



3G Remote Camera (WCDMA W-C)

■Thank you for purchasing the 3G Remote Camera. The user manual illustrates how to operate this product. So please read the user manual carefully before using it. With this high-tech wireless equipment, you can detect anywhere at anytime by dialing video calls with 3G mobile phone. The 3G remote camera can be widely used in house, school, shop, moving cars, trains or take care of elders and children as long as WCDMA network is available. Modern design 3G remote camera matches excellent 300,000 pixel camera with night vision function. With the built-in infrared LED, the camera can shoot clear film even in darkness.

The Remote camera is compatible with normal 315 MHz or 433 MHz wireless sensor in the market, such as wireless infrared motion detector, door sensor, smoke detector etc, and all of them are wireless, easy to use. You can also select any kind of sensor mentioned to work with our product. You or your family or your guards can receive the alarm message when any sensor was triggered.

All services and functions needs to be supported by the network and USIM card. Detailed operation and product function, please refer to this brochure.

MENU

FEATURES	3
PREPARATIONS	3
BASIC USE	5
Setup the camera	5
Modify remote controllers and wireless security sensors ..	5
Alarm out	6
Alarm in	6
Add/Delete/Check users	6
Remote video surveillance	7
Voice Call	7
ADVANCED OPERATIONS	8
Modify Password	8
Video record	8
Getting a live picture by MMS	8
Set MMS parameter	9
Check status	9
Night vision	10
Set time	10
Picture rotation	10
Get help	10
File storage	10
Format SD	11
Reset the camera	11
ALARM	11
Set alarm receivers	12
Delete alarm receivers	12
Arm/Disarm	12
Motion Detection	13
Set sensitivity level of C.M.D.	13
Edit alarm message	13
PARAMETER	14
SMS order list	15

FEATURES

- This product uses USIM card, supporting WCDMA 3G network.
- Real-time video and audio surveillance: by your 3G phone, you can see area anytime and anywhere through 3G video call.
- 300,000 pixels CMOS Lens with infrared LED, support night vision.
- You can send SMS to control the camera remotely.
- Max 5 users and 2 alarm receivers supported
- PIR Motion detection(Optional): by infrared motion sensor, it can detect environmental change and alarm
- Camera motion detection
- Alarm message: it can send alarm messages to phones by SMS
- RF Sensor: Max 10 wireless RF alarm sensors can be added.
- Picture , video call can be saved in SD card
- Wireless remote control(Optional): it can arm, disarm or send emergency alarm signal
- Easy installation: Wireless connection. The product can be installed at any place you wanted.
- Built-in Lithium battery: Rechargeable battery ensuring operation in case of external power failure
- Application: taking care of the elders and children, in house, school, monitoring shop, bus, ship, and train etc.

PREPARATIONS

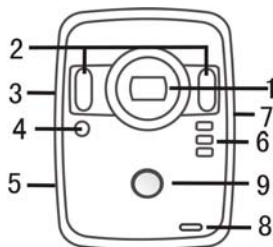
- 1、 You need to prepare a WCDMA USIM card for the camera which has 3G video call, voice call, SMS, income number displaying functions
- 2、 No PIN, pass code, etc for the USIM.
- 3、 A WCDMA phone with video call function.

- 4、 Please remember the user's passwords of the camera. And do not tell others.

Parts explanations

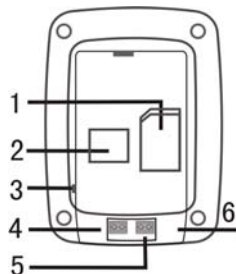
Front parts:

- Digital lens (1)
- Infrared lights (2)
- Light sensor (4)
- Power adapter socket (5)
- Indicators (6)
- Speaker (7)
- Microphone (8)
- Infrared motion sensor(optional) (9)



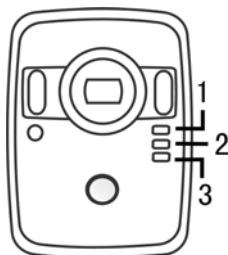
Back parts:

- SIM card holder (1)
- T-flash card holder (2)
- Reset button (3)
- Alarm in slot (4)
- Alarm out slot (5)
- Setup indicator (optional) (6)



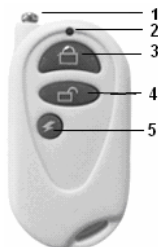
LED indicators Status Instruction :

	Action	Status
LED1	Continuously on	Power is OK
	Flash	Battery low
LED2	Continuously off	WCDMA network is OK
	Flash	Only GSM network
	Continuously on	No any network
LED3	Continuously on	Armed
	Continuously off	Disarmed



Remote control Instructions (W-1B)

1. Antenna
2. Indicator light
3. Arming key
4. Disarming key
5. Emergency key



Installation

- 1、 Insert USIM card and memory card if you need
- 2、 Insert Battery
- 3、 Connect USB AC adaptor

BASIC USE

Setup the camera

The camera can setup and search the network automatically after you insert USIM card and battery.

Normally, the camera will login the network within several seconds. You can judge from the LED indicator.

Caution: The camera can not work without battery.

Modify remote controllers and wireless security sensors

At most 10 wireless surveillance sensors connection. When they alarm, the master's phone will receive message.

Wireless alert devices: 433 MHz

Indoor use only.

How to modify RF remote controllers and wireless surveillance sensors with the camera

Add

Send message:

Password#RF#study#

When the camera receives the SMS, the learning LED will flash one time which means the camera is in Learning Status. Press any key of the controller or make the sensor alarm, if the learning LED flashes again, that means the learning is successfully.

Delete

Send message:

Password#RF#delete#

When the camera receives the SMS, learning LED flashes 8 seconds means the deletion is successfully. And all remote controllers or wireless surveillance sensors are deleted and you need set then again

Distinguish different wireless surveillance sensors.

The camera max can add 10 wireless surveillance sensors. If you want to distinguish them, please following the steps below:

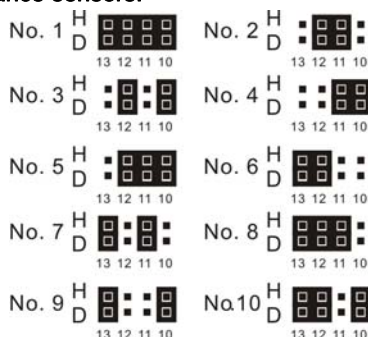
Step1: You can find slots on most wireless security devices

Step2: Choose different combinations of the slots, you will get different alarm SMS, such as

Left Picture

For example, if you choose No.1 for a wireless security device, when it alarms, you will receive alarm SMS like this: The No.1 wireless security device alarm!

Tips: Some wireless security devices maybe have different definition of slots , so the alarm SMS maybe not the exact one you want.



Alarm out

You can connect alarming horn (Max 4V/100mA) with the camera with “alarm out” slot. When the security device is alarm, the alarming horn will active 60 seconds

Connect positive and negative with host and alarming horn.

Alarm in

You can connect wired alarm sensor’s signal out points with the “alarm in slot”.

Add/Delete/Check users

You can add at most 5 numbers as “user phone”.

“User phone” can call the camera by video call or audio call for surveillance.

“User phone” can also send some SMS orders

Add user:

password#user#user1#user2#user3#

Example: 123456#user#13500000001#13500000002#13500000003# , then 13500000001,13500000002 and 13500000003 will be users, and other phones can not call the camera.

Tips: Default user password is 123456

Notice:

- *If there is no user, any phone can call the camera and be connected.*
- *The users are those which are in the latest SMS order.*

Delete all users:

Send message: **password#user#0#**

Check users:

Send message: **password#user#?#**

The camera will send back a SMS with user list

3G phone video surveillance

User phone can see live video remotely by your 3G WCDMA mobile phone.

Steps:

- 1) Set your 3G phone number as user
- 2) Call the camera by "video call" of your 3G phone
- 3) If the call is connected, you will see the live video of monitoring area.

Notice: *If your 3G phone number is not user, your call will be stopped*
If there is no user, any phone can call the camera and be connected. So please set at least one user for the camera before use.

You can also set image focus and volume during video call.

The operation definition of the correspondent key of your phone in video call as followed:

"1" Zoom in "3" Zoom out "5" Picture rotation
"#" volume up "*" volume down
"9" Alarm out "On" "7" Alarm out "Off"

If there is SD card in the camera, the surveillance video files will be saved in SD card.

Voice Call

You can hear the sound of monitoring area by phone voice call.

- 1) Set your phone number as user
- 2) Call the camera by "voice call" of your phone
- 3) If the call is connected, you will hear the sound and speak.

- 4) During the call, press “#” for volume up and “*” for volume down
“9” Alarm out “On” “7” Alarm out “Off”

Notice: *If your 3G phone number is not user, your call will be stopped
If there is no user, any phone can call the camera and be connected. So
please set at least one user for the camera before use.*

ADVANCED OPERATIONS

Modify Password

Modify the Password of the camera after initiation to ensure operation safety.

Send message:

Old password#password#new password#

Example: 123456#password# 456789#

Tips: *The default User Password is 123456.*

The password must be a 6-digit number

Video record

After receiving SMS command of recording video, the camera begins to record video of 60 seconds and save it in SD memory card if there is.

Send message:

Password#video#

Tips: If there is no SD card, the record will be failed.

Getting a live picture by MMS

If you want the camera to take a picture and send it to your phone by MMS, send the following SMS to the camera.

Caution : MMS service perhaps can not work correctly in some countries.

Send message:

Password#picture#

Tips: *If there is no SD card, the picture will not be saved.*

Before use, you need to set APN and MMS parameters (Get help from Page 8)

Set MMS parameter

You need to set MMS server and APN parameters for the camera if you want to get pictures by MMS.

Send these 2 messages for MMS sever parameters

Password#mmsurl#url address#

Password#mmsproxy#Proxy IP# Proxy port#

Send this messages for APN parameters

Password#APN#APN name#password#user name#

For example: ORANGE in United Kingdom

123456#mmsurl# mms.orange.co.uk/#

123456#mmsproxy#192.168.224.10#80#

123456#APN#orangemms#multimedia#orange#

- If there is no password but user name, send:

Password#APN#APN name#password#

- If there is neither password nor user name, send:

Password#APN#APN name#

Check status

If user wants to know the present setting and work status of camera, he/she just needs to send the following SMS to camera. It will reply a SMS including all settings (except the passwords.).

Send message: **Password#status#**

If your phone number is user, your can just send message:

Status#

The status message includes information (Example)

3G camera status :

15:35, 01/01/2010

3G:X

2G:X

Alarm on/off

Alarm receivers:XXXXXXX XXXXXXXX

SD: XXXXX KB

Battery: XX%

Motion: on/off

Night vision

Infrared light LEDs enable the camera to have a real time video or picture clearly in dark night. And the Camera can control the infrared light automatically.

Note : You need to connect power adapter for the camera.

Set time

You can set system time by SMS

Send message:

password#time#hh/mm/dd/mm/yyyy#

Example: 123456#time#09/36/25/08/2012#

Picture rotation

You can choose the picture and video rotate 180 degrees.

Send message:

password#camrotate#

Get help

If you forget the SMS commands, user can send SMS to get the command list.

Send message:

password#help#

If your phone number is user, your can just send message:

Help#

File storage

All video calls, MMS pictures, alarm pictures and short video records will be saved in micro SD card and named by time.

Picture: F:/picture

Video: F:/video

Video call: F:/video call

Format SD

You can delete all files in SD card

Send message:

Password#formatSD#

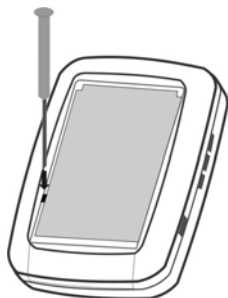
Reset the camera

If the remote camera setting is wrong, or forget the password, the following methods will enable the remote camera recover to original settings and back to regular working status.

Method 1 : Send SMS command to the camera.

Send message:

Password#reset#



Method 2: Press the “Reset button” for 5 seconds when the camera is working.

ALARM

If the camera is armed, the camera will in “Defense Mode”. If the camera receives alarm signals from connected alarm sensors or “motion detection”, the camera will send alarm SMS to all pre-defined alarm receivers and **upload a picture to FTP server you had set or send a MMS picture to the first user**. And the alarming horn will active 60 seconds if it was connected with “Alarm Out” slot. Also the cam will take 60 seconds

video in SD card.

Notice: The alarm function will pause 120 seconds after alarm once.

Wire alarm in, emergency keypad and No.10 wireless alarm in can work on “Disarm” mode.

Set alarm receivers

Firstly , user need to pre-define at most 2 phone numbers to receive alarm SMS.

Send message:

Password#alarmnumber#XXXX#XXXXX#

Example: 123456#alarmnumber#13500000005#13500000006#

13500000005 and 13500000006 will receive alarm messages.

Notice:

- The “alarm receivers” can be not same with “user number”, you can also set local police SMS center as alarm receiver.
- The receivers are those which are in the latest SMS order.
- Please make sure that the receivers can receive SMS.
- If you only need 1 receiver, send **Password#alarmnumber#Receiver1#**

Delete alarm receivers

Send message:

Password#alarmnumber#0#

Arm/Disarm

To arm(Defense mode):

Method 1: send following SMS to camera.

Password#alarm#on#

Method 2: Press the “Arming” key on the remote control directly and you can see LED 3 indicating successful operation.

To disarm(Cancel defense mode):

Method 1: send following SMS to camera.

Password#alarm#off#

Method 2: Press the “Disarming” key on the remote control directly and you can see LED 3 indicating successful operation.

Notice:

In disarm mode, emergency pad on RF controller is also effective.

Motion Detection

There are two kinds of Motion detection features: camera Motion detection and infrared Motion detection (Optional)

Camera motion detection

When the camera is in armed mode, if the camera finds image changing in view range, it will alarm.

Caution: *Only effective in camera's view range*

Do not block the camera lens.

Environment luminance changes suddenly will trigger an alarm too,

Poor light environment will cause poor sensitivity.

Infrared motion detection (Optional)

When the infrared motion sensor (Optional) finds body movement by infrared ray, it will alarm.

Caution: *Only effective for the infrared motion sensor view range*

Do not block the infrared motion sensor.

Environment temperature will affect the sensitivity

You can select if the **motion detection feature is on or off** when armed.

Send message:

Password#motion#on# or **Password#motion#off#**

Default status: on

Set sensitivity level of C.M.D.

You can set sensitivity level of camera motion detection(C.M.D.)

Send message: **Password#CMDlevel#1-6#**

Example: 123456#CMDlevel#5#

Sensitivity : 1 to 6 → low to high

Default: 4

Edit alarm message

You can edit content of alarm message.

Send message:

Password#alarmSMS#XXXXXXXXXX#

Example:

123456#alarm SMS# help! Room 205, Great building, 21st Street.#

If you want to delete alarm message, send:

Password#alarmSMS#

Notice:

New message will replace the old one.

The letters of alarm message must be less than 128.

PARAMETER

Network:

W-C1 HSDPA/UMTS 850/1900 MHz
GPRS/GSM 850/900/1900 MHz

W-C2 HSDPA/UMTS 900/2100 MHz
GPRS/GSM 850/900/1800 MHz

Transfer rate : down and up link data rate up to 384 kbps

Camera : 300,000 Pixels CMOS

Video call standard : 3GPP QCIF 176×144

Infrared LED : 6 LEDs

Mirco SD (TF) support : 8GB Max

RF controller and sensor (optional) : 433MHz

Adapter : OUT 4.5-5V 1A

Li-ion : 1000mAh

Size : 98mm×72mm×28mm

Net weight (with battery) : 135g

SMS order list

Caution:

- The messages can only include English letters, numbers, blank and symbols!
- No blank before password or first letter!
- The message must be ended by #

Function	Content
Change password	password#password#new password#
Define users	password#user#XXXX#XXXX#XXXX#
Check users	password#User# ? #
Delete users	password#User#0#
Arm/disarm	password#alarm#on/off#
Motion on/off	password#motion#on/off#
RF study	password#RF#study#
RF delete	password#RF#delete#
Define alarm receiver	password#alarmnumber#XXXX#XXXX#
Edit alarm message	password#alarmSMS#XXXXX#
Sensitivity level for C.M.D.	password#CMDlevel#X#
Set time	password#time#hh/mm/dd/mm/yyyy#
Record	password#video#
Get help	help# or password#help#
Get picture	picture# or password#picture#
Check status	status# or password#statue#
Picture rotation	password#camrotate#
Format SD	password#formatSD#
Set MMS URL	password#mmsurl#url address#
Set MMS proxy	password#mmsproxy#ProxyIP#Proxyport#
Set APN	password#APN#APNname#password#username#
Reset	password#reset#