seconds (1), 10 seconds (2), 15 seconds (3), 20 seconds (4), 30 seconds (5), 45 seconds (6), 1minute (7), 2 minutes (8), 3 minutes (9), 5 minutes (10), 10 minutes (11)	#05=1*
6	Name of equipment Letters (26 pcs), numbers (10 pcs)	#06=aaaa*
7	Timer 1: Close-->#07: -: *	#07=12:00-12:30*
8	Timer 2: Close-->#08: -: *	#08=01:30-01:40*
9	PIR dormancy: 3 seconds (1), 5 seconds (2), 10 seconds (3), 15 seconds (4), 30 seconds (5), 1 minutes (6), 2 minutes	#09=1*

	(7), 5 minutes (8), 10 minutes (9), 20 minutes (10), 30 minutes (11), 1 hour (12), off (13)	
10	Interval shooting: 3 seconds (1), 5 seconds (2), 10 seconds (3), 15 seconds (4), 30 seconds (5), 1 minute (6), 2 minutes (7), 5 minutes (8), 10minutes (9), 20 minutes (10), 30 minutes (11), 1 hour (12), 2 hours (13), 6 hours (14), 12 hours (15), 18 hours (16), 24 hours (17), turn off (18)	#10=1*
11	Stamp: On (1), Off (2)	#11=1*
12	Power saving mode: On (1), Off (2)	#12=1*
13	Automatic shutting-down: 1 minute (1), 3 minutes(2), 5minutes (3), 10minutes (4)	#13=1*
14	Sound Recording: On (1), Off (2)	#14=1*
15	PIR level: Low (1), normal (2), high (3)	#15=1*
18	Beep sound: On (1), Off (2)	#18=1*
19	Loop recording: On (1), Off (2)	#19=1*
20	TV Output: PAL (1), NTSC (2)	#20=1*
21	Password setting: Letters (26 pcs), numbers (10 pcs)	#21=1234*
22	Network mode: Turn off (0), SMS (1), email (2), MMS (3)	#22=0*
23	Receiving phone number:	#23=12345*
32	Receiving mailbox:	#32=xxx@gx x.com*
33	CC mailbox:	#33=xxxx@x x.com*
35	Image format: 1 (original), 2 (thumbnail)	#35=1*
36	SMS mode: 1 On, 2 Off	#36=1*
38	Transmission interval: Instant (1), 5 seconds (2), 10 seconds (3), 15seconds (4), 30 seconds (5), 1 minutes(6), 2 minutes	#38=1*

	(7), 5 minutes (8), 10 minutes (9), 20 minutes (10), 30 minutes24(11), 1 hour (12), off (13)	
40	Public Account	#40= xxxxx*
41	Public Password	#41= xxxxx*
42	camera set 下使用)PhoneNumber:	#42= xxxx *
43	DAY AE: -3(1),-2(2),-1(3),0(4),1(5),2(6),3(7)	#43=5*
44	DAY AE: -3(1),-2(2),-1(3),0(4),1(5),2(6),3(7)	#44=5*

7   Remote Access to Pictures and Info

Users can get pictures and information from G3 camera through mail, MMS, SMS.

7.1   Email

By mail, users can receive originals or thumbnails taken by the camera. SMS notification function can be turned off at the same time.

7.2   MMS

By MMS, camera will send thumbnails to the specified phone.

7.3   SMS

By SMS, users can receive notice when camera captured image or video.

7.4   SMS Special Features

SMS is also the communication channels between user and camera , users can modify camera parameters by sending messages to camera .

When receiving the command message of changing parameters via remote control, parameters will be changed after the next shooting. After the success of the set, camera will send the changed parameters to the phone.

Camera will send a text message (content includes: time, power, remaining storage capacity) to the specified phone if the camera does not shoot again within 12 hours after normal work in the sensing mode and sends the message successfully.

8   APP Software (Android Version)
8.1   Overview
The G3's APP software allows remote control of the G3 camera, setting or changing camera operating parameters.
8.2   Software Installation
Users can download the APP on Google play and search for "WildCam" for installation.

Also available through our website or dealer, direct access to software: G3APPXXXXXXXX.apk. XXXXXXXX Represents the version number marked by the date, such as 20170828, which is the version of August 28, 2017. After getting the software, copy it into the phone and run the APK to install it.

Main interface and add camera

After installing the software, click on it to enter the main interface, as shown below. Click on the "+" in the upper right corner to add the camera that we need to monitor. In the Add Camera interface, set camera's name, SIM card number, receiving phone number the IMEI. Then click OK to add a camera. For example, camera1.

8.3   Camera Parameter Settings
After setting the camera, click on the camera name, for example, camera1, to set camera parameters s shown below. In this interface user can choose to modify the basic parameters of the camera settings, network settings, camera name and delete the camera.

Camera	+ ‹ Setting List
📷 Camera 1 ›	📷 Camera Setting ›
	📷 Net Setting ›
	📷 Rename ›
	🗑 Delete Camera ›
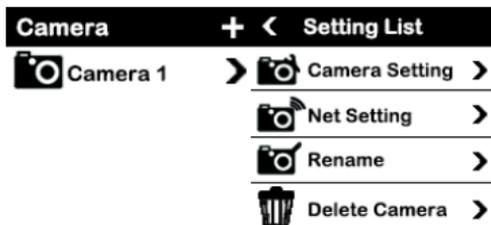
Camera   My

8.4   Basic Parameters Setting

Click Camera Setting to do parameters setting for camera, detailed instruction please refer to relevant section.

‹ Camera Setting	⋮	‹ Camera Setting	⋮	‹ Camera Setting	⋮
Mode	Camera	Timer1	⬤	Auto Power Off	10sm
Image Size	12MP	Timer1 Begin Time		Record Audio	⬤
Videeo Size	720p	Timer1 End Time		PIR Level	Normal
Shooting No	6photo	Timer2	⬤	Loop Recording	⬤
Video Length	5s	Timer2 Begin Time		Beep Sound	⬤
Time Lapse	off	Timer2 End Time		Password set	****
PIR Interval	3s			TV Mode	PAL
Device No	120P	Stamps	⬤	Day Afrer Effects	Standard
Timer1	⬤	Power Saving	⬤	Night After Effects	Standard

8.5   Network Parameters Setting

Select Net Setting for camera's network settings. Network parameters are divided into Email, MMS and SMS three application types.

8.5.1   Email Parameters

Select "Email" and click to enter into input interface, then fill in below information:

NET APN: according to local operators' information. For example:

Email Parameters	China Unicom	AT&T
NET APN	UNINET	Phone
Account APN	Empty	Empty
Password	Empty	Empty

Send Server and Port are the email server and sending port of the sending mailbox. Please consult your local operators. For example: QQ mailbox fill smtp.qq.com, Port 465; GMAIL mailbox smtp.gmail.com, Port 465

Email Parameters	QQ mailbox	Gmail mailbox
Send Server	smtp.qq.com	smtp.gmail.com
Port	465	465

Send Mailbox & Send Password: Fill in sending mailbox and the password.

Receive Mailbox & CC Mailbox: Receiving mailbox and CC mailbox.

Picture Type is resolution of sending photos, Original is the original image taken by the camera, VGA is a thumbnail, using VGA can save traffic.

SMS: when using Email to send pictures, camera can send text messages to the user-specified phone at the same time, notify the user that the specified mailbox received new email, it can be turned off.

Send Interval: Interval of sending pictures to the mailbox. Select Instant to send immediately, after shooting image, start 3G network function directly and the photos will be sent. The timing of the time is counted from the last image taken, photo will be sent when no shooting again within the specified time period.

So before this period of time camera may take multiple photos, each time user open the 3G network, it can send three messages at the same time, each message can contain 10 original photos. Interval sending can reduce the frequency of opening 3G network to achieve the purpose of power saving.

Fill in the APN account and password based on the local operators. For example, China Unicom is blank, no need to fill in; AT & T's APN account is wap@cingulargprs.com, APN password CINGULAR1
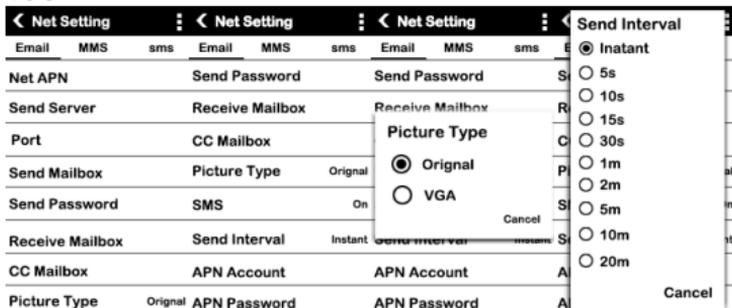
8.5.2 MMS Setting

Select "MMS" for MMS parameter settings, camera will send image to the receiving phone number.More information please check from local operators.

MMS Parameters	TESCO	AT&T
MMS APN	prepay.tesco-mobile.com	phone
MMS Url	http://mmsc.mms.o2.co.uk:8002	http://mmsc.mobile.att.net/
MMS Proxy	193.113.200.195	proxy.mobile.att.net
MMS Port	8080	80
APN Account	Empty	Empty

Send Interval please select Instant.

8.5.3 SMS Parameters

"SMS" parameter settings, camera will remind user that camera captured new image, SMS does not contain image information

Send Interval please select instant.
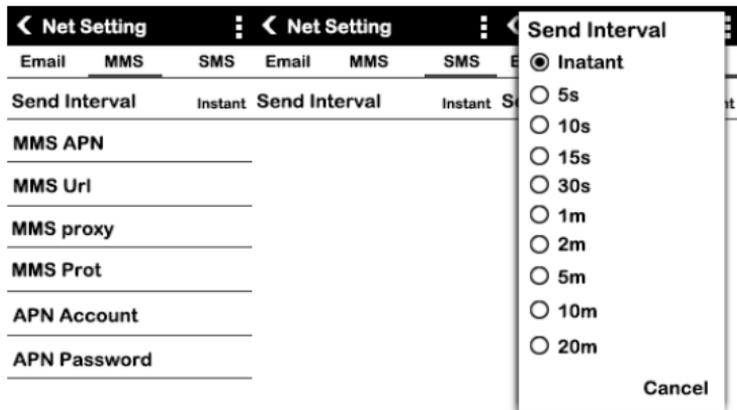
8.6 Camera Rename

The set camera can be renamed. Click the Rename option in the Setting List interface, user can change the camera name, the number of the SIM card in the camera, the number for configuration file sending and IMEI information. Input box for the initial set of information, user can delete the input box and input new information.
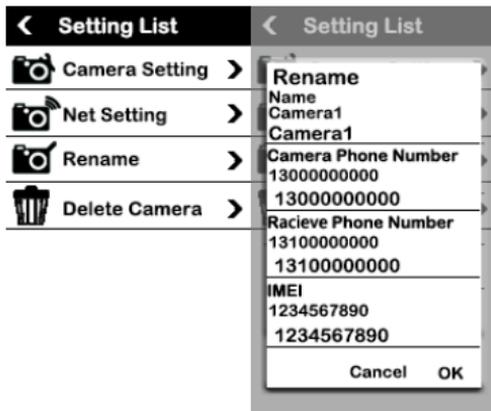
8.7 Delete Camera

User can delete the camera that not need, click Delete Camera to select OK to delete.

8.8 Parameters' Sending & Saving

Click on the upper right point of the page in the parameter

setting page, user can make the parameters send, save and save as the default value.

Send: Will call the phone's SMS function to send parameters to the camera.

Save: Save the parameters of the current page settings.

Save Default: Save the parameters of the current page as the default values, the parameters will be called directly in the next camera settings until it is changed.

‹ Camera	Send	
Mode	Save	
Image Size	Save Default	12MP
Videeo Size		720p
Shooting No		6photo
Video Length		5s
Time Lapse		off
PIR Interval		3s
Device No		120P
Timer1		⊙▭
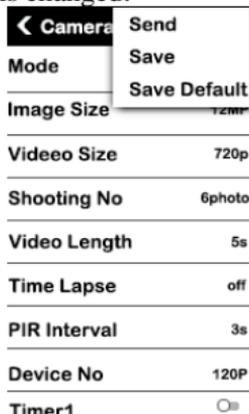
8.9   Parameters Receiving

When camera is in working condition, it will automatically change the configuration. And enable the new parameters for next shot.

In test mode, user can get parameters configuration from G3APP directly via SMS. Select the Get cfg option in the Set page of MENU and click OK. Then select "OK" when showing "Do you want to get configuration?", the display will be closed and wait for the parameters configuration information.

During acquisition, the blue LED flashes slowly and slowly, indicating that the parameter is being acquired. When completed the camera will automatically boot, the changed network parameters will be displayed, basic parameters can be confirmed by checking. If no message received after waiting for over 2 minutes , camera will automatically turn on.
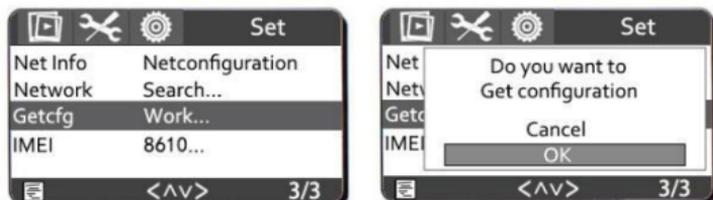
8.10 Software Version

In the camera interface, click the My area in the lower right corner, user can check the current software version. The current version is: G3 Andriod v1.0.0

9   PC Clint Setting

PC client application can be downloaded from the official website (www.Bushwheker.cn), without need for installation. Just download and decompress the G3set.exe program to run.

Please select the appropriate language and camera model.
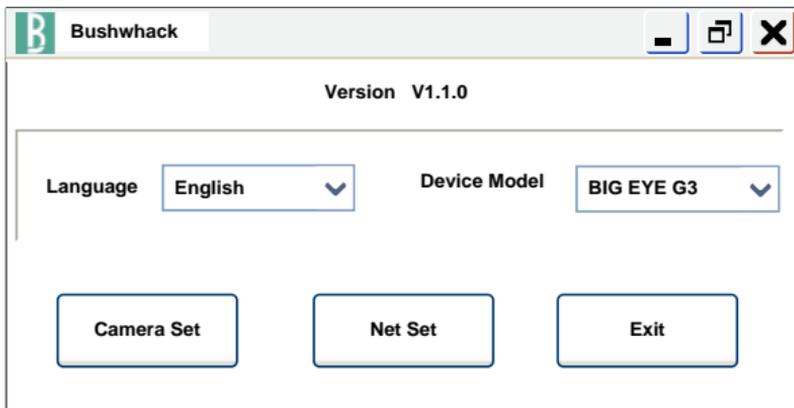
9.1   Camera parameters setting

Click the camera settings for the camera parameter settings.
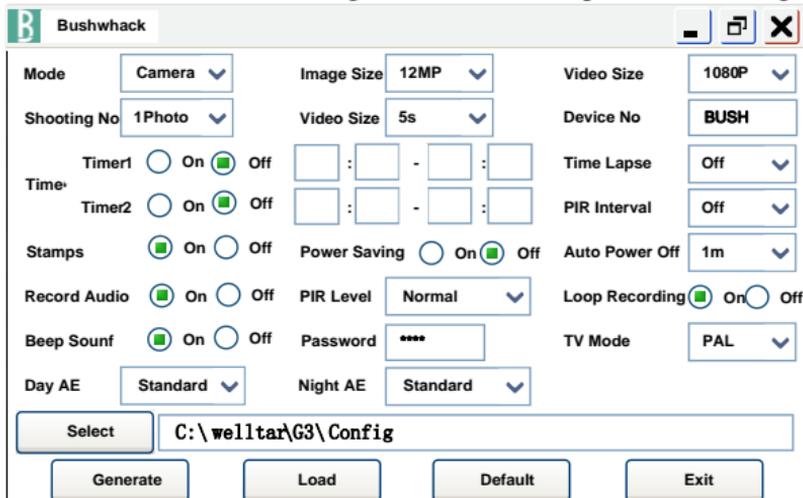
After parameter setting, click on the "Select" to select the file storage address. Click "generate" to generate the camera parameter settings file. Click "Exit" to exit the main menu interface.

Copy the parameter settings file of CameraSet.cfg to the SD card. Insert it to the camera and turn the key to TEST, camera setting is automatically finished.。

Load: When setting parameters, if the generated parameters are incorrect, click "Load" to select generate file to quickly restore the original parameters, then users can modify the parameters.

Default: restore default settings.

9.1.1 Network Parameters Setting

Click the network settings for the network parameter settings.

Select the "automatic" mode to set. After selecting the country, the operator, the software will use the network parameters provided by the system, by entering mailbox, telephone number and other parameters. Then you can use it. If the parameters provided by the system are incorrect or no option, the user can choose the "manual" mode, to fill in all the network parameters, e-mail, telephone number. For network APN, server used, port, APN account and APN password, please consult local communications operators.。

After parameter setting, click on the "Select" to select the file

storage address. Click the "generate" to output camera settings file to the directory of the file storage address. Click "Exit" to exit the main menu interface. Copy the parameter settings file of Camera NetSet.cfg to the SD card. Insert it to the camera and turn the key to TEST, and then the camera automatically sets the parameters.

Load: When setting parameters, if the generated parameters are incorrect, click "Load" to select generate file to quickly restore the original parameters, then users can modify the parameters

Default: restore default settings.

Set as Default: Saves the current settings as the default, no need to reset next time. If there is any change, click "Default" to restore the default value.

9.1.2　　Email Parameters Setting

In the network settings menu, select the EMAIL option for email mode parameter settings.

Fill Mode	Manual	**Picture Type**	● Original ○ VGA
Country	Untied States	**SMS**	● On ○ Off
Operator	AT&T	**Send Interval**	
● Email ○ MMS ○ SMS		**Phone Number**	
NET APN	Wap. cingular	**MMS APN**	
Send Server	Port	**MMS URL**	
Send Mailbox		**MMS Proxy Address**	**MMS Port**
Send Password			
Receive Mailbox		**APN Account**	wap@ cingulargprscom
CC Mailbox		**APN Password**	CINGULARI
Select	C:\welltar\G3\Config		
Generate	Load	Default	Save Default	Exit

After selection of the filling way, country, operators, it is needed to fill in the NET APN(Access Point Names), Send Server, Port, Send Name (Mailbox), Send Mailbox Password, Receiving mail, CC mail, Send Interval. For sending SMS, you need to fill in phone number. In some countries, it is required to fill in the APN

Account, APN Password. If the operator does not require, that two parts can be empty.

By this mode, the photos will be sent to the receiving mailbox by sending mailbox. The default is to send a thumbnail without message notice. If the original images and SMS notification are needed, you can choose to change.

9.1.3 MMS Parameters Setting

In the network settings menu, select the MMS option for MMS mode parameter settings.

After selecting the Country, Operator, it is needed to fill in the Send Interval, Phone Number, MMS APN, MMS URL, MMS Proxy Server, MMS port. In some countries, it is required to fill out the APN Account, APN Password. If there are no requirements for operators, the two parts can be empty. Please consult local operators for parameters.

Note: In MMS, only thumbnails are sent. SMS is not optional.

9.1.4 SMS Parameters Setting

In the network settings menu, select the SMS option for SMS mode parameter settings.

In this mode, it is required to set the Country, Operator, Send Interval, Phone Number. When sending SMS, the set mobile phone number can receive the text information of the image shot by the camera.

Note: Phone number format is "+8613800138000" or "13800138000".

After the completion of parameter settings of Email mode, MMS mode, SMS mode, select the "Select" to fill the storage location for generating files, and then click "Generate". Copy the generated NetSet.cfg to the SD card. Insert it to the camera and turn the key to TEST, and camera setting is automatically finished.

Mailbox supports three transmission methods, namely NOSSL, SSL, and STARTTLS. This depends on the server port number of mail, as follows:

    25   NOSSL
    465   SSL
    587   TLS(STARTTLS)

10 Firmware Upgrades

Manufacturer reserve the right of upgrading the product hardware and software. User may update camera software version through SD card (SD card capacity shall less than 32GB).

10.1 DSP Firmware Upgrades

1) Prepare a formatted SD card.
2) Copy the new version software document named "FWD3A.bin" to SD card root catalog.
3) Insert SD card into camera, dial ON/OFF key to TEST mode while pressing OK key, loosen "OK" key when the blue indicator light is flashing.
4) The blue light flashes continuously and the screen is off, indicating that the upgrade is in progress. Please don't power off or you need to do upgrades again.
5) Check the version number to see if the upgrade is successful.

10.2 Network Firmware Upgrades

Empty the SD card, extract the file sd_user.bin to SD card root directory, insert SD card into the machine and do not insert the SIM card, then switch to TEST mode, select the network to search network.

Then the screen will be black out, red and blue indicator lights flashing at the same time, after a few seconds the machine will light up again. Enter the menu view version, if prompted S: XX indicates that the upgrade was successful. Xx is the code before compression package. After the upgrade, users need to delete the upgrade file in the card or format SD card to avoid duplicate upgrades.

11 Main features and specifications
11.1 Main features
1) Picture pixels: 3MP/5MP/8MP/12MP/16MP.
2) HD video: 1080P 30 frames per second. The sound of the video can be set on or of.
3) In the "camera + video" mode, the camera after being triggered to start every time, the camera will take pictures first and then record a scene video.
4) 42 infrared LEDs, in power-saving mode, only 20 infrared LEDs work; 850nm/940nm two kinds of lights are optional.
5) Starting speed at 0.5 seconds.
6) 2.4' TFT color LCD screen.
7) Important pictures can be locked to avoid deletion.
8) Continuous shooting for 6 pictures.
9) 7 kinds of exposure effects optional, user can choose photo brightness based on the need with different shooting environment.
10) You can set a specified period every day for the camera to work. And you can set two timers。
11) PIR interval function, can avoid the multi shot for the same object that stays for a long time.
12) By time lapse function, the camera will be set at a time interval to take pictures, which is very useful to observe the flowering of plants, birds nest, as well as monitoring unattended places, such as parking, garden.
13) Auto power off in 1-10 minutes whiles no keypad controlling.
14) Date, time, temperature, moon phase and battery capacity can be stamped in the picture.
15) 7 operation buttons. The beep sound can turned on or off.
16) Free choice of TV out at PAL/NTSC.
17) Maximum 64GB SD memory card is supported（SD should be FAT32 format）.
18) Low standby power consumption, up to 6 months of standby time.
19) When power alarms for low battery, there is a low power logo

on the screen with a red light flickering.
20) 1~8 zoom playback for viewing.
21) Supportive for nine square pictures browsing and auto play mode.
22) Device number will be showed on image file name, this helps users identify which cameras captured the image when browse files.
23) You can set a password for power-on.
24) Two sets of precise timing settings.
25) Color pictures at daytime, monochrome pictures at night, switched automatically.
26) Supportive for loop recording, which automatically deletes the earliest photos or videos and makes room for new ones.
27) Dentate design on the back is more convenient for camera mounting.
28) The battery hatchway cover can effectively avoid corrosion damage to camera caused by leakage of battery.
29) Image transmission speed is high, transmit image via SMTP/MMS, network support GPRS / 3G.
30) With SMS notice and remote control functions.
31) Supports thumbnail or original transmission.
32) Can flexibly set images transmission time, can select the instant sending or interval sending.
33) Set parameter on computer, which is more convenient.
34) If no trigger for 12 hours, it will send safe messages (time, electric quantity, storage capacity).

11.2   Parameters

Items	Parameter
Work Mode	Camera / Video / Camera+Video
Photo Size	3MP:2048$\times$2536 ; 5MP:2542$\times$1944 8MP:3264$\times$2488 ; 12MP:4032$\times$3024 16MP:4640$\times$3480
Video Size	VGA：640x480
	WVGA：800x480

	720P：1280x720@30fps
	1080P：1920x1080@30fps
Working Time	Day /night, auto-induction switch
Lens	FOV=90 degree (G3R:50 degree), F=2.4 (G3R:2.5), auto-induction switch filtering
IR Flash Distance	65 feet / 20 m
Infrared Lamp	42pcs; Visible light lamp/invisible light lamp selectable
AE	+ 3, + 2, + 1, standard, -1, -2, -3
Power Saving	On/off; Only 20 lights work after opened
LCD screen	2.4 inch, TFT colors
Operation Keypad	7 buttons
Beep Sounds	On/off
Memory	SD card, maximum support 64GB
PIR Level	High/Normal/Low
PIR Sensing Distance	65 feet / 20 m
PIR Sensing Angle	90 degree (G3R:50 degree)
Trigger Time	0.5 seconds (when use 2 GB card)
PIR Interval	3 seconds ～60 minutes, Programmable
Shooting Number	1～6 photos (1～3 photos when in 16MP)
Lock Image	Locked or unlock image
Video length	5 seconds～10 minutes, Programmable
Camera + Video	Take photos first, and then record video
Playback Zoom	1~8 times
Slide Show	Yes
Loop Recording	On/Off
Stamps	On/Off, Logo, temperature, moon phase, date, time,battery power
Timer	On/ Off, can set two timers
Time Lapse	5 seconds ~ 24 Hours, Programmable
Password	4-digit number, each digit can be freely set

	with 0 ~9
Device No.	4-digit number, each digit can be freely set with 26 alphabets or 0~9.
Power Supply	4×AA，8×AA
Network Band	800/850/900/1900/2100MHz
Email	Two mailboxes can be set. Message notice can be set at the same time. Either original (maximum 16M) or thumbnail (640x480) can be sent.
MMS	Only send thumbnail (640x480)
SMS	Send message notice
Sending Interval	Instant, 5sec~1 hour, Off
Safety Message	No trigger for 12 hours, it will send message (time, electricity quantity, remaining storage capacity) to designated cell phone.
External DC Power Supply	6V/2A
Standby Current	0.4mA
Standby Time	3~6 months (4×AA~8×AA)
Auto Power Off	Automatic shutdown can be set for 1~10 minutes with no operation.
Power Consumption	200mA(+700mA when IR LED lights up) 250mA (start network, maximum peak is 400mA)
Low Battery Alarm	4.8V
Dimensions	148×99.5×81 (mm)
Net Weight	350g
Interface	TV-out/USB, SD card slot, 6V DC power port,network antenna, SIM card slot
Mounting	Strap; Tripod nail
Waterproof	IP66
Working temperature	-22～+158 ℉/-30～+70 ℃

Working Humidity	5%～95%
Certificate	FCC＆CE＆ROHS

12   FAQ

Please check below items if camera cannot start normally

- No batteries;
- Batteries are not installed correctly;
- Run out of battery;
- Batteries do not comply with specifications;
- Not tune function switch to ON state yet;
- Not insert SD card yet;
- SD card is full loaded or damaged;
- SD card capacity has surpassed the maximum support capacity 64GB；FAT32 format;
- PIR sensor sensitivity setting grade is too low;

If the camera cannot get the remote picture and Information, you can check:

- SIM card contact is bad, the installation is not in place；
- SIM card has no sufficient funds；
- The location has no signal；
- Battery capacity is insufficient；
- Network setting parameters are incorrect；
- Turn off interval sending time duration option。
- Search the network to see the current network signal strength, if no signal or search failed, it is recommended to change the camera location.
- Send Debug file.txt to manufacturer for troubleshot.
- All information effected by the operator, signal strength and other factors, may not be able to receive in time

13   Warranty Policy

We value our customers very highly and would like to ensure that our products and service are always of a top standard. However, if you are experiencing issues with your Bushwhacker products, please take a moment to read through the information below to establish whether your products are covered under the warranty.

WARRANTY

We guarantee our Bushwhacker cameras to be free of defects in materials and workmanship under normal use and service for a period of a limited times after registered date of purchase.

EXCLUSIONS

This warranty does not cover damages caused by misuse, abuse, improper handling or installation, or improper storage conditions and natural disasters, by user installed batteries, or by repair attempts of someone other than our authorized technicians, nor does cover loss or theft.

This warranty extends solely to failures due to defects in materials or workmanship under normal use. It does not cover normal wear of the product. The camera manufacturer can provide extra service for your camera after the warranty expiration, but the customer have to be responsible for extra charges on parts, labor and shipping costs therefore brought.

Please keep the warranty card for guarantee to keep in repair.
Please contact the regional distributor for more details.

14   Standard Packing List

Component name	Quantity
Camera	1
Antenna	1
USB Cable	1
TV Cable	1
Strap	1
Manual	1
Warranty Card	1

Important reminder：

- Users need to purchase batteries, please use high quality battery.
- Users need to purchase SD card, please use high quality SD card for better use.
- Users need to purchase SIM card, please choose superior operators.

15   Statement

1. The manufacturer reserves the right to make corrections at any time to the contents of this manual due to inconsistencies in editing / typographical errors and product upgrades and includes modification in new version of the manual. These amendments are without notice.

2. The manufacturer is not responsible for any illegal use; please comply with local legal permission.

3. The manufacturer is not responsible for any data loss of the user.

4. The manufacturer is not responsible for any damages orcasualties caused by the user's misuse of the product.

BIG EYE G3

INFRARED WILDLIFE CAMERA

Google Play | WildCam | 🔍
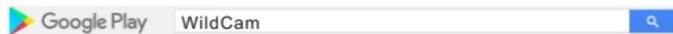
Welcome to use **WildCam** APP to set parameters.