MMS/GPRS Security Camera

User's Manual

BG500 series

For model：BG500L/BG500K

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1 Product Feature

1.1General Description

The BG500 series security camera is a mini MMS/GPRS alarm system, based on MMS (Multimedia Messaging Service), GSM SMS (Short Message Service) and GSM voice technologies. When it is activated, it will send MMS (pictures) alerts to your mobile phone or e-mail address immediately once the monitored region is abnormal. Also, it has two way communication functions. You can let the MMS/GPRS alarm system send pictures to you any time.

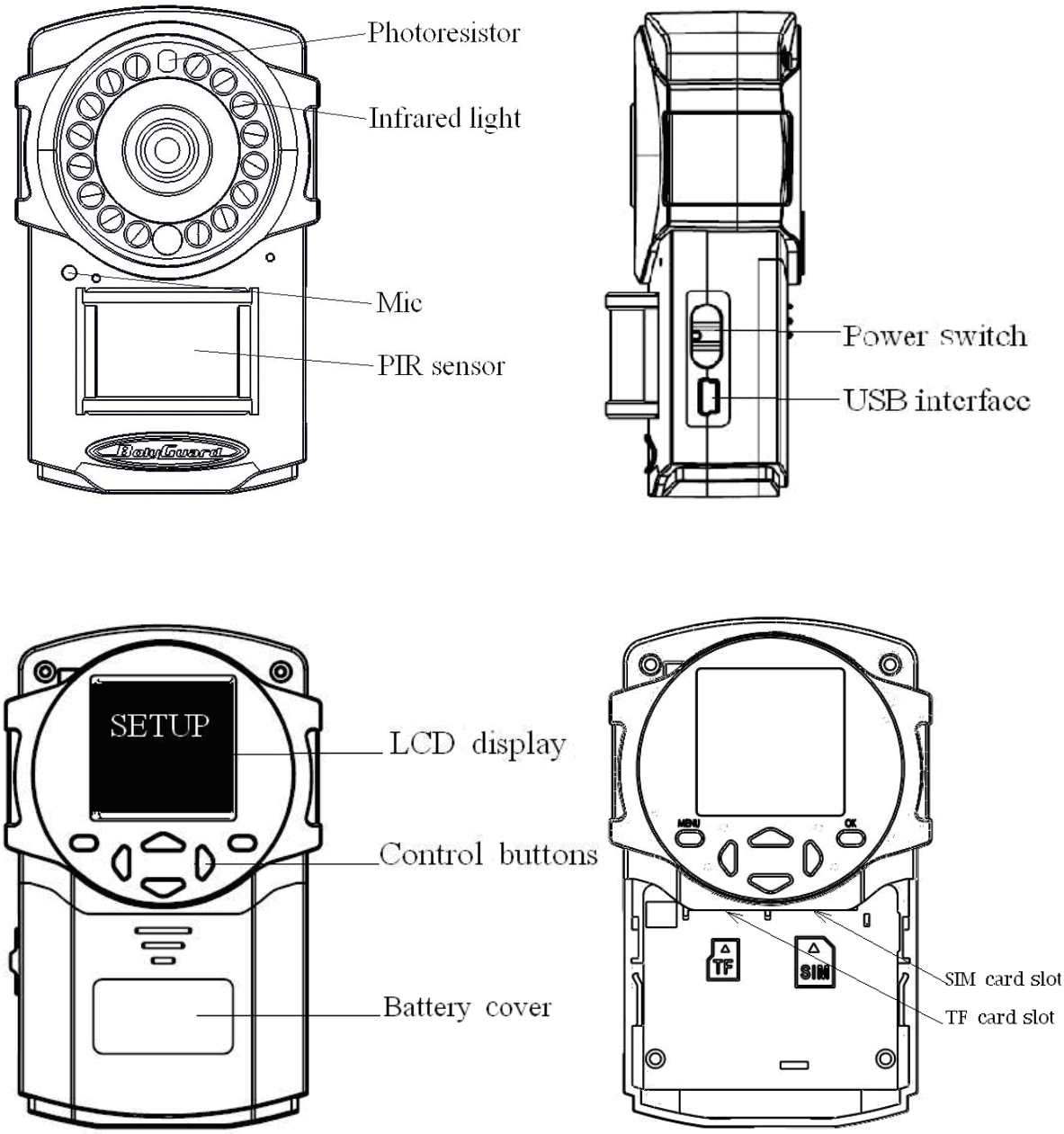
The BG500 series can monitor your home, office, shop, store, warehouse or factory by your mobile phone from everywhere and any time.

The MMS/GPRS alarm system BG500 series security camera can be programmed by PC programmer tool through TF card, USB cables or SMS command. This is a worldwide new solution.

1.2 Camera Overview

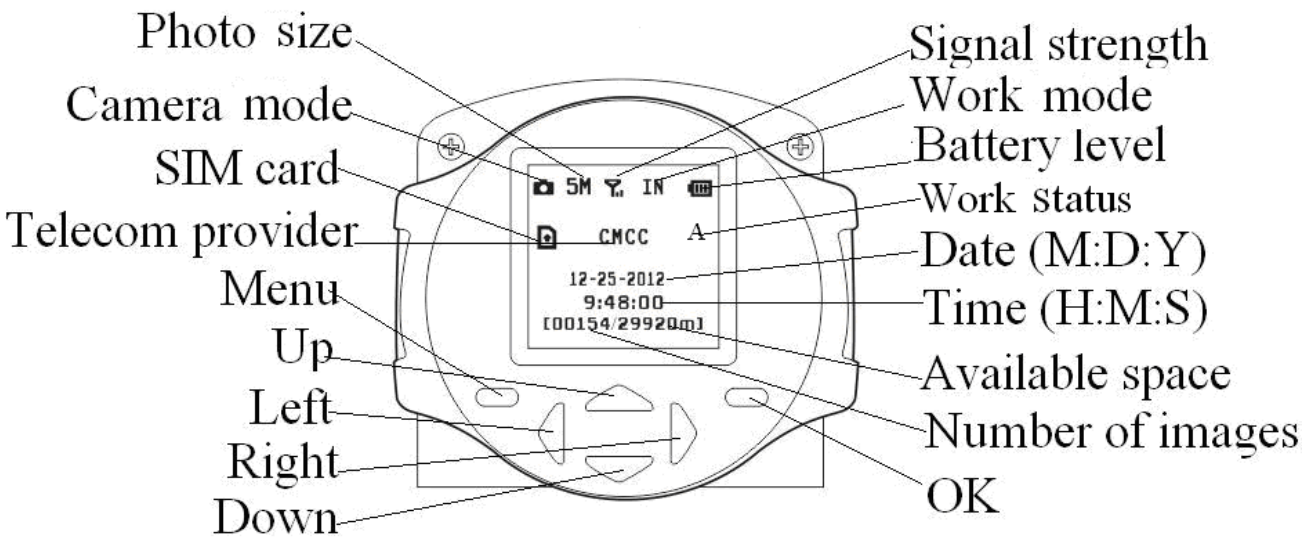
The camera has a LCD display for easy setup and has the following I/O interfaces: Power/USB connector, Micro SD card slot, and SIM card slot.

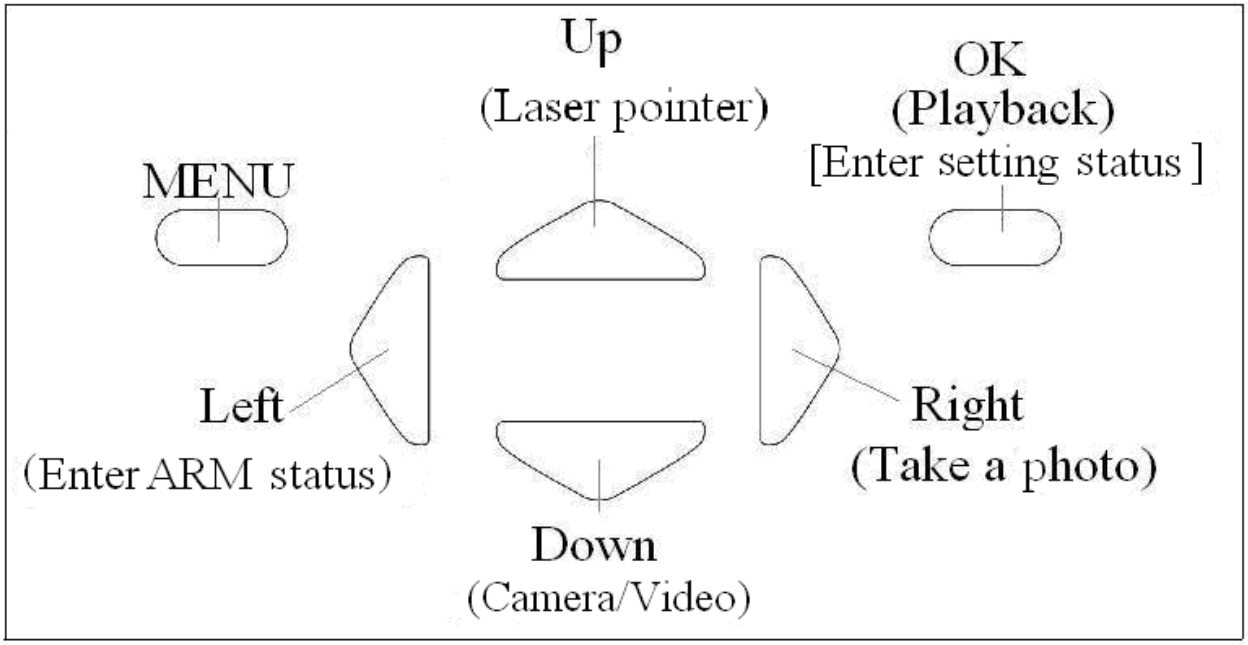
Take a few moments to familiarize with the camera controls and displays. It is helpful to bookmark this section and refer to it when you read through the rest of the manual.



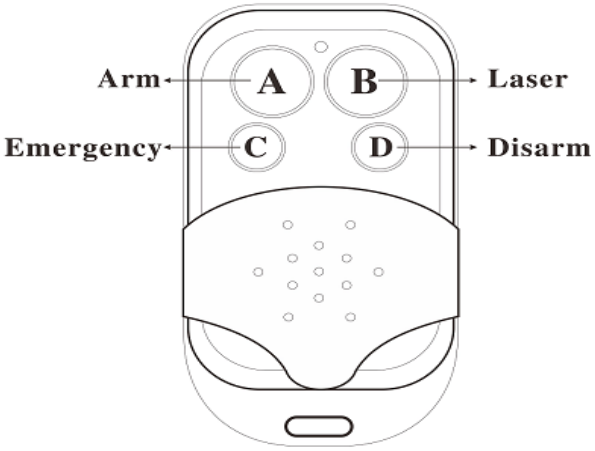
1.3 Shooting Information Display

When the camera is turned on (the power switch is slid to **ON** position), the camera setting information will be displayed in the monitor.





*The function in ( ) can work only in Setup status;
*The function in [ ] can work only in Arm status.



1.4 Product Feature

1. This camera can take 5megapixel photos and VGA videos.
2. It uses TF card (Micro-SD card) to store images and videos.
3. It can send MMS images to the mobile phone or to an e-mail address. It also can give a call to you when the camera is triggered.
4. It uses integrated PIR detector to provide precise and timely alarm.
5. It is equipped with infrared LED. So even in dark environment, this camera can get clear B&W images.
6. It supports SMS remote control. Users can control the camera by SMS command or calling.
7. Listen in the monitoring area: call the device number to listen in the monitoring area. (Only pre-set number to dial the camera)
8. Schedule monitor: user can set the camera's working time as the preset schedule.
9. Built-in lithium battery: Rechargeable battery ensures operation in case of external power failure.
10. Easy installation: wireless connection, suitable for home use.

2 Cautions

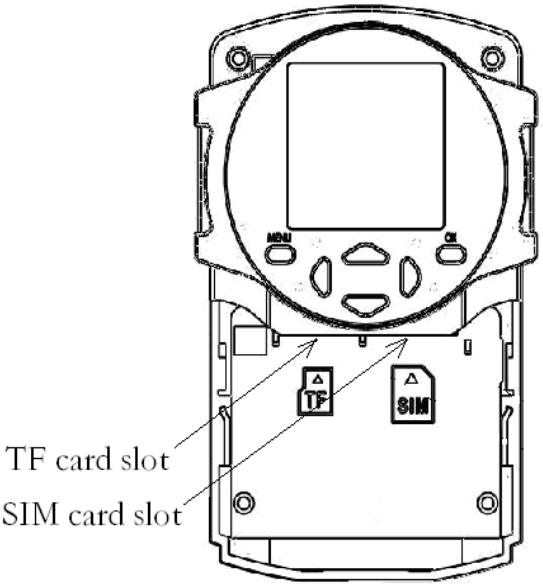
- ✧ Please use this product according to the law. Respect one another's privacy. Do not monitor other people's home or privacy. We hold no responsibility for the illegal use of this product.
- ✧ We don't guarantee for the document veracity, reliability or any content except regulated in proper laws.
- ✧ We hold no responsibility for any loss of data or income; or any special, incidental, consequential or indirect damages howsoever caused.
- ✧ The contents of this document are provided "as is". Except as required by applicable law, no warranties of any kind, either clear or implied, including, but not limited to the accuracy, reliability or contents of this document. We reserve the right to revise this document or withdraw it at any time without prior notice.

3 Quick Start

3.1 TF card and SIM card

Open the battery cover. Insert TF card and SIM card into the card slot in accordance with the direction shown. Follow the right direction.

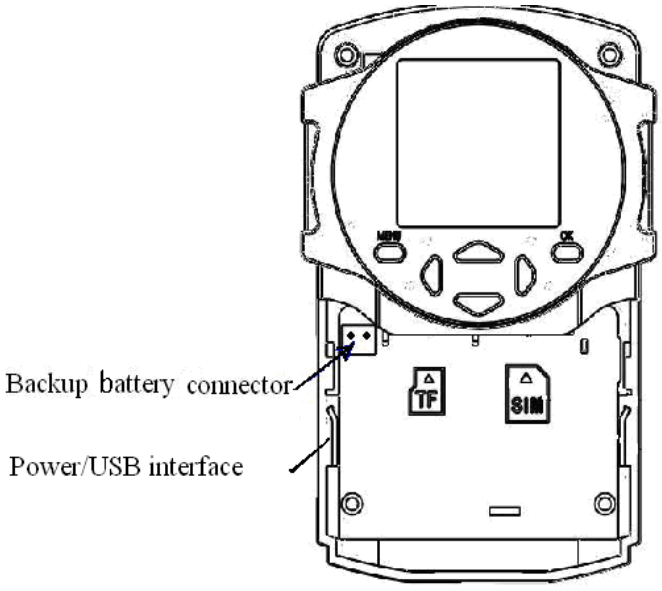
Please make sure that **your SIM card has opened the GPRS data business** before use.



3.2 Battery and power adapter

Open the battery cover. Find the spare lithium battery connector and insert the lithium battery.

Connect the power adapter into the Power/USB interface for power supply and slide the power switch to ON position.



Please note that **it's recommended to use the adapter to supply power and use the lithium battery to be a power backup**.

If your camera's **Work Mode** is **Indoor Mode**, please supply with power adapter.

3.3 Quick start

Settings must be done

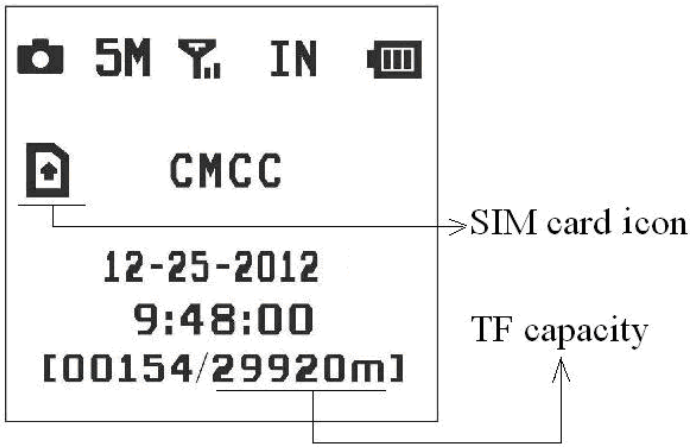
1) Must set a administrator number to the security camera.
2) Must correctly set the network parameters for MMS and e-mail.
3) Must have at least one receiving phone number and one receiving e-mail address.
4) Must correctly set your **Work Mode**: Indoor (Power adapter) or Outdoor (Lithium battery).
5) Must choose a proper **Send to Mode**: Phone[MMS], Email[GPRS], Call，Local.

***[1-4 can be set on computer via profile.txt file or mobile phone via SMS]**

STEPS:

Step1: confirm cards status

Confirm the TF card and SIM card are inserted correctly. You can see the card status on the display.



means the SIM card is inserted and works well. means no SIM card or the SIM card is not properly inserted.

TF Capacity means how many pictures can be stored. **It should be a nonzero number.**

Step2: edit MMS parameters via computer

1) Use the USB cable to connect the camera with your computer.

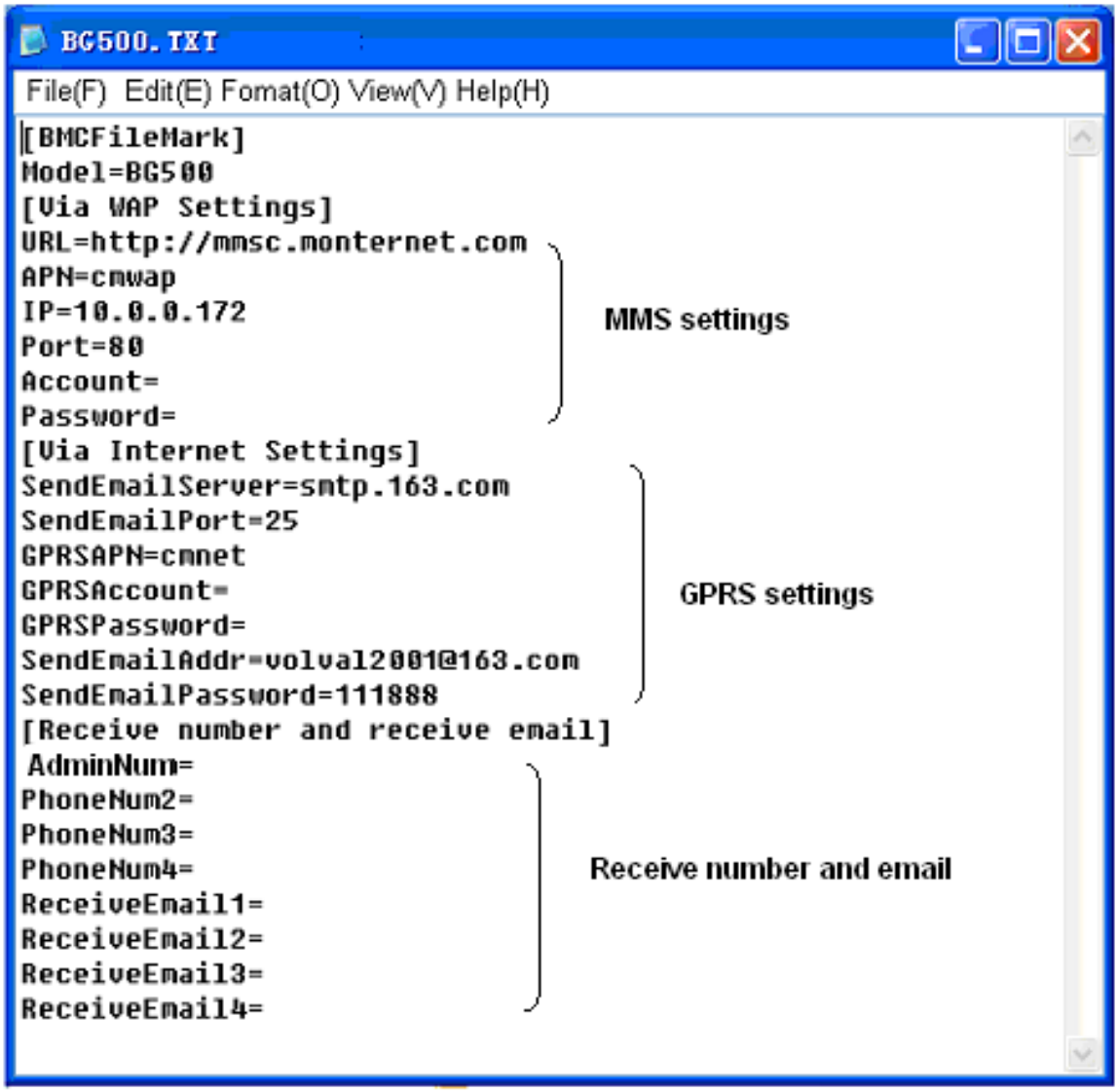
2) Wait for the 10-20 seconds for the camera to acquire a signal. After the SIM card icon appears, press "**MENU**" to enter into set up interface.

3) Select submenu "**Send to**" to choose **Phone [MMS]**, and press "**OK**" to check the settings. Then press "**OK**" again to exit.

You will receive the MMS with your mobile phone not email. Please make sure that your mobile phone also opened the data business.

4) Select submenu "**USB Storage**" and enter into "Mass Storage".

5) Find the file "BG500.txt" in a folder named "GSM" in the new removable disk of your computer. Reedit the file "BG500.txt" to set the MMS and GPRS parameters. Below is for reference.



Different telecom providers have different parameters. Please contact your network service provider for the detail telecom parameters.

Step 3: send MMS manually

After you finish the MMS settings in the computer, please restart your camera.

After the camera acquiring the signal and the SIM card icon appears, target an object and press **“►”** to take a photo manually.

After the number of image changed, press “**OK**” to playback the photos, press “▲”and“▼” to switch to

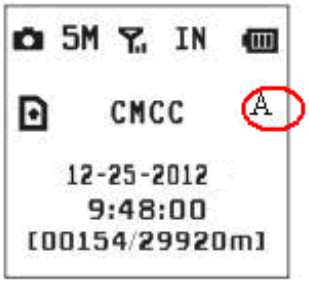
previous or next photo. Then press "**MENU**" and you can see a **send Phone [MMS]** interface, press "**OK**" to send out the MMS.

After a few seconds, you will receive a MMS in your phone.

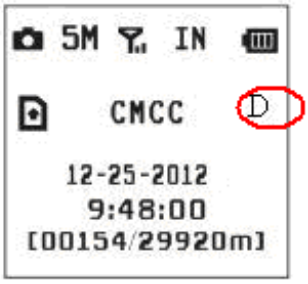
Step4: go to Arm Status

Arm status is the normal work status. If the camera is in Setup status, you can press "◀" key to switch to arm status. To find the detail of the three statuses, please refer to 4.2.

Setup status



Arm Status



Disarm Status

Step5: get on spot images via SMS

When the camera is armed and the **Send to** Mode is Phone [MMS], you can send text message "**#T#**" to your camera's SIM card number to get an on spot image.

4 Advanced Operations

4.1 Mount the camera

Camera can be mounted on a wall or put down on any suitable horizontal surface.

1) In accordance with a base board installing hole, make holes on the wall with a power drill.

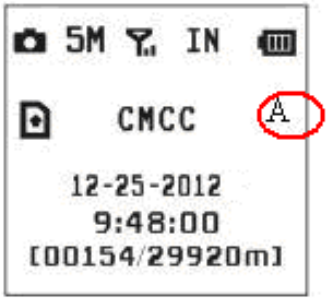
2) Fix base board with the host by connecting screw hole.

3) Press "▲"button to open or close the laser pointer for helping adjust the shot area.

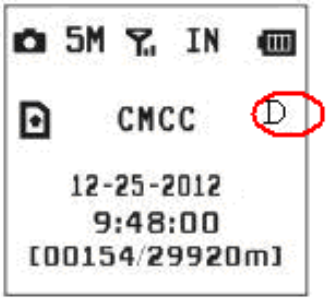
4.2 Three camera statuses

From the basic operations of the camera in the previous chapter, we know that the camera has three basic operation statuses:

Setup status



Arm Status



Disarm Status

Setup Status: You can change or check the camera settings in this status. You also can change camera settings via SMS when it's in **Arm status** and **Indoor Mode**.

Arm Status: It's the work status. When there is an intruder, the camera will take photos and send the on shot photos to your phone or e-mail.

Disarm Status: The camera will not be triggered and can't take photos in disarm status.

4.3 Change camera settings via control panel

To view the camera settings menu, press MENU in the Setup status. The setup menu will be shown on the LCD.

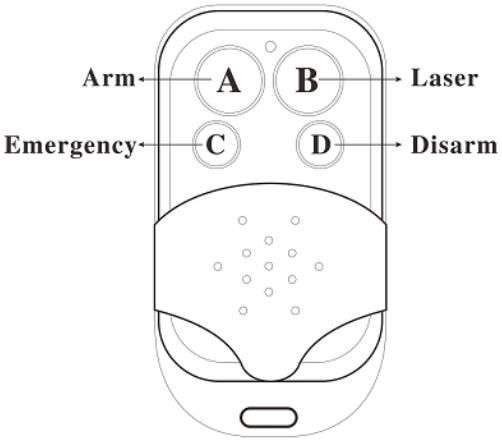
Submenu	Description
Camera Mode	There are two camera modes: **Camera** or **Video**.
USB Storage	After you set USB storage, your camera can be used as a U-disk. You can edit your MMS settings under USB mode.
Work Mode	**Indoor Mode:** **You need to use the power adapter to power supply.** The lithium battery can be just a backup for urgency. Otherwise, the lithium battery will be quickly consumed. **Outdoor Mode:** You can use the lithium battery as power supply for several days. But you need to set the camera work mode as outdoor mode. It's a power-saving mode, so all 433 wireless sensors including the remote control will not function in outdoor mode. Note: please fully charge the lithium battery when you first use.
Set Clock	Set date and time.
Photo Size	You can choose 5 megapixel or 3 megapixel for picture size.
Photo Burst	It means Continuous Capturing Number. This parameter affects the number of pictures taken for each triggering in Camera mode. It has 3 values: "1 Photo" to "3 Photos".
Video Length	It extends from 5 to 60 seconds with a step of one second.
Time Lapse	Time lapse means the camera can capture

	images or videos at a preset time intervals regardless of whether motions are detected. The default parameter is Off which means the timer function is disabled. Changing this parameter to a non-zero value turns on the Time Lapse mode, and camera will take photos at given time interval. ***Please note that if the PIR trigger is set to Off, then time lapse can't be set to Off.***
Format	Format the SD card. All the data including images and videos in the SD card will be deleted.
PIR Trigger	This parameter defines the sensitivity of the PIR. There are four parameters: **High, Normal, Low and Off.** The default value is "Normal". The higher degree indicates that the Camera is more easily to be triggered by motion, taking more pictures or recording more videos. It is recommended to use high sensitivity degree in room or environment with little interference and to use lower sensitivity for outdoor or environment with lots of interference like hot wind, smoke, near window etc. Furthermore, the sensitivity of the PIR is strongly related to the temperature. Higher temperature leads to lower sensitivity. Therefore it is suggested to set a higher sensitivity for high temperature environment. ***Please note that if time lapse is set to Off, then PIR trigger can't be set to Off.***
PIR Interval	This parameter means how long the PIR (Passive Infrared motion sensor) will be

	disabled after each triggering in ON mode. During this time the PIR of the device will not react to the motion of human (or animal). The minimum interval is 0 second. It means the PIR works all the time. The maximum interval is 1 hour. It means the PIR will be disabled for 1 hour after each triggering. The default value is 1 minute. Press "◄" and "►" to decreases or increases the value.
Send to	There are 4 **Send to** modes: 1 Phone [MMS]: send images to mobile phone. 2 Email [GPRS]: send images to e-mail address. 3 Call: calling your preset phone number is triggered. 4 Local: just store images in the TF card, do not send out. You should set your receiving phone number or your receiving e-mail address in the BG500.TXT file to function it.
Work Day	Choose the days of the week to let the camera work.
Work Hour	Choose a time period of a day to let the camera work. The camera will be awaken at the setting time duration in a day. In the rest of the time the camera is sleeping. Set Work Hour as Off means the camera works all day.
Study Code	This camera supports to connect with 433MHz wireless device, such as infrared body sensor, wireless door magnet, wireless smoke detector etc. The devices can be set as alarm sensors of the camera. All the device should be

	studied with this camera first. Please see 4.5 to find the method to connect or remove a wireless sensor.
Format SD	If you choose “Format SD”, the system will delete all images or videos stored in the SD card. So make sure that you have made a backup of important data.
Default Set	Restore customer settings to default values.

4.4 Use the Remote control



When it’s in **Indoor Mode,** you can use the remote control to easily arm (button A) or disarm (button D). Also you can dial the emergency numbers via button C in case of emergency. Press button B can open or close the laser (you can easily mount the camera with the help of the laser pointer.).

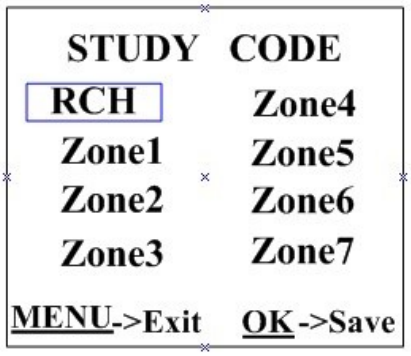
Button A: Arm the camera;

Button D: Disarm the camera

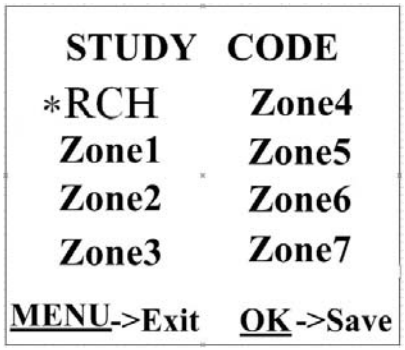
Button C: Emergency call button

Button B: Laser pointer;

Setup status



Study Code Menu



Study Code Menu

Method to add remote control(s) to the camera:

Enter the Setup status, press **Menu** and enter the **Study Code** submenu. Choose "**RCH**", press **OK** button, then press button **A** of the remote control. When it's successful, there will be a "*****"before **RCH**.

Please note that the remote control just can be used in **Indoor Mode**. In **Outdoor Mode**, the remote control will not function.

4.5 Load or remove a wireless sensor

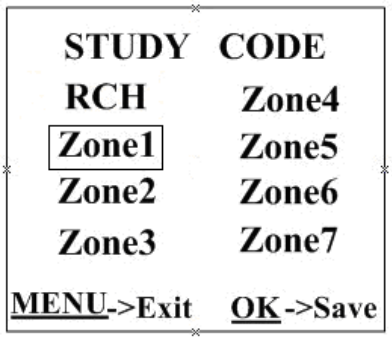
Any 433MHz wireless sensor, such as infrared body sensor, wireless door magnet, wireless smoke detector etc. can be set as an alarm sensor of the camera.

Method to load or remove a wireless sensor:

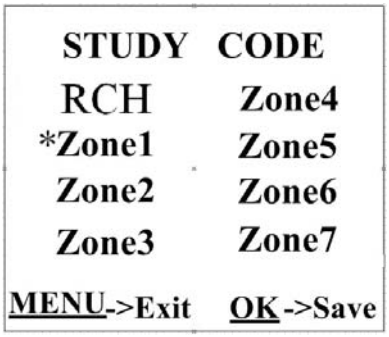
1. Power on the wireless sensor.

2. Enter the Setup status, press **Menu** and enter into the **Study Code** submenu. Choose a zone, for example Zone1, press **OK** button, then trigger the wireless sensor to check if the sensor is loaded successfully. When it's successful, there will be a "*" before the zone number.

Setup status



Study Code Menu



Study Code Menu

3. When you want to remove the wireless sensor. Please enter the study code menu, press LEFT button to cancel the "*". If there is not a "*" before the zone, it means the sensor has been removed from the camera.

4.6 Change the settings via SMS

When you are far away from your house, you can get spot photos or change camera settings via SMS.

4.6.1 User level

There are two user levels: administrator and normal users. Each user has a different authorization level:

Functions	User Level
Set administrator number	Only administrator's password
Set administrator 's password	administrator
Set camera parameters	administrator
Set normal user	administrator
Receive emergency calling	administrator, normal user
Send SMS for on spot picture	administrator, normal user
Call the camera to listen in live voice	administrator, normal user
Receive MMS when triggered	administrator, normal

	user
Check camera status	administrator, normal user
Get help information	administrator, normal user

4.6.2 Set administrator number

You should set a administrator number to receive MMS or control your camera when you first use this camera.

Method 1: send SMS command:

Send **#BG500#5555#your phone number#** to your camera's SIM card.

Here **5555** is the original administrator's password. Please note all the SMS commands should begin and end with "**#**".

For example, if your phone number is 13800138000, you can edit **#BG500#5555#13800138000#** to set your phone number as the administrator number.

If successful, reply SMS: **Dear administrator, your number is 13800138000**.

If failed, reply SMS: **Please check the password.**

Method 2: editing the profile file BG500.TXT:

Edit **administrator Num=13800138000**

4.6.3 Set normal users

You can set at most 3 normal users. And the normal users should be set by the administrator.

Method 1: send SMS command:

#N#13800138001#13800138002#13800138003#

Reply SMS: **http://mmsc.monternet.com**,

10.0.0.172, 80, cmwap,,, administrator number, PhoneNum2, PhoneNum3, PhoneNum4

Method 2: editing the BG500.TXT:

PhoneNum2=xxx,PhoneNum3=xxx,PhoneNum4=xxx

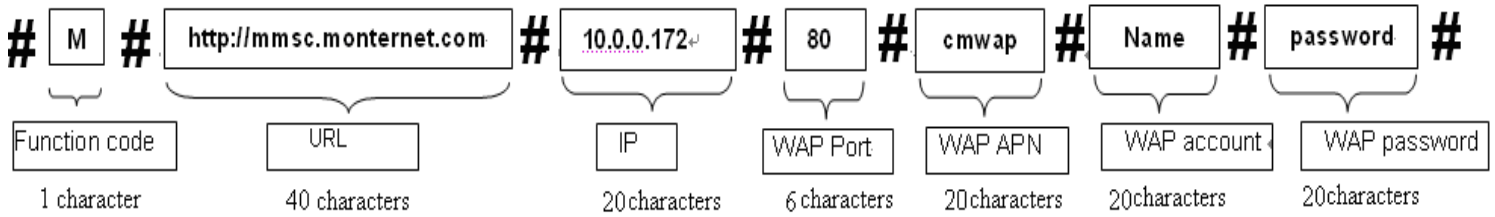
4.6.4 Set MMS parameters

If you want to get instant MMS images when the camera is triggered, you should set the MMS parameters correctly.

Method1: send SMS command:

#M#URL#IP#Port#APN#Account#Password#

The following chart shows the meaning of each field. Please note there is a "**#**" between each field. Please don't forget the character "**#**" at the end of the command.



Please note each field has a max. character number limit.

If successful, reply SMS: **http://mmsc.monternet.com, 10.0.0.172, 80, cmwap, name, password, 13800138000, , , ,**

If failed, reply SMS: **Command error. Please check again!**

Method2: Reedit the BG500.TXT in the computer to set the MMS parameters, below is for reference:

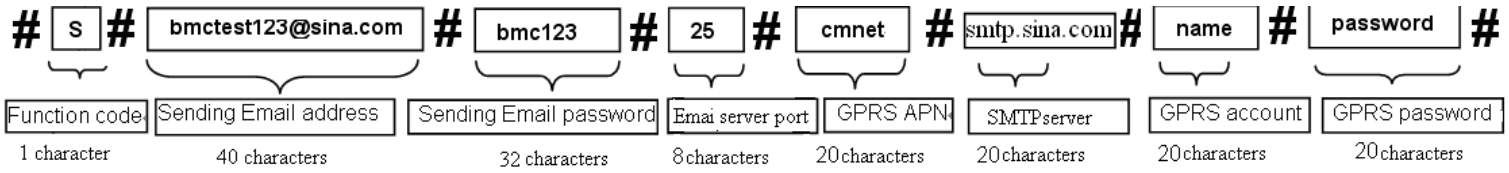
For more details of URL, APN, IP, Port, Account and Password, please contact your network service provider.

4.6.5 Set email parameters

You also can choose Send Email mode to get the pictures via a cheaper channel. This Send Email mode can send out the pictures via GPRS internet ,not WAP, so the communication cost is much lower than MMS.

Method1: send SMS command:

#S#Sending E-mail address#Sending email password #Sending email server port#GPRS APN# SMTPServer#Account #Password #



If successful, reply SMS: **bmctest123@sina.com , bmc123, 25, cmnet, smtp.sina.com,,,,**

If failed, reply SMS: **Command error! Please check again.**

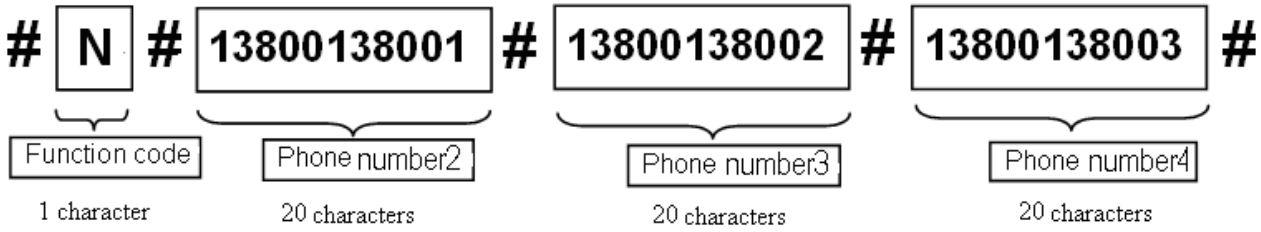
Method 2: re-edit the BG500.TXT in the computer to set the e-mail parameters.

For more details of GPRS APN, GPRS account and GPRS password, please contact your network service provider.

4.6.6 Set receive phone number

Method1: send SMS command:

#N# Receive phone number 2# Receive phone number 3# Receive phone number 4#



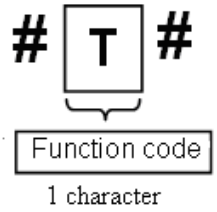
The first receive phone number is the administrator number.

Reply SMS: **http://mmsc.monternet.com, 10.0.0.172, 80, cmwap,,, administrator number, receive phone number 1, receive phone number 2, receive phone number 3,**

Method2: editing the BG500.TXT: fill the receive phone number field.

4.6.7 Get on spot photo

Method: send SMS command:



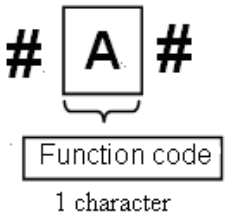
Edit SMS **#T#** send to your camera's SIM card.

If successful, the camera will take an on-spot picture and send to your mobile phone.

If failed, reply SMS: **Photo error: xx**, **Settings error: xx**, **MMS error: xx** or **Time out**!

4.6.8 Arm

Method1: send SMS command:



Edit SMS **#A#** and send to your camera's SIM card.

If successful, reply SMS: **Arm mode is active!**

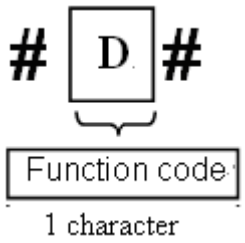
If failed, reply SMS: **Command error! Please check again.**

Method2: use the remote control

Use the remote control, press the **button "A"** to arm the camera;

4.6.9 Disarm

Method1: send SMS command:



Edit SMS **#D#** and send to your camera's SIM card.

If successful, reply SMS: **Disarm mode is active!**

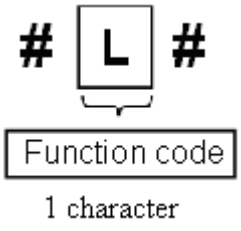
If failed, reply SMS: **Command error! Please check again.**

Method2: use the remote control

Use the remote control, press the **button "D"** to disarm the camera.

4.6.10 Check camera settings

Method1: send SMS command:



Edit SMS **#L#** and send to your camera's SIM card.

If successful, reply SMS: **Email address, password, port, SMTP Server, protocol, email1,email2, email3,email4, mms serve net address, server IP,**

port, protocol, Number1, Number2, Number3, Number4, Alarm: on /off, Interval 0m:0s,photo Burst 1, Send Mode: Local/Number/Email, Work Day 1111111, Timer: off/on 09h00m:17h00m, Date Time:2011/7/12 18:12:12,Active Zone:0111111

4.6.11 Set camera parameters

You can send SMS commands as the table shows.

1	#e#b1#	B: Photo burst 1: the numbers of continuously taken photo after trigger (1 picture~3 pictures)
2	#e#cv#	c: Camera mode V：video；P：photo
3	#e#t#	T: Set clock.
4	#e#i5s #	I: Trigger interval 5s: the range is from 0s to 60m.
5	#e#l1h#	L: Time lapse 1h：off, 5m~59m, 1h~8h
6	#e#mp#	M: Send mode p：phone[MMS]; l：local; e：e-mail; c：call.
7	#e#pn#	P: PIR Trigger sensitivity n：normal；h：high；l：low；o：off
8	#e#s3#	S: Photo size 3: 3MP or 5MP.
9	#e#hon10:10-22:22#	H: Work hour on: on10:10-22:22: it means the PIR sensor will work from 10:10 to 22:22； off: it means the PIR sensor will work all the time
10	#e#v10#	V: Video length

		10: the range is from 5s to 60s.
11	#e#d1110011#	D: Work day：1 means ON，0 means OFF. From Sunday to Saturday.

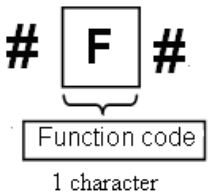
If successful，reply SMS: **Arm: On, Photo, 5M, Pir-Trig: Normal, Interval:0s, AV-Len:10s, Lapse: Off, Burst:1, Mode: Phone, W-Day:1110001, W-hour: Off, 2013/01/22 16:41.**

If failed, reply SMS: **Command error! Please check again.**

Note: **#E#** can't be omitted when use this command to change any camera settings.

4.6.12 Format TF card

Method1: send SMS command:



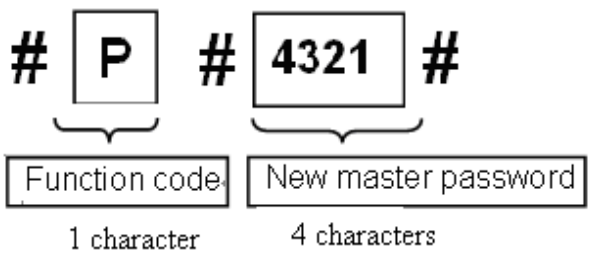
Edit SMS **#F#** and send to your camera's SIM card.

If successful, reply SMS: **Format SD card successfully!**

If failed, reply SMS: **Format SD card failed!**

4.6.13 Get administrator's passwords

Method1: send SMS command:



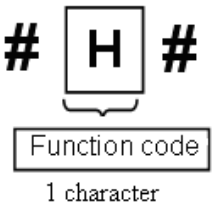
Edit SMS **#P#your password#** and send to your

camera's SIM card.

If successful， it will reply SMS: **The password is successfully changed to 4321.**

4.6.14 Get help

Method: send SMS command:



Edit SMS **#H#** and send to your camera's SIM card.

If successful，it will reply SMS:

A:Arm, D:Disarm, E:Edit (B: Burst, C: Camera Mode, D: Work Day, H: Work Hour, I: Interval, L: Lapse, M: Send Mode, P: PIR Trigger, S: Photo Size, V: Video Length, T: Time Set), F: Format, H: Help, L: Look over settings, M:MMS, N:Number, P:Password, Receive e-mail, S: Server e-mail, T: Take photo.

4.6.15 SMS command list

Below is a SMS command list for example.

No.	Function	SMS Command
1	Set administrator Number	#BG500#5555#13800138000#
2	Set Normal Users	#N#13800138001#13800138002#13800138003#
3	Set MMS Parameters	#M#http://mmsc.monternet.com#10.0.0.172#80#cmwap#**#**#
4	Set Email Parameters	#S#bmctest123@sina.com#bmc123#25#cmnet#smtp.sina.com#**#**#
5	Set Receiving	#N#12345678901#12345678902#12345

	phone address	678903#
6	Set Receiving Email Address	#R#Email1@163.com#Email2@163.com #Email3@163.com#
7	Get a spot Photo	#T#
8	Arm	#A#
9	Disarm	#D#
10	Check camera settings	#L#
11	Set Camera Parameters	#E #B1#Mp#d1110001#hOFF#t# (B:Burst,C:Camera Mode,D:Work Day,H:Work Hour,I:Interval,L:Lapse,M:Send Mode,P:Pir Trigger,S:Photo Size, V:Video Length,T:Time Set)
12	Format TF Card	#F#
13	Set Password	#P#5555#
14	Help	#H# A:Arm,D:Disarm,E:Edit(B:Burst,C:Camera Mode,D:Work Day,H:Work Hour,I:Interval,L:Lapse,M:Send Mode,P:Pir Trigger,S:Photo Size, V:Video Length,T:Time Set),F:Format,H:Help, L:Look over settings,M:MMS,N:Number,P:Password, R:Receive email,S:Server email,T:Take photo.

5 Declaration of Conformity

We declare on our sole responsibility that this equipment complies with the essential requirements of the Radio and Telecommunications Terminal Equipment Directive, 1999/5/EC, and that any applicable Essential Test Suite measurements have been performed.

CE versions of the BG500 which display the CE symbol on the product label, comply with the essential requirements of the European Radio and Telecommunication Terminal Directive 1999/5/CE.

1.CAUTION : RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

2.Adapter shall be installed near the equipment and shall be easily accessible.

3. In oder to meet RF exposure,the product should be used at least 20cm apart from user body.

Appendix Ⅰ: Technical Specifications

Image Sensor	5MP Color CMOS
Lens	F/NO=3.1mm FOV(Field of View)= 52°
Detection Range	BG500L: up to 22M BG500K: up to 12M
Illumination	BG500L: 850nm IR LEDs BG500K: 940nm IR LEDs
Display Screen	1.4” LCD
Memory Card	Up to 32GB TF card
Picture Resolution	5MP/1.3MP
Video Resolution	VGA
PIR Sensor	Multi-Zone
Trigger Time	0.3s（indoor mode）
Weight *	0.15 kg
Operation/Storage Tem.	-20 - +25℃ / -30 - +25℃
Interval	1s – 60 min.
Photo Burst	1–3
Power Supply	5V2A DC; Lithium battery(backup)
Stand-by Current	< 0.25 mA (<6mAh/Day)
Display Screen	LCD display
Dimensions	105x 65x 35 mm
Operation Humidity	5% - 90%
Security authentication	FCC, CE, RoHS

*without battery

Appendix Ⅱ: Parts List

Part Name	Quantity
Security camera	One
Remote control	Two
Power adapter	One
Lithium battery	One
USB cable	One
Universal mounting kit	One
Adhesive tape	One
User Manual	One
Warranty Card	One
433M Wireless sensor	(Option)

FCC Statment

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

FCC RF Radiation Exposure Statemen

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user’s authority to operate the equipment.