

A decorative graphic on the right side of the page featuring three blue circles of different sizes. Each circle is composed of concentric rings of varying shades of blue. Two thin blue lines originate from the top left and extend diagonally across the page, passing behind the circles.

3G CAMERA USER MANUAL

—— 3G Real Time Professional Mobile Surveillance System

Please Read before Use

2011-6-1

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1 IMPORTANT INFORMATION

1.1 SAFETY INSTRUCTIONS

Please use the equipment according to the following instructions, in order to reduce the risk of fire or electric shock which do harm to people or damage the equipment.

- Use the Power adapter prepared in equipment package only.
- Use the power source with correct voltage, frequency and current that marked in the power adapter.
- Keep away from heat source; Avoid exposure to direct sunlight.
- Keep the equipment dry; Keep away from water or high humidity.
- Keep the equipment completely installed and properly placed.

2 PRODUCT INTRODUCTION

2.1 BRIEF INTRODUCTION

- 3G-Camera System is the professional real time surveillance system which integrates the latest 3G technology with traditional security technology and uses high-efficiency H264 hardware encoder and the industry leading H263 software encoder. It can simultaneously output video streams in both formats. It concurrently supports both 3G video call and IP video surveillance.
- Motion detection function of the system could efficiently avoid housebreaking. Apart from security, 3G-CAMERA can ensure privacy with call-in phone number filtering, login password checking and 3G network infrastructure security.

- This solution seamlessly integrates the traditional security IP camera with 3G mobile phone network and IP network by using the safe and stable embedded Linux control system, as well as the embedded 3G-Modem and the high efficiency 3G protocol stack,.
- The world's first hardware solution that supports TD-SCDMA, WCDMA and EVDO networks and provides multiple choices for users.

2.2 CHARACTERISTIC

- Real-time video surveillance through 3G video call; Easy to use; Clear and smooth picture quality
- Support multiple camera connection; Allow switching between up to 6 cameras
- Wide coverage surveillance PTZ camera; Horizontal angle: 270° and Vertical angle: 90° .
- 4-Level zoom control; Enlarge portion of image with D1 quality which has fine details.
- Motion detection alarm function. Allow surveillance at anytime with 3G mobile phone callback feature.
- Remote video recording and motion detection triggered video recording; Support video recording history browsing using 3G phone at anytime
- Video surveillance through mobile Internet; Fully support three main mobile device types : Android, iPhone and Windows Mobile
- Enterprise-level windows platform video surveillance software; Monitor and manage multiple cameras
- Safe Privacy protection; Protected by both password authentication and phone number filtering
- Able to connect with sensors which monitor various information such as temperature, gas, access control and infrared; Fulfill different requirements of users

- Multiple ways of alarming: inform users through video calls, sms and auto alarm center etc. In poor 3G network situation, auto-alarm through normal voice call

3 PACKAGE LIST

3G Camera, power adapter, SD card (comes with the camera), 3G-Modem (comes with the camera), products box, user manual, guarantee card

Alarm equipment: there would be the relevant alarm equipment for wireless alarm supported camera

4 EQUIPMENT INSTALLATION

4.1 3G CAMERA INSTALLATION

- 1 、 Insert 3G SIM card into SIM card slot.
- 2、 Insert SD card which comes with camera into SD card slot(p.s. For the cameras that use built-in SD card, users do not need to manually remove or inset SD card. Users could manage and download video record files through mobile phone or web site.
- 3、 Connect the lan cable between the camera lan port and modem lan port. (skip this step when WIFI is used)
- 4、 Insert audio input and output device into relevant input and output port(if audio i/o device is needed)
- 5、 Connect power adaptor to power port. Wait until the rotation self checking is completed.
- 6、 If factory reset is needed, user could use tweezer to keep pressing the reset key for 10s. Camera could be used normally after rotation self checking is completed. After reset, the IP is 192.168.1.139 and gateway is 192.168.1.1. After reset, user could setup other functions through web browser.

4.2 SECURITY SETTINGS

- Password for mobile phone surveillance by default is 1234. It could be changed through 3G mobile phone video call interface (see chapter six for details). Please properly keep the password in case of leaking or forgetting.
- User name by default for WEB visiting or terminal software is admin, and password by default is admin. User name and password could be changed through WEB site. Please properly keep this information in case of leaking or forgetting.
- If surveillance information involves sensitive information, regular changes of password are suggested. If password lost carelessly, it could be recovered through factory reset.

4.3 SYSTEM STARTUP AND ERROR HANDLING

- 1、After equipment is powered up, hardware self-checking begins. Camera rotates up, down, left and right, and finally stays in the middle or preset position. (Some types of cameras do not support preset position) This stage lasts for 25s. **The red light flashes quickly and blue light is off in the stage**
- 2、If hardware is in regular condition, system would enter the advance function startup stage which would lasts for 30s. The red light and blue light are off. If the network setting is correct, the audio and video can be checked through Web or terminal software. If wifi is used, it would take some extra time for the wifi network searching.
- 3、After the advance function startup stage is completed, the blue light and red light would flash slowly. The camera support 3G video call by default. 3G video phone call could be used to connect camera at this stage. If alarm setting is set, camera could actively make alarm phone call.
- 4、**Blue light is off** means WIFI connection is fail. It may be due to one of the following reasons: WIFI is not started, wrong WIFI setting (such as wrong ESSID or cryptography), damage of WIFI module, or other camera problems. **Red light is off** means 3G video call initialization or 3G network connection is fail. It may be due to one of the following reasons: SIM card is not inserted, SIM card overdue, no 3G network, 3G function is not started or wrong 3G setting, damage of WIFI module, or other camera problems.
- 5、If red light flashes quickly, it means malfunctioning of system hardware. It may be due one of the following reasons: using non-standard SD card, SD card is not inserted, damage of SD card, SD card storage full, some parts of camera are in bad contact. User should primarily check the camera or contact product technicians for help.

- 6、Red light and blue light would flash quickly at the same time when user upgrade camera through Web site. (see 5.5.2 for reference)

4.4 FUNCTION CONFIGURATION

1. : 3G video phone surveillance function configuration:
 - Setting 3G modem configuration: application mode: Video Call Only, PPPOE Only or Video Call first; setting relevant device according to built-in modem type.(see 5.4.4 3G modem settings for reference)
 - Setting alarm configuration: enable relevant alarm options, setting relevant callback phone number or sms number(see 5.4.3 for reference)
2. Alarm function configuration:
 - Setting 3G modem configuration: application mode: Video Call Only, PPPOE Only or Video Call first; setting relevant device according to built-in modem type.(see 5.4.4 3G modem settings for reference)
 - Setting alarm configuration: enable relevant alarm options: external alarm equipments (infrared, door contact, gas sensor, breathing sensor, correlation); motion detection, setting relevant callback phone number; sms number; auto-video-record (If enabled, it would auto-record real time video on H263 and H264. SD card is required); alarming center(If enabled, alarm video would upload to alarming center; if camera is installed in some place without network or WIFI, the application mode in 3G modem configuration should be set to "PPPOE Only". **Attention: this function would bring out Internet traffic cost, please contact the local operator for cost details.** (see 5.4.3; 5.3.4 for reference)
3. Web management function configuration: Ethernet configuration, 3G network configuration, video configuration, audio configuration, PTZ configuration, motion detection setting, alarm setting, system time setting etc, could be modified.(see chapter 5 3G camera web using direction for reference)
4. Mobile phone surveillance function: username, password. (Please see chapter 6 3G Surveillance Operation Instructions for reference).

5 3G CAMERA WEB USING DIRECTION

5.1 USER LOG IN

1. input IP address on IE: 192.168.1.139 (factory default, modifiable)
2. Input user name: admin (factory default, modifiable)

3. Input password: admin (factory default, modifiable)
4. click confirm button to log in (user could tick remember my password according to habit and applications), see following picture for reference



5. After log in, system by default displays system Status page ("Status"---->"System" page)

Status

- System
- Network
- 3G
- Service

System Status

You can view the system status here

System Information	
Device ID:	1109290034
Company ID:	FNC
Device SN:	CN22110929660034
Version:	V200R01B11
Compile Time:	2011-10-17
System Time:	Fri Oct 21 16:34:03 2011

Here is the system information.

Storage Device	
Inner Storage:	978M available,1903M total

Here is the storage information.

Alarm Status Information	
Alarm Status:	Disalarm

Here is the alarm information.

5.2 LANGUAGES

User could click Chinese or English in the top right corner at any page and enter to the relevant language mode. See the following picture for reference:

中文

Status	Setting	Admin	Camera	Record
--------	---------	-------	--------	--------

Status

System

Network

3G

Service

System Status

You can view the system status here

System Information	
Device ID:	1109290034
Company ID:	FNC
Device SN:	CN22110929660034
Version:	V200R01B11
Compile Time:	2011-10-17
System Time:	Fri Oct 21 16:35:59 2011

Here is the system information.

Storage Device	
Inner Storage:	978M available, 1903M total

Here is the storage information.

Alarm Status Information	
Alarm Status:	Disalarm

Here is the alarm information.

5.3 DEVICE STATUS

5.3.1 EXAMINING SYSTEM INFORMATION

On status->system page, user could check:

Relevant information: Device ID (one ID belongs to one piece of equipment), Company ID; Device SN (manufacturers' own designed clipper chip ID number; unknown would be shown if it is not encrypted); Version; compile time; system time.

Relevant Storage Device information: Inner storage; Outer USB storage (remaining space and capacity of SD card would be 0M if it is not inserted)

Alarming status information: alarming status (Fortified; disarmed; by-path; emergency)

As following:

Status

- System
- Network
- 3G
- Service

System Status

You can view the system status here

System Information		Here is the system information.
Device ID:	1109290034	
Company ID:	FNC	
Device SN:	CN22110929660034	
Version:	V200R01B11	
Compile Time:	2011-10-17	
System Time:	Fri Oct 21 16:34:03 2011	

Storage Device		Here is the storage information.
Inner Storage:	978M available,1903M total	

Alarm Status Infomation		Here is the alarm information.
Alarm Status:	Disalarm	

5.3.2 EXAMINING NETWORK INFORMATION

On status->Network page, user could check:

Ethernet information: DHCP service; IP address; Subnet mask; gateway; DNS server

Wireless LAN information: WIFI device; WIFI status; SSID; Signal Intensity(value); security type; DHCP service; IP address; Subnet mask; gateway; DNS server

3G Network information: 3G Dial-up; 3G IP; 3G DNS server; 3G flow.

Modem state information: WAN
device.

Status

System

Network

3G

Service

Network Status

You can view the network information here

Ethernet		Here is the ethernet information.
Dynamic IP Address:	Disable	
IP Address:	192.168.100.224	
Subnet Mask:	255.255.255.0	
Gateway:	192.168.100.1	
DNS Server:	202.96.134.133	
Wireless LAN		Here is the WiFi information.
WiFi Device:	Unavailable	
WiFi Status:	Disconnect	
SSID:	No AP Name	
Signal Intensity(Value):	Abnormal	
Security Type:	Unknow	
Dynamic IP Address:	Disable	
IP Address:	192.168.0.22	
Subnet Mask:	255.255.255.0	
Gateway:	192.168.0.1	
DNS Server:	202.96.134.133	
3G Network		Here is the 3G Network information.
3G Dial-up:	Disconnect	
3G IP:	0.0.0.0	
3G DNS Server	202.103.96.68	
The Connection Flow:	Send0KB,Receive0KB	
Route Status		Here is the route status information.
WAN Device:	eth(eth0)	

5.3.3 EXAMINING 3G INFORMATION

After inserting SIM card and configuration on status->3G page is set correctly, the 3G status information would be shown in status->3G page: Modem type; SIM status (If SIM card is inserted, it would be available, if not, it would be unavailable); 3G phone network status (status->video phone option on 3G modem page would show registered or unregistered);network type; phone signal strength (3G phone network registered, present signal strength would be shown as good, ordinary, bad); 3G network status(status->set 3G modem page network option, connected or disconnected would be shown); Base station information.

The screenshot shows the '3G status' page. On the left, a sidebar menu has 'Status' expanded, with 'System', 'Network', '3G', and 'Service' options. The '3G' option is selected. The main content area is titled '3G status' and contains the text 'You can view the 3G information here'. Below this is a table titled '3G Status' with the following data:

Modem Type:	WCDMA
SIM Status:	Disable
3G Phone Network Status:	Registered(3G)
Network Type:	
Signal Intensity(Value):	Abnormal
3G Network status:	Disconnect
Base Station:	LAC(0) CID(0)

To the right of the table, there is a note: 'Here is the 3G network information.'

5.3.4 EXAMINING SERVICE INFORMATION

On status->Service, user could check the relevant Internet service information and Individual hot spot, such as following:

Internet service information: Service status; connect status; server IP; Port; Related main device.

Individual hot spot information: service status; AP SSID; WAN; password; gateway; current connection

The screenshot shows the 'Service Status' page. The sidebar menu is the same as in the previous screenshot, but 'Service' is now selected. The main content area is titled 'Service Status' and contains the text 'You can view the service information here'. Below this is a table titled 'Internet Service' with the following data:

Service Status:	Enable
Connect Status:	Disconnect
Server IP:	59.37.56.157
Port:	8520
Related Main Device:	CN22110929730000

To the right of the table, there is a note: 'Here is the internet service information.'

Below the 'Internet Service' table is another table titled 'Camera Cluster Services' with the following data:

Cluster Mode:	Single Camera
---------------	---------------

To the right of this table, there is a note: 'Here is the camera cluster services information.'

5.4 SETTINGS

5.4.1 ETHERNET SETTING

User could change Ethernet setting on setting->Ethernet page. User could change Ethernet setting then click change. After the setting is changed, user could input the changed IP to enter web page. If there is only one camera attached to Ethernet, MAC address is no need to change, otherwise, it is suggested to change MAC address of relevant IP (such as IP:192.168.100.225, the last four MAC address could be changed into 02:25), in case of MAC address conflict. If user checked “enable DHCP” and press **change** button, then DHCP would be started. When DHCP has been enabled, user could check the camera IP through 3G camera managers and access the web page.

Network Information	
☐	Enable DHCP
IP Address:	192.168.100.224
Netmask:	255.255.255.0
Gateway:	192.168.100.1
MAC Address:	00:84:14:43:02:24
DNS Address:	202.96.134.133

[Change](#)

5.4.2 WIFI SETTING

User could change the WIFI configuration on Setting->WIFI page. User can refresh new active AP list by pressing **view wireless networks** button. User can input SSID, encipherment and secret key and click **change** to update the setting. User can check **Enable WIFI** to start WIFI and uncheck it to stop wifi. User can check **Enable DHCP** to start DHCP and uncheck it to stop DHCP. User can access the web page using the new IP after the setting is changed.

Setting

- Ethernet
- WiFi**
- 3G
- NTP
- Service
- Video Source
- Alarm
- Accessory

WiFi Setting

You can edit the wifi setting here

Basic Setting

Here is the basic setting.

Active AP List:

SSID:

Auth Mode:

Default KeyID(WEP ONLY):

Key:

Encrypt Type:

WiFi Setting

Here is the WiFi enable setting.

☐ Enable WiFi

WiFi Network Setting

Here is the WiFi network setting.

☐ Enable DHCP

Wireless IP:

Netmask:

Gateway:

DNS Address:

5.4.3 3G SETTING

User could change 3G modem parameters on Setting->3G page. 3G module would show its *modem type* if the 3G broadband network device exists; Relevant selection could be selected on *application mode* (video call only; dial-up only; priority to phone); Relevant selection could be selected on *network mode* (3G only; network only; priority for 3G); If application mode is dial-up only, dial-up internet configuration should be set. After changing configuration, press **change** and configuration would be take effect after 45s. Relevant information could be checked on status->3G page.

3G modem configuration:

China Unicom WCDMA configuration:

Supportable 3G application mode: video call; dial-up; priority for phone (priority for network when there is no phone)

China Mobile TD-SCDMA configuration:

Supportable 3G application mode: video call; dial-up; priority for phone (priority for network when there is no phone)

Setting

- Ethernet
- WIFI
- 3G**
- NTP
- Service
- Alarm
- Accessory

3G Modem Setting

You can edit the 3g setting here

3G Setting Here is the modem setting.

Modem Type: _____

Application Mode: Video Call only

Network Mode: 3G only

Dial-up Internet Here is the dial-up setting.

Network Type: China Unicom_WCDMA

Access Point(APN): 3gnet

Dial Num: *99#

Username: _____

Password: _____

Change

5.4.4 NTP SETTING

User could set camera time on the page of setting->NTP. User connect camera to PC, click **synchronize PC time**. The synchronized PC time would be seen in the top left corner of real time video. User could also check **Enable NTP**, set time zone and NTP server, and press **change** button. After configuration takes effect, relevant setting time would be seen on top left corner, video->real time video page(GMT+8 is Beijing Time).

Setting

- Ethernet
- WIFI
- 3G
- NTP**
- Service
- Video Source
- Alarm
- Accessory

NTP Setting

You can edit the ntp setting here

NTP Setting Here is the ntp setting.

☒ Enable NTP

Time Zone: GMT+8

NTP Server: time.nist.gov

Synchronize PC Time Change

5.4.5 SERVICE SETTING

User could set service parameter on Setting->Service page. Relevant information could be modified by editing Internet monitor service: *Enable service*, *server* (network remote monitoring server IP), *server port* (network remote monitoring server port), *related main device* (device name and ID), and *Internet Route*. Relevant information could be modified by editing Individual hot spot: *Enable service*, *SSID*, *WAN*, *password*, and *gateway*. User pressing **change** button and relevant configuration information could be seen on status->service page after configuration come into effect.

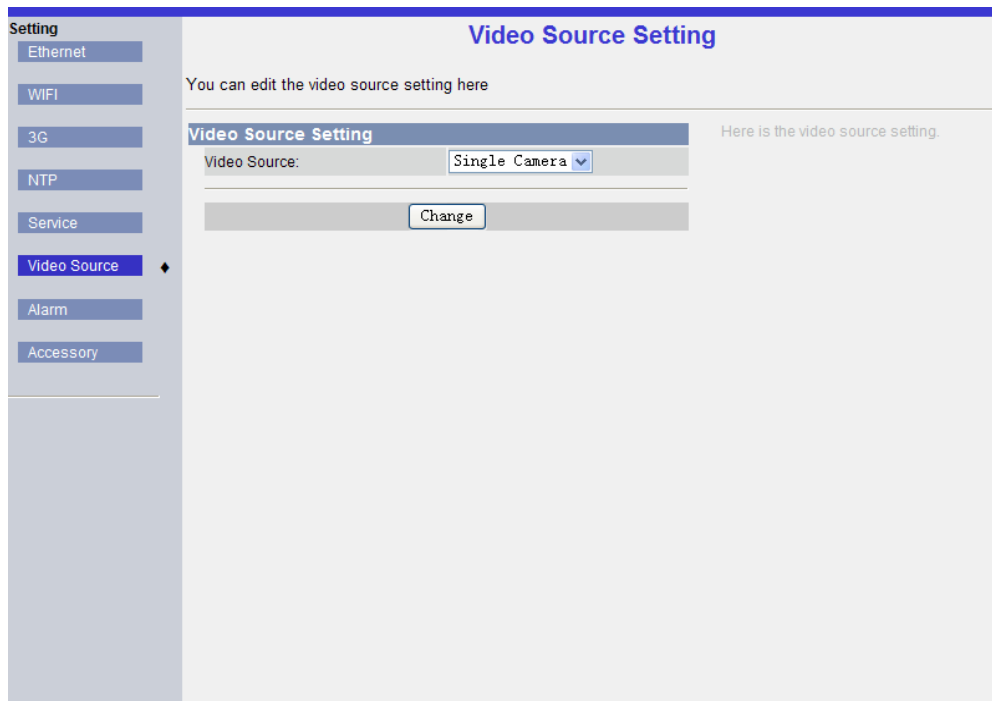
The screenshot displays the 'Service Setting' interface. On the left, a sidebar lists settings: Ethernet, WIFI, 3G, NTP, Service (selected), Video Source, Alarm, and Accessory. The main area is titled 'Service Setting' and contains the following configuration for the 'Internet Monitor Service':

Internet Monitor Service	
☒	Enable Service
Server:	59.37.56.157
Server Port:	8520
Device ID:	1109290000
Related Main Device:	CN22110929730000
Internet Route:	Ethernet

Below the table is a 'Change' button. To the right of the table, a note states: 'Here is the internet monitor service setting.'

5.4.6 VIDEO SOURCE SETTING

Users can edit relevant configuration of video source parameter on Setting->Video Source page. You can choose single camera mode or auto search mode. You can also add the camera which you want to monitor to your video source using manually add mode. Users can check the setting information on System->Service page.



5.4.7 ALARM SETTING

User could edit relevant configuration of alarming parameter on Setting->alarm setting page. Select enable *external alarm* option if external alarm is needed, select disable if not. Select enable *motion detect* option if motion detect alarm is needed. Select *motion detect* level (low sensitiveness, medium sensitiveness and higher sensitiveness). Enable *serial/Totcp Test* if is needed; Enable *Auto Record* option if is needed. Six numbers could be set as alarming callback number. The numbers would be tried one by one until the call is connected. Three numbers could be set as sms numbers, messages would be sent to these numbers one by one. After changing relevant configuration, press the **change** button. Configuration would take effect after 30s. If there is something changes in camera video image, motion detect would be started. Camera would begin auto recording, dialing relevant video phone and send alarming messages to relevant sms numbers (enabled motion detect, auto recording, callback numbers, sms numbers)

Setting

Ethernet

WiFi

3G

NTP

Service

Video Source

Alarm

Accessory

Alarm Setting

You can edit the alarm setting here

Alarm Source Setting

Here is the alarm source setting.

External Alarm: Enable

Motion Detect: Disable

Motion Detect Level: Low sensitiveness

Global Alarm Restrict: Disalarm

Sound Alarm

Here is the sound alarm setting.

Sound Alarm: Disable

Alarm strategy

Here is the alarm strategy setting.

Auto Record: Enable

Record Type: H.264 and H.263

Telephone and SMS Alarm

Here is the telephone and SMS alarm setting.

Alarm Firewall: Enable

Callback Number:

SMS Phone Number:

Change

5.4.8 WIFI ACCESSORY SETTINGS

User could check, add and delete alarming messages on Setting->Accessory page. After adding or deleting relevant alarming messages, please press **change** button. After 10s, the alarming messages would change accordingly. (**Attention:** Additional alarm devices are required for setting in this page. User can skip this page if additional alarm device is not supported by the camera)

Setting

Ethernet

WiFi

3G

NTP

Service

Video Source

Alarm

Accessory

Accessory Setting

You can edit the accessory setting here

System Level Filter

System Level Filter: No Global Restriction

External Alarm: Enabled

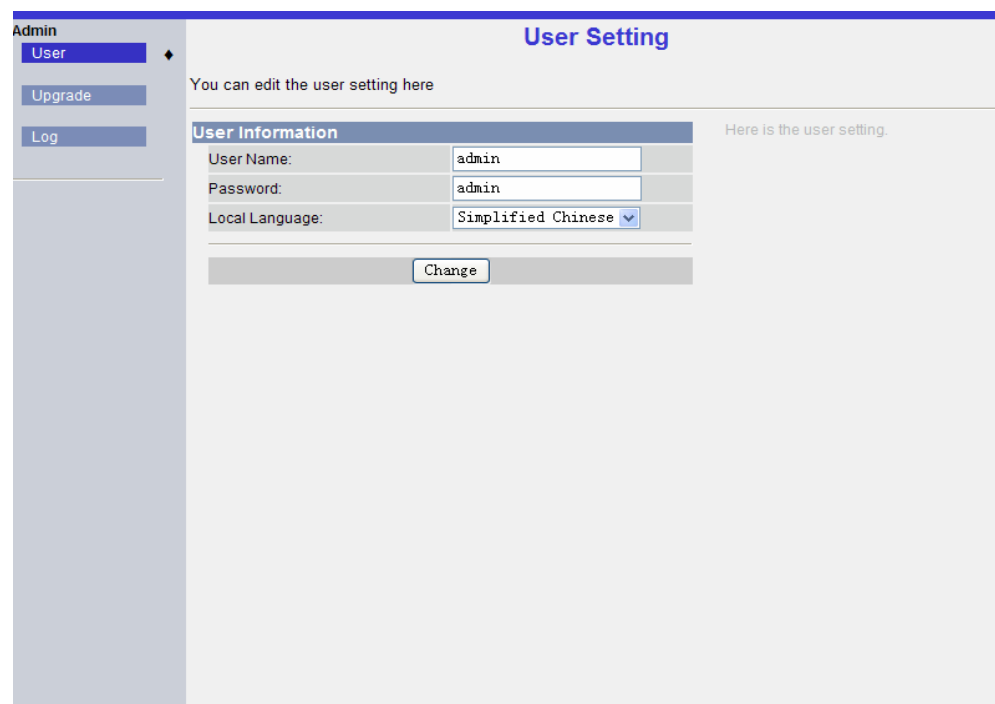
Alarm Information						
0	CFAA6F	Door Sensor	1	ENABLE	RECORD SMS TO_ALARMCENTER VIDEO_CALL LOCAL_ALARM_VOICE	(0,1) Delete
1	9B3614	Remote Control	2	ENABLE	TO_ALARMCENTER LOCAL_ALARM_VOICE	(1,2) Delete
2	9B3611	Hijack Alarm	3	ENABLE	RECORD SMS TO_ALARMCENTER VIDEO_CALL LOCAL_ALARM_VOICE	(2,3) Delete
3	9B3612	Glass Broken Sensor	4	ENABLE	RECORD SMS TO_ALARMCENTER VIDEO_CALL LOCAL_ALARM_VOICE	(3,4) Delete
4	9B3618	Remote Control	11	ENABLE	RECORD	(4,5) Delete
ID	New Wireless Accessories List	Association Name	Zone Level	Action	PTZ Horizontal Tracking	PTZ Vertical Tracking
New Record	000000	Remote Control	DISABLE	RECORD SMS TO_ALARMCENTER VIDEO_CALL LOCAL_ALARM_VOICE Camera_Tracking	0	0

Begin Learning
Refresh List
Stop Learning
Add New Setting

5.5 MANAGEMENT

5.5.1 USER PREFERENCES

User could modify relevant user information in Admin->user page. User could edit user name and password. After changing configuration, press **change** button, configuration would take effect. New user name, password would be needed when log in again



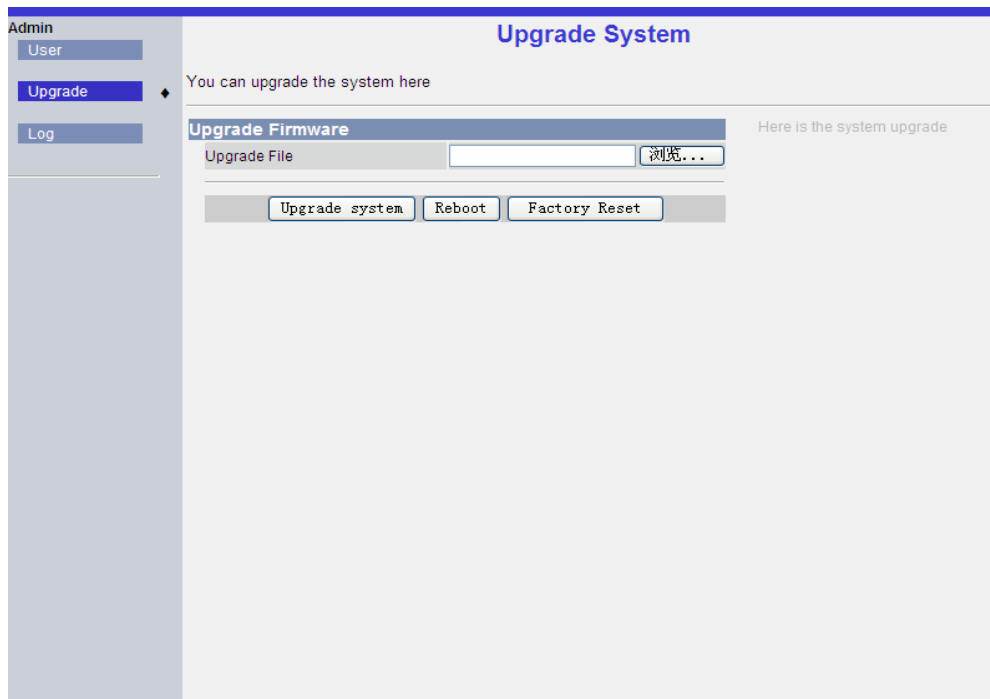
The screenshot shows the 'User Setting' page within an 'Admin' interface. On the left, there is a sidebar with buttons for 'User', 'Upgrade', and 'Log'. The 'User' button is selected. The main content area is titled 'User Setting' and contains the text 'You can edit the user setting here'. Below this, there is a 'User Information' section with three input fields: 'User Name' (containing 'admin'), 'Password' (containing 'admin'), and 'Local Language' (a dropdown menu set to 'Simplified Chinese'). A 'Change' button is located at the bottom of this section. To the right of the input fields, there is a note that says 'Here is the user setting.'

5.5.2 UPGRADE

User could upgrade system, reset equipment, and restore factory settings on admin -> upgrade page. Click browse, choose *upgrade file*, press **upgrade system** button, then system would be upgraded.

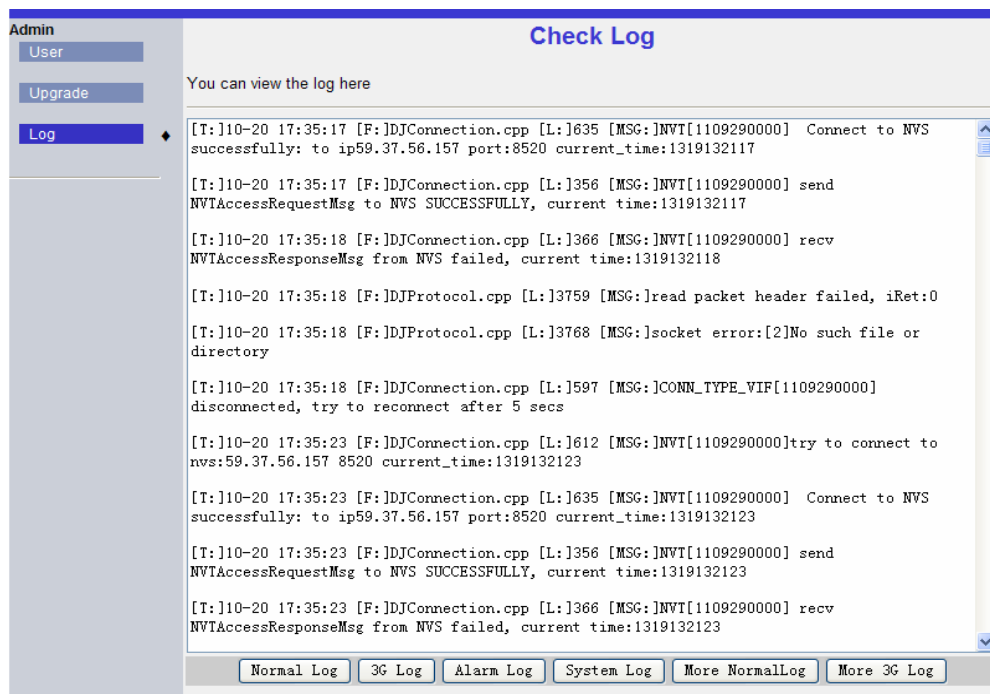
System upgrading may cost 5 to 10 minutes depends on network state. After upgrading is completed, system would warn that system upgrading finished, please manually restart camera, user should wait with patient during this time. During system upgrading and restoring factory settings, user should not cut off the electricity or unplug the network cable. Otherwise, system upgrade and factory restore will fail and it will even cause permanent hardware damage.

After system upgrade or factory restore, IP by default is 192.168.1.139; Subnet mask is 255.255.255.0; gateway is 192.168.1.1, MAC address is 00:84:14:43:00:00; user name is admin; password is admin; password for 3G video call is 1234 (If there is no special remark of parameter on product package or label, configuration would be the same as mentioned above)



5.5.3 LOG

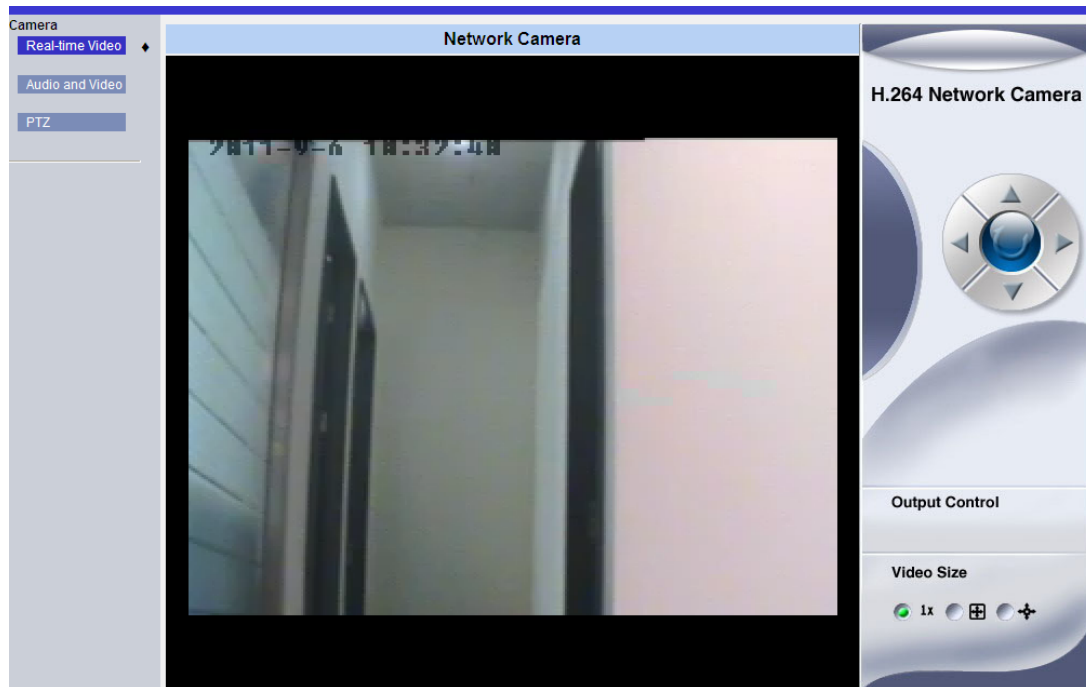
User could check log information on Admin->Log page. User could click different logs to check on different records of the system, such as normal log, 3G log and system log.



5.6 CAMERA

5.6.1 REAL-TIME VIDEO

On camera->real-time video, user could check on real-time video and time of NTP (settings->NTP page set synchronizing PC time to device). User can zoom in the video or switch to the full screen mode. If motion detection alarm is set, a warning sign will be shown in the left bottom corner when there is moving object detected by the camera.



5.6.2 AUDIO AND VIDEO SETTING

User could edit audio and video setting on Camera->audio and video setting. After insert audio input, output device and enable **audio play** and **audio capture**, speech input and output would take effect. Video setting could be viewed in real-time video. (After changing configuration, press **change** button, configuration would take effect after 10s)

Camera

- Real-time Video
- Audio and Video**
- PTZ

Audio and Video Setting

You can edit the audio and video setting here

Choose Lens

Lens type: CMOS OV7720

television standard: PAL

Audio Setting

Audio Play: Enable

Audio Capture: Enable

Audio Input: Microphone

Video Setting

Original Quality: Medium (Fit for Internet with high bandwidth)

Framerate: 8

Resolution: 320 x 240

Change

Here is the camera setting

Here is the audio setting

Here is the video setting

5.6.3 PTZ SETTING

User could edit setting on camera->PTZ : Change the PTZ lock setting to lock / unlock the PTZ; Change the Default PTZ location; Change PTZ rotate L/R and PTZ rotate U/D options to control the left/right/up/down positions;

Camera

- Real-time Video
- Audio and Video
- PTZ**

PTZ Setting

undefined

PTZ Setting

PTZ Lock Setting: Not Fixed

PTZ Rotate L/R: No

PTZ Rotate U/D: Yes

PTZ Rotate Speed: 3

Default Location

Change Current Location: No

Default PTZ Location: None

Change

Here is the ptz setting

Here is the PTZ Default Location setting.

5.7 VIDEO

5.7.1 VIDEO MANAGEMENT

On camera->video management page, user could check video information. User could download video files by clicking download link, delete video files by selecting video files and pressing batch delete for deleting the selected video files.

Record
Manage Record
Record Configur.

Record Management

You can view ,download or delete record files here

Select all	File name	File length	Update time	Download
☐	C1109290000_R_h264_1713.avi	102.33 K	2011/10/20 16:39:18	download
☐	C1109290000_R_h264_1712.avi	386.01 K	2011/10/20 14:18:48	download
☐	C1109290000_R_h264_1711.pgm	1.81 M	2011/10/20 12:5:54	download
☐	C1109290000_R_h264_1710.pgm	1.76 M	2011/10/20 12:5:14	download
☐	C1109290000_R_h264_1709.pgm	1.77 M	2011/10/20 11:57:48	download
☐	C1109290000_R_h264_1708.pgm	718.59 K	2011/10/20 11:47:26	download
☐	C1109290000_R_h264_1707.pgm	1.80 M	2011/10/20 11:46:56	download
☐	C1109290000_R_h264_1704.avi	13.01 M	2011/10/20 11:33:38	download
☐	C1109290000_R_h264_1706.avi	81.96 K	2011/10/20 11:30:34	download
☐	C1109290000_R_h264_1705.avi	811.17 K	2011/10/20 11:30:16	download

Batch delete

Altogether 1318 record files, 10 per page, 132pages in total.

[1](#)
[2](#)
[3](#)
[4](#)
[5](#)
[6](#)
[7](#)
[8](#)
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5.7.2 VIDEO CONFIGURATION

On camera->video configuration page, user could edit video configuration including video files storage location and enable or disable automatically overwrite when SD card memory is full. If user need to set camera time recording, user could selecting date and time and press **change** button, then recording would take effect at once. What's more, clicking **delete** could cancel time recording.

The screenshot shows a web interface for 'Record Configuration'. On the left is a sidebar with a 'Record' menu containing 'Manage Record' and 'Record Configure'. The main area has a title 'Record Configuration' and a subtitle 'You can edit the record configuration here'. Below this is a 'Record Configure' section with a 'Storage Location' dropdown set to 'Internal', an unchecked checkbox for 'Enable automatic overlay', and a 'Change' button. A note on the right says 'Here is the record configure setting'.

6 3G SURVEILLANCE OPERATION INSTRUCTIONS

6.1 3G MOBILE PHONE ACCESSING

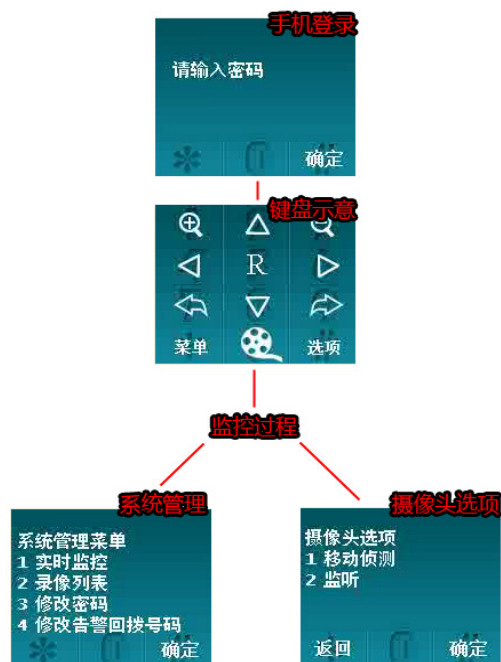
3G phone user could dial 3G camera phone number and enter user password for real-time video and audio surveillance.

Operational process

- 1、 Using 3G phone to dial modem number, modem would be automatically connected.
- 2、 User enter pass word according to the prompt and log in.(Number of allowable attempts is three; password input timeout is 60s, 3G camera would automatically hang up)
- 3、 After receiving surveillance video, user could control the camera according to the prompt on mobile phone

6.2 MOBILE PHONE SURVEILLANCE CONNECTING AND RELEASING

Mobile phone surveillance basic flow as following (For English please refer to Chinese menu):



1. Dialing **video call** with the phone number of the SIM card in the camera. **Attention:** voice call could not support video surveillance
2. Enter password according to video prompt (default to 1234)
3. Received video for video surveillance
4. Hang up phone call to end surveillance

6.2 KEYBOARD CONTROL

Keyboard Actions for controlling the camera during surveillance:

Button	Action	Note
1,3	Zoom control	1 for zoom in, 3 for zoom out
2,4,6,8	Rotation direction control	2 for move up, 4 for move down, 6 for move leftward, 8 for move right.
7,9	Camera switching	Press 7 or 9 could switch amongs different cameras for multi-angle surveillance
5	Cruising	360° spinning camera
*	System Menu	
#	Camera action menu	
0	Voice-operated control	Repeat pressing 0 for enable / disable voice surveillance / two-way voice communication

1、Press the buttons during surveillance:

2、4、6、8 or directional button to control moving top or button, right or left

5 Enable or disable cruising

1, 3 Zoom control: 1 for zoom in, 3 for zoom out

7、9 Switching camera: 7 for switching forward, 9 for switching backward

0 button is for Audio control, repeat pressing 0 could control: enable voice surveillance, enable two-way voice communication, and disable surveillance or two-way voice communication

2、* button System Menu

1 Surveillance

2 Record List

3 Change PIN

4 Change Callback

*button Return to Control

#button OK

Enter number button to control, ended by pressing #. Such as return to surveillance, enter 1#.

3、# button Camera Menu

1 Motion Detection ON/OFF View or edit camera motion detection

2 Eavesdropping ON/OFF View or edit camera voice detection (do not open)

* Button return to surveillance

#button OK

Enter number button to control, ended by pressing #. Such as View or edit camera motion detection, enter 1# then system would return to present camera motion detection, press # button to enable or disable motion detection, * button to return to camera menu.

6.3 CHANGING USER PASSWORD ON MOBILE PHONE

User could choose menu item through mobile phone button for changing password. The maximum length of password is 32 and only for numbers. Password by default is 1234.

1 Press [*] button to enter system menu.

- 2 Enter changing password menu according to system prompt.
- 3 Enter new password according to prompt, ended by pressing [#] (maximum for password length is 19 characters)
- 4 Enter password again according to prompt to confirm, ended by pressing [#]
- 5 Finish changing password.

6.4 INQUIRING AND CHANGE MOTION DETECTION STATUS ON MOBILE PHONE

User could choose menu item through mobile phone button for inquiring and change motion detection status.

Procedure:

- 1、Press [#] to enter setting menu
- 2、Press [1] [#] to enter Movement Detection setting. The current motion detection status (enable/disable) is displayed
- 3、Press [#] to change motion detection status.

6.5 INQUIRING AND CHANGING EAVESDROPPING STATUS ON MOBILE PHONE

User could choose menu item through mobile phone button for inquiring and modifying eavesdropping status.

- 1、Press [#] to enter setting menu
- 2、Press [2][#] to enter eavesdropping setting. The current eavesdropping status (Enable/Disable) is displayed
- 3、Press [#] to change eavesdropping status

6.6 CONTROLLING VIDEO RECORDING ON MOBILE PHONE

User press 0 on mobile phone to enable or disable the current camera video recording. Pressing [0] to begin recording, red frame is shown to indicate that camera is recording. Press [0] again to end recording, red frame is disappeared and video record file is created.

6.7 PLAYING SURVEILLANCE VIDEO RECORD ON MOBILE PHONE

User could play the surveillance video record through pressing mobile phone button and choosing menu item. User could switch amongs different surveillance video records.

Operations:

- 1、Press [*] button to enter system menu.

- 2、Press [2][#] button to access the video list and video information, including camera ID, recording time.
- 3、Press [7] button to display the previous video information, Press [9] button to display the next video information.
- 4、When video list is displayed, press [#] to play video. When video is playing, press 0 to pause, press 0 again to continue.
- 5、After video record is played, "Record play end" is prompted, press [*] button to return to the list, press [#] to play the next video record.

6.8 DELETING SURVEILLANCE VIDEO RECORD ON MOBILE PHONE

- 1 Press [*] to enter system function menu
- 2 Press [2][#] to display video record list and video record information, including camera ID, record time; surveillance video record would be arranged in reverse order.
- 3 Press [7] to display the previous video record information. Press [9] to display the next video record information.
- 4 When the video record list is displayed, press [0] to delete the current record. Press # to confirm delete video record.
- 5 When video record is played, press [0] to delete the record.

6.9 MOTION DETECTION ALARM PHONE CALLBACK

After triggering mobile alarm, surveillance camera in fortification state would make video call to the user-defined callback mobile phone number. The surveillance video will displayed on the phone as soon as the call is answered. If callback is fail, sms message would be sent to mobile phone. At the same time, video recording begins and the video record will be sent the the user-defined E-mail.

Procedure:

- 1 Trigger motion detection alarm of camera
- 2 3G camera make 3G mobile video call and begin video record
- 3 Mobile phone answer video call; After logging in, user could see the surveillance video of alarmed camera.
- 4 Hang up call to end surveillance, video file would be automatically stored when its filesize reaches the defined value.

6.10 SETTING AND CHANGING CALLBACK PHONE NUMBER ON MOBILE PHONE

User could press phone button and choose menu item for setting/changing the callback mobile phone number for motion detection alarm. (It will be fail if the incoming call number cannot be acquired for some networks)

- 1 Press [*] during video surveillance state to enter system function menu.
- 2 Select the setting / changing callback phone number menu item according to the prompt.
- 3 Input callback mobile phone number according to the prompt and Press [#] to end.
- 4 The prompt that indicated successfully changed is shown. It automatically returns to system function menu after 3s.

6.11 SETTING CURRENT PHONE NUMBER AS CALLBACK PHONE NUMBER

User could press phone button and choose menu item for setting the current phone number as the callback mobile phone number for motion detection alarm. (It will be fail if the incoming call number cannot be acquired for some networks):

- 1 Press [*] during video surveillance state to enter system function menu.
- 2 Set current mobile phone number as callback number according to the system menu prompt.
- 3 The prompt that indicated successfully changed is shown. It automatically returns to system function menu after 3s.

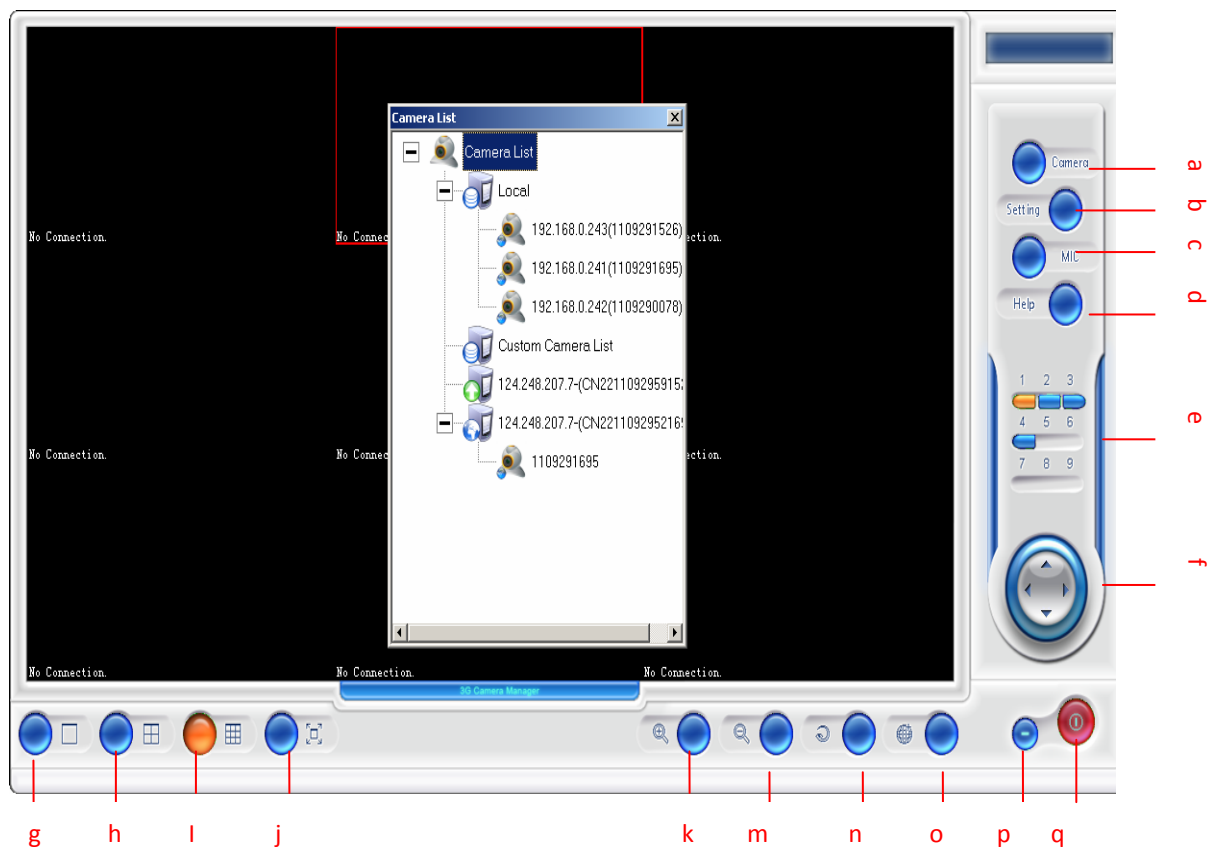
7 3G CAMERA MANAGER SOFTWARE INSTRUCTIONS

7.1 SOFTWARE INSTALLATION

1. Open product CD or download from specified website, then enter PC client-site software installation path
X:\WeFUN_WinXP\WeZoom_PC.msi
2. Run installation according to the prompt.
3. Can be used after the installation.

7.2 SOFTWARE FUNCTION INTRODUCTION

Double click program icon to start the software.

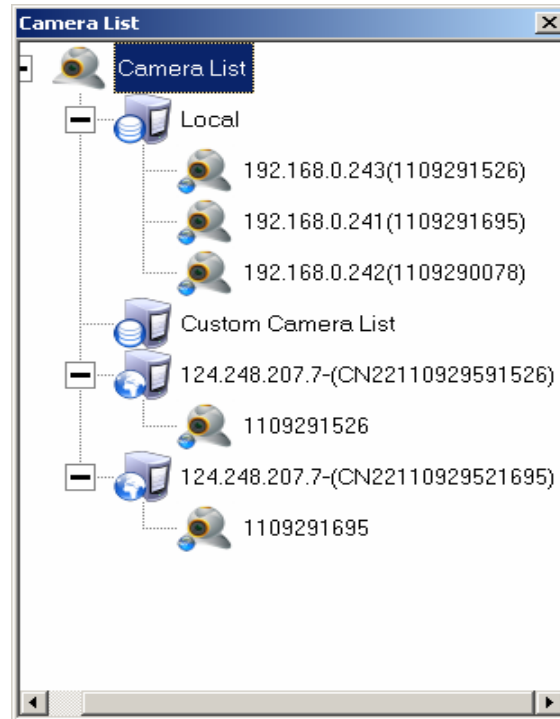


a: Camera; b: System setting; c: MIC; d: HELP; e: Show in window; f: PTZ control;
 g: Single screen; h: Four screens; i: nine screens; j: Full screen; k: Zoom in
 ; m: Zoom out; n: auto rotate; O: remote camera log in; p: minimizing; Q: exit

7.3 CAMERA LIST

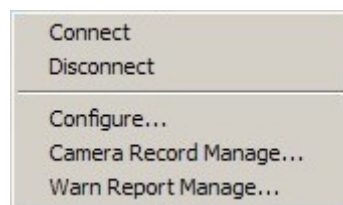
Click Camera button . Camera List dialog box (hot keys: Ctrl+C) is popped out. Camera list is displayed. Two kinds of camera: Local camera and remote camera.

1. Local camera: local camera shows under local node. After enable the software, system would detect available camera in local area network, then new camera would be shown under the local node in list form. Local camera could be connected without logging in.
2. Remote camera: Log in to the relevant NVS is required. The list of cameras connected to the server would be shown under relevant NVS.



3. Camera management: Right click camera and pop out shortcut menu (In pic7-1, click node 26, dialog box would be popped out):

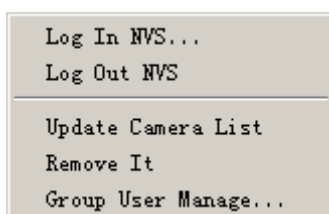
- a. click **Connect** to connect to camera and view on surveillance image;
- b. click **disconnect** to end surveillance;
- c. click **Configure...** to set camera parameters;
- d. click **Camera Record Manage...** to manage camera record files;
- e. click Warn Report Manage to check on alarming record.



4. NVS management: Right click NVS and pop put shortcut menu (In pic 7-1, click 124.248.207.7 –SN dialog box would be popped out) :

- a. If have not logged in NVS, click **Log In NVS...** to log in;
- b. If have logged in NVS, click **Log Out NVS...** to log out;

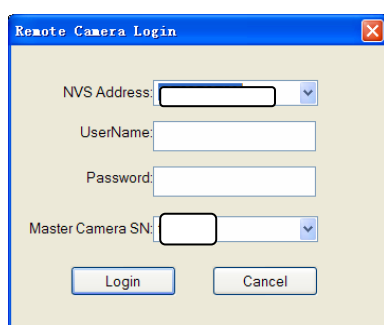
- c. click **Update Camera List** to update camera list;
- d. If have not logged in NVS, click **Remove It** to remove NVS node;
- e. After log in with administrator ID, click **Group User Manage...** to manage group users.



7.4 NVS SERVER LOGGING IN AND QUITTING

User is divided into ordinary user and administrator user. After logging in, administrator could manage group users: view group users' information, add users, change users' information and delete users.

- Remote camera logging in through NVS Server: Press , open Remote camera Login (Hot keys: Ctrl+L), input NVS Address, User Name, Password, Master Camera SN, click Login to log in (During Logging in, NVS Status Icons is ). If Logged in, add NVS node under camera list (NVS Status Icons is ) , camera list is shown under the node. When the user with the same name log in somewhere else, the current connection would be broken. As below: NVS Address is IP address of NVS server, UserName is divided into administrator and normal user. Initial users password of administrator is admin. Password could be set in web setting. Normal user's username and password is set by system of administrator.



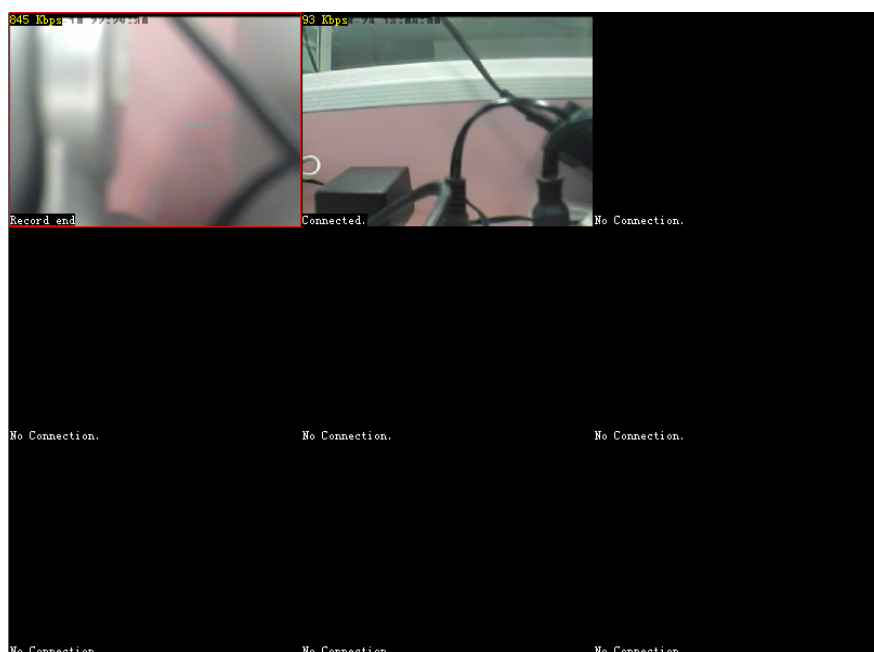
- Quitting: right click NVS, choose **Log out NVS**. Choose **Remove it** to delete NVS from the list. Click Camera button  or press hot-key Ctrl+C, Camera List would be popped out (pic 7-1). Right click NVS, follow the fourth step in 7.3 to quit.

7.5 SURVEILLANCE CONTROL

1. Connecting to camera: open camera list, choose the camera which needed to be connected, click the right mouse button, choose **Connect** or double click camera. During connecting, the camera Status Icons is .

After connected, surveillance video will be displayed in surveillance area and camera status icons is .

There is only one camera that can be controlled at the same time and its status icon is . Red border would be shown on controlled camera in surveillance area.



PTZ controlling: user could control the chosen camera on software interface  (hot keys: moving keys

on keyboard) and camera would move accordingly; ; press  could control Tour mirror(hot-key:

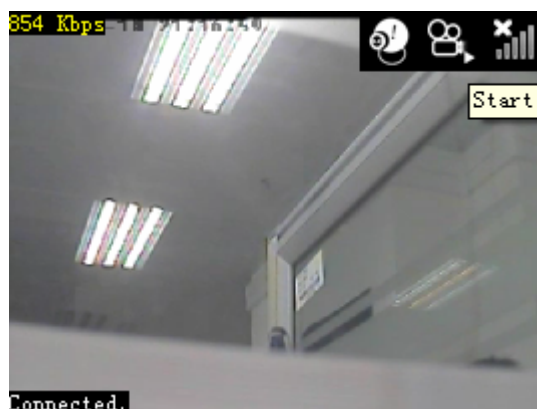
Ctrl+R), and camera would start to touring. Press  could zoom in (hot keys: Ctrl+ +);press



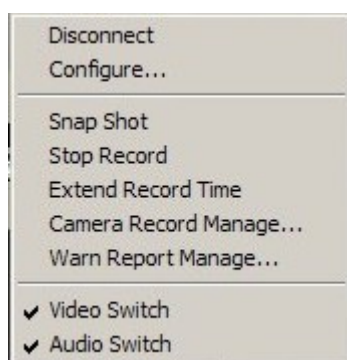
could zoom out (hot keys: Ctrl+ -);

2. Video bitrate: Video bitrate would be shown on top left corner of the window, units: Kbps.

3. Toolbar: during surveillance, move mouse cursor to the top right corner of the window and toolbar will be shown. 3G camera module signal, snapshot and record could be displayed and controlled on the toolbar.



或在视频窗口点击右键，弹出以下对话框 Right click on video window, dialog would be popped out:



7-2

3.1 Snapshot: click  and save current image snapshot. Or click Snap Shot in pic7-2. Save path of the snapshot could be modified in system setting.

3.2 Record: click  (or click start record in pic7-2) to start record and toolbar icons would be  (Stop recording icon). Click stop recording icon to stop recording(or click Stop Record in pic7-2). Remaining recording time would be shown on the left bottom corner of the surveillance window (pic7-2). Right click on surveillance area during recording and choose Extend Record Time (pic7-2) can extend the recording time for one more record period(20S for one period).



a) 3G signal strength: If 3G module is installed in camera, 3G signal strength of 3G module would be shown, strength is divided into 5 grades:  bad,  lower,  normal,  good,  abnormal.

3. Status bar: Current camera status and event hints would be shown on the right button status bar of the window.

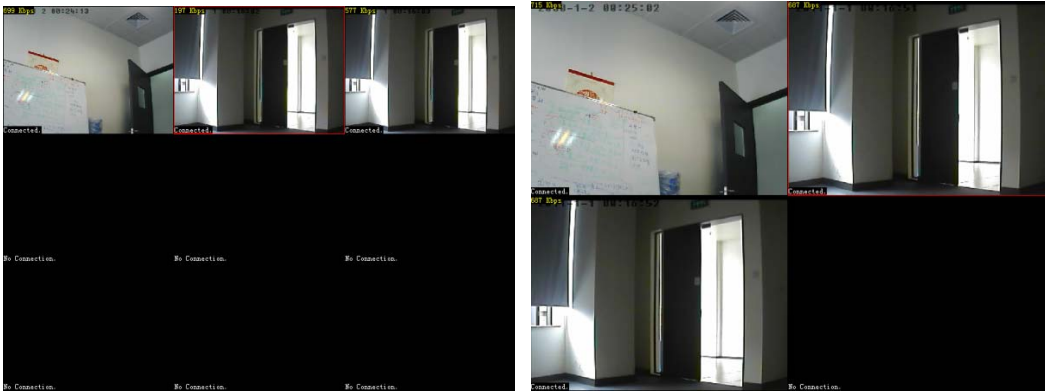
Status / Events	Status Bar
无连接	No Connection.
正在连接	Try Connecting...
连接中断	Camera (ID)'s connection was broken.
发起录像请求	Request recording
发起录像失败	Request recording failed
手动终止录像	Recording stopped
录像结束	Recording end
正在录像（显示剩余时间）	Recording... remain time: 20 s

4. Video and Audio Switch: During surveillance, right click surveillance area (In pic7-2) and choose Video Switch (Audio Switch) to enable or disable video or audio transmission.

5. Audio: click MIC button  on the right of the software. Button turn to  then the local microphone would be enabled and could begin audio communication.

6. Surveillance image: This software supports the maximum of 36 video surveillance connections concurrently.

Surveillance image could be chosen as: nine screens  ; four screens  错误！未找到引用源。 ; single screen  ;full screen  .



nine screens

four screens



single screen



full screen



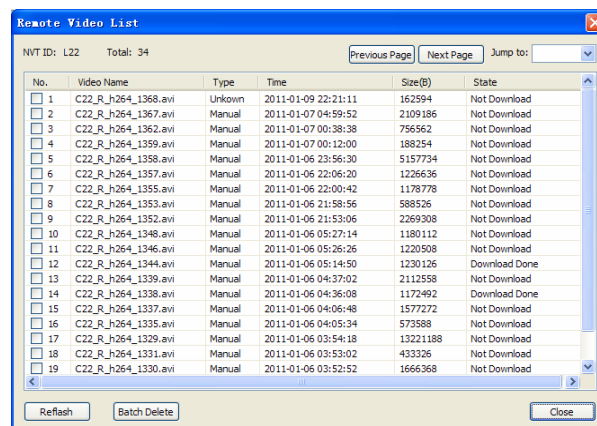
In nine screens mode, there are four pages and each page shows nine surveillance windows. Click or press key 1-4 to choose surveillance page.



In four screens mode, there are nine pages and each page shows four surveillance windows. Click or press key 1-9 to choose surveillance page. Input Backspace to quit full screen.

7.6 CAMERA MANAGEMENT

Open Camera list dialog box, right click on the relevant camera (26 in pic7-2, or right click on the relevant camera during surveillance), choose Camera Record Manage on the popped out shortcut menu, the remote camera list will be displayed.



Remote video list shows the basic information of video record: No. (video ID), Video Name, Type(Manual/ Alarm), Time, Size, Status.

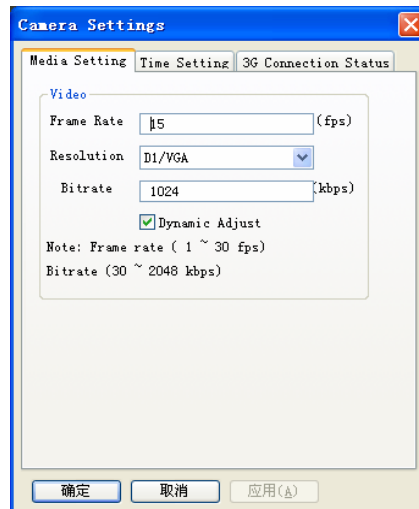
Video status list shows the download status of camera: When record download is done, user can right click to choose play or delete. When there is no download, user can right click to choose continue download or delete. When record is downloading, user can right click to choose pause or cancel. When download is paused, user can right click to recover or delete. When download is on the waiting list, user can right click to choose cancel. If user cancel download, system would prompt user for delete the downloaded record or not, choose yes to delete, choose no to keep the downloaded part. User can choose continuing download to download the remaining part.

Click **Refresh** button to refresh video record files list. Select the files needed to be deleted and click **Batch Delete** to batch remove.

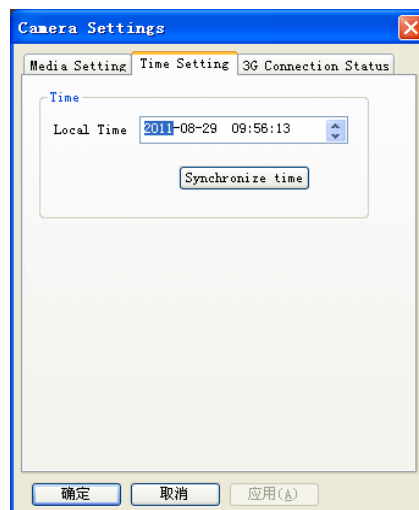
Attention: the deletion here means delete the record on camera. If user wants to manage local record, please refer to local video management. Maximum concurrent download sessions could be change in the system setting.

2. Camera setting: Open Camera List for choosing camera. Right click on the relevant camera (or right click on the relevant camera during surveillance), choose configure...menu for modifying relevant parameters.

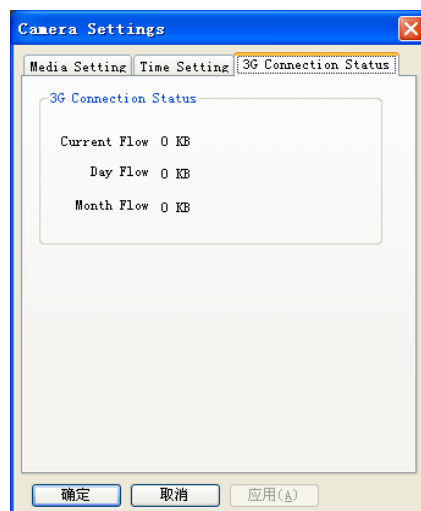
2.1 Media setting: Configure the camera video parameters including: Frame rate; Resolution; Bitrate. After modifying relevant parameters, click OK or APPLY.



2.2 Time synchronization setting: click Synchronize Time button to synchronize camera and local time.



2.3 3G data usage: Current usage; Daily usage; Monthly usage.

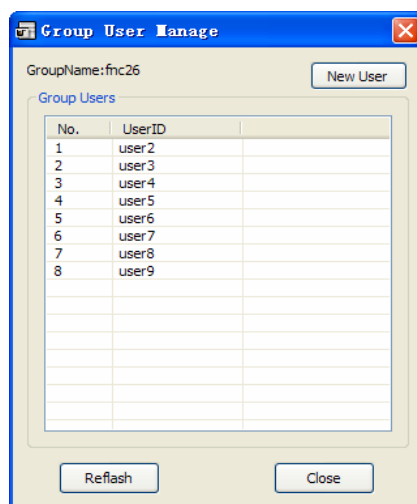


(该图需替换)

7.7 USER MANAGEMENT

If user logged in with administrator ID, user could manage group user including viewing group users' information, adding new user, renewing user information and delete user.

Right click on the relevant NVS, choose **Group User Manage...** in the popped out shortcut menu, user management dialog box would be popped out.



1. Adding new user: click **New User** and dialog box would be popped out. Fill in the user information then click **Add User**.

A dialog box titled "New User" with a blue header bar and a close button (X) in the top right corner. It contains four text input fields: "User ID:" with the value "newuser", "Password:" with "*****", "Password: (confirm)" with "*****", and "Group Name:" with "fnc23". At the bottom are two buttons: "Add User" and "Cancel".

User ID: newuser

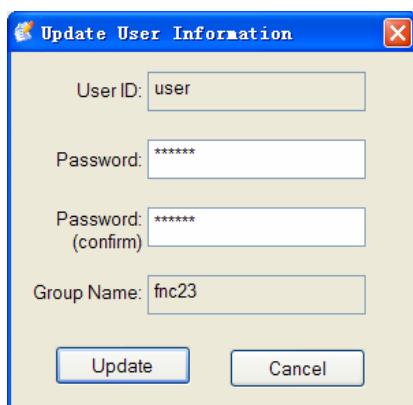
Password: *****

Password: *****
(confirm)

Group Name: fnc23

Add User Cancel

2. Editing User Information: right click on the user information, choose **Edit User Information** in the popped out shortcut menu and update user information dialog box would be shown. After editing user information, click **Update**.

A dialog box titled "Update User Information" with a blue header bar and a close button (X) in the top right corner. It contains four text input fields: "User ID:" with the value "user", "Password:" with "*****", "Password: (confirm)" with "*****", and "Group Name:" with "fnc23". At the bottom are two buttons: "Update" and "Cancel".

User ID: user

Password: *****

Password: *****
(confirm)

Group Name: fnc23

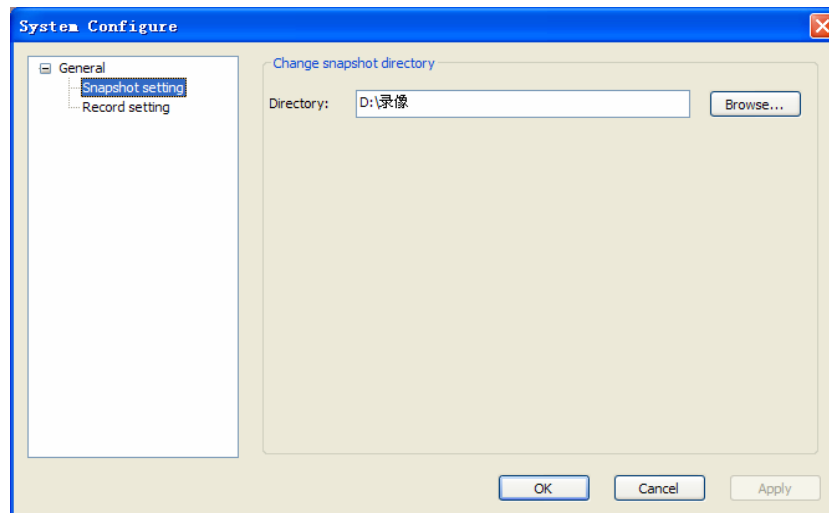
Update Cancel

3. Deleting user: right click on the user information, choose delete in the popped out shortcut menu and deleting dialog box would be popped out. Choose OK to delete user, choose cancel to return to user management dialog box.

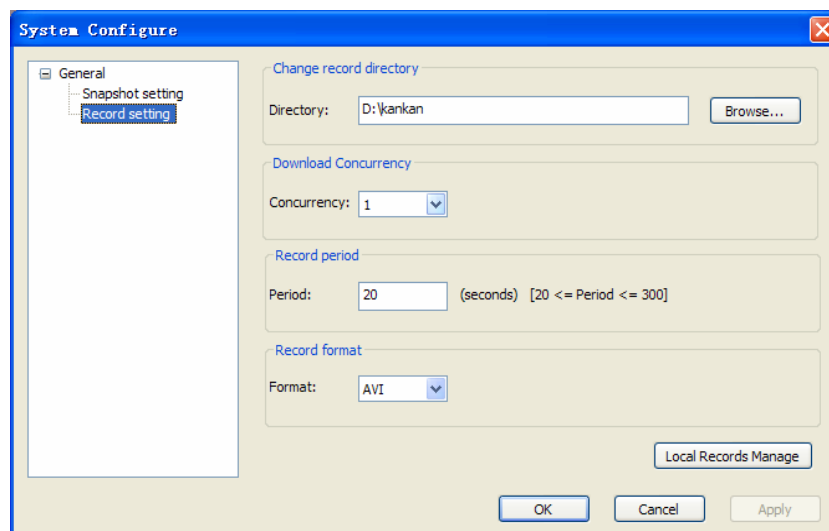
7.8 SYSTEM SETTINGS

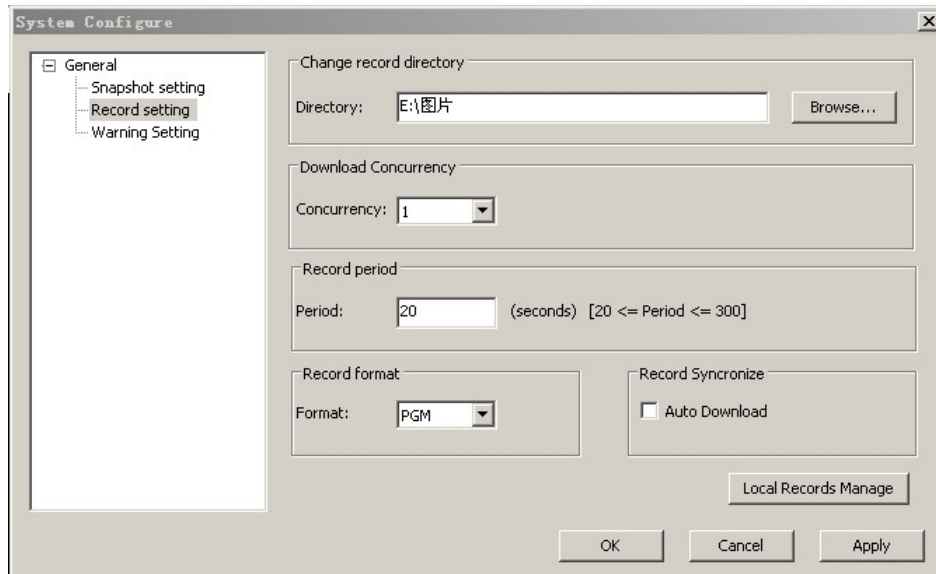
Click **Setting** button, system setting dialog box would be popped out. Snapshot and record parameters can be changed.

1. Snapshot setting: click **browse...** button, browse snapshot saving folder, click OK. The new snapshot directory would be shown. Or input snapshot save path, click **OK** or **Apply** to save.



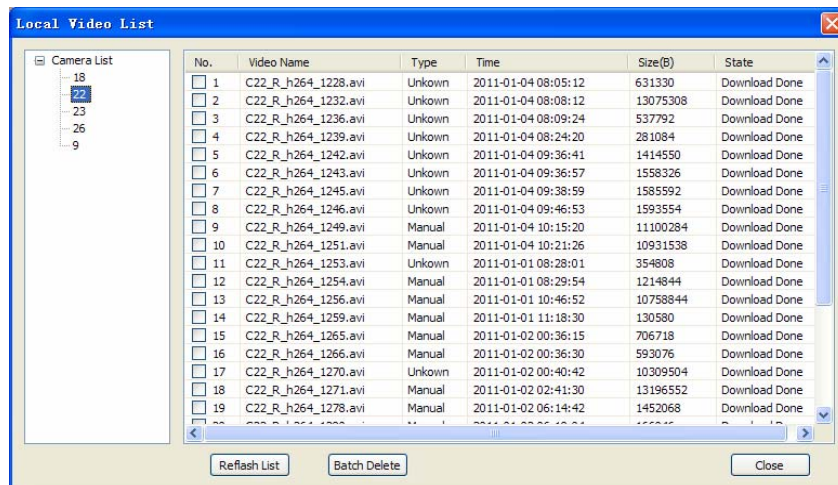
2. Record setting: user could change record directory, download Concurrency (1), record period, record default time of single click and record format(PGM, AVI).





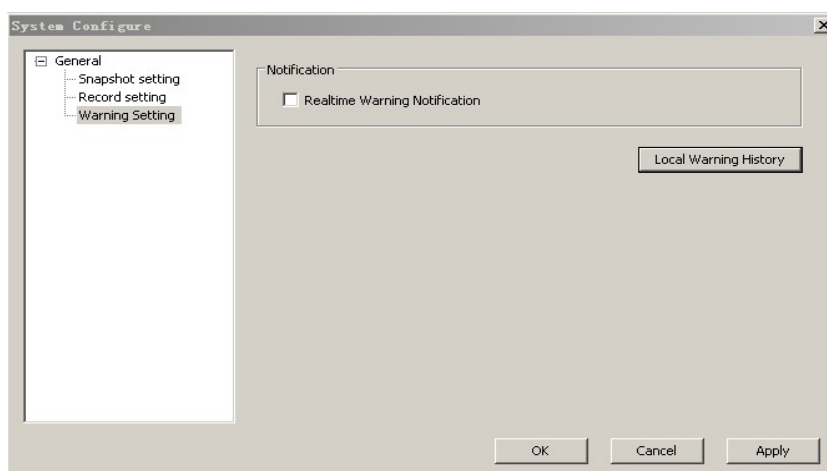
Attention: after changing save path, the current downloading or previous downloaded record would be saved in the previous folder, but the newly downloaded record would be save in the updated folder. Self-synchronizing record would be on effect after reconnection. If choose Auto Download, system would automatically download the unfinished video.

- Local record management: click Local Record Manage, local record management dialog box would be popped out.



List of camera ID with downloaded record files would be shown on the left. In above picture, Camera with downloaded videos would show five cameras with id: 18, 22, 23, 26, 9. Click camera ID and relevant local record files information would be shown on the right. The last column shows the record download status. When record download is done, user can right click to choose play or delete local files. When record is not completed, user can right click to choose delete or play the downloaded files. User can check record files and click **Batch Delete** button to begin batch remove.

4. Alarming Setting: Set showing realtime alarming information and view on local alarming record.

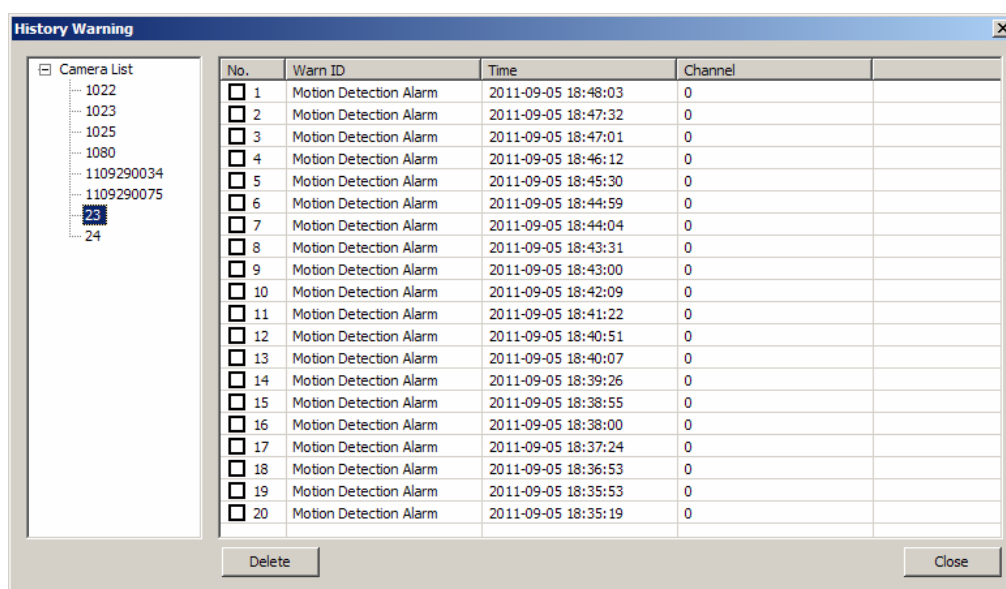


a. Real time alarming warning: after choose Realtime Warning Notification, real time information would be shown in the middle of video if camera alarms.



Real time alarming warning would be gone after clicking on it.

b. Local alarming history: click Local Warning History, local alarming history dialog would be popped out



Camera ID list shown on the left. Click camera ID, relevant local alarming record information would be shown on the right:
 Right click one of the record to delete the record. Or choose several records and click Delete to batch delete records.



8 3G CAMERA MANAGEMENT FUNCTION

8.1 STARTING UP CAMERA

- 1、 Switch on the power, camera will startup and undergo self-detection
- 2、 When self-detection is completed, camera enters surveillance mode. It can be connected to network through wired or wireless network and send broadcast packet.

8.2 CAMERA PTZ SELF-CHECKING

After switching on the power, camera will undergo PTZ self-detection (right, left, up, down). The camera will rotate to the default position after self detection.

8.3 CAMERA INDICATOR LIGHT

Under camera working status and standby mode, red light flashes slowly means 3G works well; blue light flashes slowly means WiFi works well. Except for system startup or firmware updating state, red light flashes quickly means system is in failure.

8.4 INFRARED LIGHTING

The infrared lighting of camera support surveillance at night and it would automatically switch on in dark situation.

8.5 SD CARD MEMORY PORT

External SD card: SD card port is included that user can insert external memory storage for storing snapshot, audio record and video record.

Internal SD card: SD card is included in the system. User do not need to insert manually.

8.6 SIM CARD PORT

Camera includes SIM card port and internal modem. User can insert 3G SIM card, and then access Internet, make video call and audio call.

9 FAQ

Q1: Which kind of 3G modem does current 3G camera support?

A1: There are ZTE MU301, W ZTE MF210, W Huawei 176G, ZTE M1900 which have been tested. New modem type will be supported later and published and updated on the website.

Q2: Why video call from mobile phone can not be connected?

A2: Connection of video call from mobile phone depends on 3G network and the 3G signal strength which are different in different place. If 3G camera website shows that 3G signal is low, it means 3G network is out of signal or low signal. Please place the 3G camera to where 3G signal is good.

Q3: Why the PC software appears short-time mosaic in rare cases?

A3: This kind of camera system supports multiple modes: 3G mode, Internet mode and Ethernet mode. System would switch mode according to different situation. Image would probably be inconsistent in a short time when the system is switching mode.

Q4: Why it prompts failure when watching alarm video records on mobile phone?

A4: If record quality has set as High (can be changed in the Webpage (application -> record)), video records could not be played on mobile phone; if user needs to watch records on mobile phone, please set the record quality to low.

Q5: If user need to change language of the menu of video call into Chinese, what kind of format picture should be used and how to replace for the original file?

A5: There is no function for changing from English to Chinese currently. The language is factory default. If Chinese is needed, please send the camera back to us or update software online.

10 RELATED TECHNOLOGY PARAMETERS

10.1 3G NETWORK TECHNOLOGY PARAMETERS

3G network standard	TD-SCDMA	SMS	Support
Rate	GSM/GPRS/EDGE 900/1800MHz	Signal Strength Detection	Support, Beep when it is low signal strength
Transmission Rate	HSDPA rate:DL2.8Mbps/UL384Kbps. EDGE:236.8Kbps	IMEI Lock	Support, use with SIM card
3G video transmission channel	Video call channel (CS) network flow channel (PS)	Image sensor	High-definition CCD, High-definition CMOS
Video Standard	PAL/NTSC	Pixel count	PAL: 500(H)×582(V) NTSC: 510(H)×492 (V)

Resolution	Color 420TVL B/W 480TVL	Camera quality	Fixed Focus: 8mm/F1.6 Viewing angle: 42°
Luminance	Color 0.5Lux/F1.2 B/W 0.05Lux/F1.2	视频压缩标准 Video compression standard	H.264+H.263
Video compression resolution	VGA/QVGA/CIF/QCIF	Video frame rate	PAL: 25FPS/s, NTSC: 30 FPS/s, adjustable
Video code rate	32K~2Mbps adjustable, can be set by user / auto adjustable	Streaming Type	Video and Audio combined streaming

10.2 AUDIO TECHNOLOGY PARAMETERS

Audio compression Standard	AMR	Audio code rate	12.2Kbps
Audio input	1 path, RCA port	Audio output	1path, RCA port
Mobile Detecting Alarm	Support, three sensitivity levels	Wireless alarm input	Infrared, door contact, smoke, gas, Photoelectric Beam Detector, broken glass sensor, water sensor, emergency button, SOS
Wired alarm input	2paths, semaphore	Alarm output	1path, switch

10.3 OTHER TECHNOLOGY PARAMETERS

Wired network	10BaseT/100BaseTX Ethernet, RJ45port	Local storage	Support internal SD storage
Infrared	Internal infrared light, effective range 10-15m	Power Supply	12V DC
Consumption	About 5W		

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