

IP Camera User Manual



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Warranty

Dear customer, thank you for choosing to purchase and use our product! If while using this product you encounter any technical problems or problems with quality, please contact us. We are ready to serve you. In order that you can use this company's product more conveniently, please carefully review the repair warranty.

1. Service Contract

- The machine you purchased can be refunded within 7 days and replaced in first three months. The software can receive free upgrades in the first year, and in the first year can also receive limited repair service for this product.

2. Requirements for return or replacement

- The product outward appearance should have no scratches, be dirty, wrinkled, or have alterations of any kind.

- Invoice, warranty, product certificate and serial number are needed.

3. In the event of the following situations, regardless of expiration Date, location, repair or part replacement, our company must receive payment, and is not liable for any payment to the consumer. All resulting loses will be the consumer's responsibility:

- In cases of use causing the product's malfunction or damage, or if the environment is not suitable for the product's usage and causes malfunction or damage;

- In cases of natural disasters, as defined by law, or unavoidable circumstances that are not related to the product's quality that cause the product's malfunction or damage;

- In cases that the consumer's purchase receipt and the product ID number/model number written on the repair card are inconsistent;

- In cases that the consumer's use, care, protection inadvertently cause the machine's malfunction or damage;

- In cases that the product's up-to-standard certificate is damaged;

- In cases that there is no purchase receipt or repair card;

- In cases that the repair warranty has already expired.

4. No other warranties, other than this company's repair warranty or the national new three rules is effective.

5. In order to ensure consumer's rights, please carefully read the repair warranty content.

Table of CONTENTS

Chapter one: Introduction	4
1 Introduction	4
2 Main Features	4
Chapter Two: Installation	4
1 Package Content	4
2 Network Camera Connection	4
Chapter Three: Menu Description	5
1 Log in	5
2 Preview	6
2.1 Video Preview	6
2.2 Scene panel	7
3 System Settings	7
3.1 Clock Settings	7
3.2 Network Settings	7
3.3 WIFI	9
4 Camera Control	10
4.1 Channel Settings	10
4.2 Mask	11
4.3 Motion Detection Settings	11
4.4 Image Settings	11
5 Record Settings	11
5.1 Basic configuration	11
5.2 CIF sub-stream	12
6 Device management	12
6.1 Parameters management	12
6.2 Function customization	13
7 User Management	14
7.1 Add User	14
7.2 Delete User	14
7.3 Edit User	14
7.4 Authority Management	14
7.5 Online User	14

8 System Information	15
8.1 Basic Information.....	15
8.2 Bit Rate Information	15
8.3 Log view	15
8.4 Local settings	15
9 File Management	16
9.1 Picture and Record Search	17
9.2 Picture Control	18
9.3 Record Control	18
Chapter Four: Appendix	18
1 Specification	18
2 Main Function	19
3 Setting Parameters	20
4 Introduction of Mobile Phone Monitor	25
4.1 Configuration of Server (DVR)	25
4.2 Installation and Running of Client (mobile phone) Procedure	25
5 User manual statement mobile device	27
5.1 Warranty	27
5.2 FCC STATEMENT	27
5.3 FCC Radiation Exposure Statement	28

Chapter One: Introduction

1 Brief Introduction

This product is digital monitoring with traditional analog camera and web video service. Efficient Linux system, code in Flash and small size that's reliable and steady.

2 Main Features

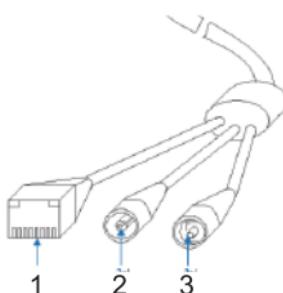
- The highest pixels for 30 W, 2M frame rate, real-time image
- Advanced video compression standard
- 1/4" CMOS sensor, fluid motion pics
- Automatic snapshot in all circumstance
- Heartbeat function: monitoring network camera by heartbeat mechanism
- Onekey rescue system,two stream and cell phone monitor
- User management: multi-levels of 15 users management.
Advanced magement mode supports rights control for individual channel.
- Build-in WEB browser supports IE access
- Open SDK provided

Chapter Two: Installation

1 Package content

After purchasing the product, unpack it and unload on a flat floor or a place where it is to be located, and refer to the "Package contents" for counting device fittings.

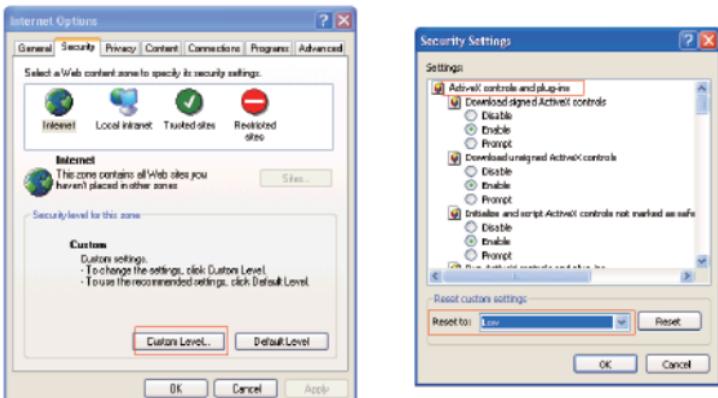
2 Network Camera connection



No.	Specification
1	The network input interface is RJ45 10/100M self-adaptive.
2	Power : DC 12V
3	RESET:Hold pressing the button 3 seconds, the system will clear user's data automatically, and will process restoring.

Chapter Three: Menu Description

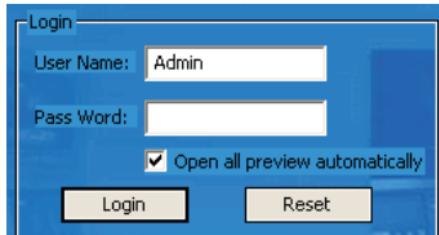
1 Log in



When using IE to preview network camera, you have to set the security level for ActiveX controls. Click [Tools] and choose [Internet Options] in the IE menu. Choose [Security] and click [Custom level...] to enter the “Security Settings” page, Enable ActiveX Controls and Plugins and choose low security level. For safety sake, reset to the “security level” to default values after the preview.



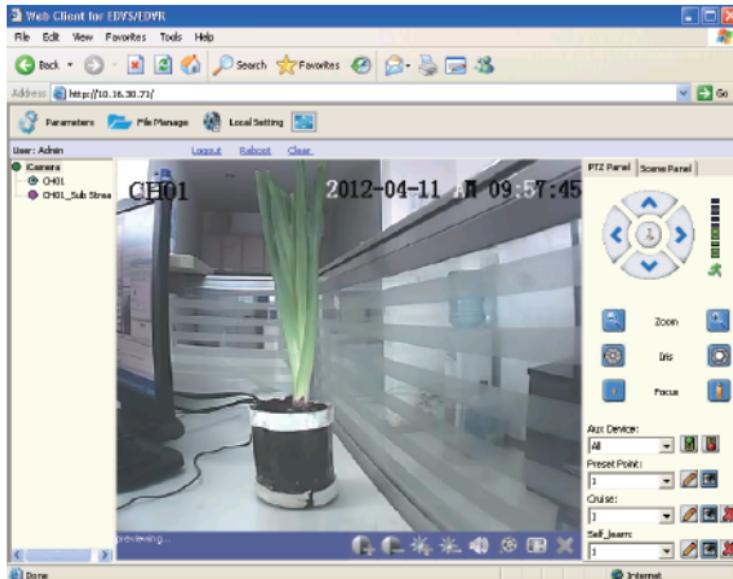
Type network camera IP address in the IE browser address bar, and press [Enter] to pop out dialog box of install ActiveX. Click [OK] to install.



Log in and preview. In Login screen, type in network camera username (default: Admin), password(default password for Admin is 111111, choose[Automatic open Preview], and click[Log in]. Users are able to preview the image.

2 Preview

2.1 Video Preview



1)Tool Bar: click into relevant function

Logo	Description
	Parameters Enter into system parameters configuration
	File management Enter into picture management/ local record files playback
	Local settings Local image/ record files storage settings

2)Channel directory tree: Support mainstream and CIF sub-stream types of preview. Open relevant preview image in the right region 3 by double clicking directory node.

3)Preview

Icon	Description
	Adjust image contract up
	Adjust image contract down
	Adjust brightness up
	Adjust brightness down
	Start/stop voice monitoring. The icon will turn to green when recording
	Start/stop recording. The icon will turn to green when recording
	Click to snapshot
	Stop preview

4)Traditional PTZ and Scene panel

2.2 Scene panel

In preview mode, select Scene Panel on the right. The details are as follows:

Image color	Black and white/ Color
Image direction	General/ Rotate/ Reflect/ Rotate + Reflect

3 System Settings

3.1 Clock setting

Parameters	Network Parameters	WIFI
Device Name:	iCamera	Set
Video Resolution:	PAL	
System Time:	2012-04-11 Wed AM 11:02:40	Auto-adjust
Date Format:	YYYY-MM-DD W hh:mm:ss	
Time Format:	12 hours format	
DST:	Disable	Set

Please enter<Device parameters>-<System>-<Device parameters> to set time format. Four formats are available: YYYY-MM-DD W hh:mm:ss, YYYY-MM-DD hh:mm:ss, MM-DD-YYYY W hh:mm:ss, MM-DD-YYYY hh:mm:ss. 12 hours and 24 hours are supported. Auto-adjustment can modify the device time to PC time.

3.2 Network settings.

Parameters	Network Parameters	WIFI
DHCP:	Fixed IP	
IP Address:	10 . 16 . 30 . 71	
Subnet Mask:	255 . 0 . 0 . 0	
Gateway:	192 . 168 . 0 . 1	
MAC:	20:12:04:06:14:70	
Main DNS Server:	1 . 0 . 0 . 0	
Secondary DNS Server:	1 . 0 . 0 . 0	
HTTP Port:	80	
Command Port:	5050	
Media Port:	6050	
Mobile Port:	8050	
XDSL:	Disable	<input type="button" value="Set"/>

Please enter <Device parameters>→<System>→<Network parameters>, there are three connection types of DHCP.

- 1.Static IP: If this type selected, please type in IP address, subnet mask, and gateway. User can ping network to check its connection status.
 - 2.DHCP: If this type selected, a DHCP server should be set in network. A dynamic IP of device will be assigned automatically and displayed on IP Address column.
 - 3.PPPoE: Click [>] the PPPoE setup screen will appear. Type in user name and password and click [OK] to confirm. System will dial automatically. After accomplishing dialing, the IP address will be assigned and displayed automatically on IP Address column.
- HTTP Port: IE port default number is 80.
 Signal Port: It is the first entry port for communication between web client and device, which is mainly used for controlling of log-in, log-out, real-time preview, remote playback, and remote download, etc.
 Media Port: It is for media stream transmitting including real-time stream, voice stream and file stream etc.
 Mobile port: port is the channel of mobile phone when the data transmission, all the media and signaling data transmitted by this port.

DDNS Parameters

Server:	members.3322.org
User Domain Name:	
User Name:	
Password:	
Refresh Time:	30 minutes

Confirm Cancel

DDNS: Click [>>], the DDNS setup screen will appear. Select a DDNS server and type in the DDNS address, user name and password. Major/Minor DNS setting respond to different domain sever IP.

3.3 WIFI

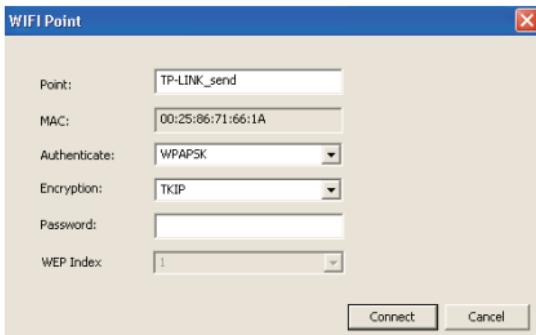
Parameters	Network Parameters	WIFI
WIFI	Enable	
DHCP	Dynamic IP	
IP Address:	192 . 168 . 1 . 101	
Subnet Mask:	255 . 255 . 255 . 0	
Gateway:	192 . 168 . 1 . 1	
MAC:	7c:dd:90:16:a8:db	
Main DNS Server:	192 . 168 . 1 . 1	
Secondary DNS Server:	192 . 168 . 1 . 101	
All Point:		
Point	Point Signal	Encrypt
jbnshome	7%	Encrypt
TP-LINK_send	100%	Encrypt
hy_test	100%	Encrypt
cmttech	23%	Encrypt
HY-3F	83%	Encrypt
ChinaNet	31%	Unencrypt
IP-COM	18%	Unencrypt
dlink_wl	18%	Encrypt
WirelessNet-sea	13%	Unencrypt
whtarenaoffice	13%	Encrypt

New Refresh Point

After started WIFI, user can select DHCP, static IP. The method to set major/minor DNS sever is similar with Network parameters setting.

Switched to [WIFI], when hotspot is searching, the name of wireless router, signal intensity, encryption will be list on the screen. It will repeat by clicking [Refresh].

Open the image below by clicking [Add hotspot] or double clicking existed hotspot.



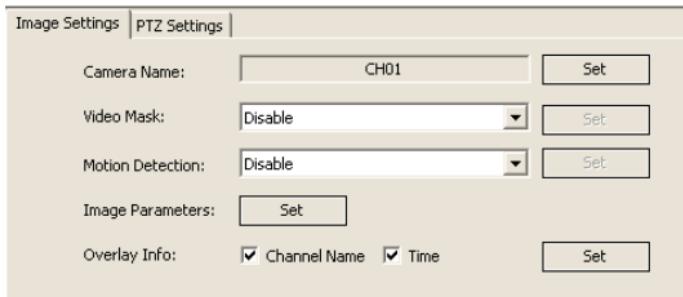
If entered this screen by double clicking, hotspot will be assigned automatically; if entered this screen by clicking [Add hotspot], user has to type in hotspot, corresponding encryption mode and password. Click [Connect], close the dialog box, and connected or not will be list on the research results list.

Point	Point Signal	Encrypt	New
TP-LINK_send(Connected)	100%	Encrypt	
cmtech	23%	Encrypt	
WirelessNet	13%	Unencrypt	
HY-3F	94%	Encrypt	
dlink_wl	18%	Encrypt	
ChinaNet	37%	Unencrypt	
jbnshome2	13%	Unencrypt	
hy_test	100%	Encrypt	
jbnshome	23%	Encrypt	
whtarenaoffice	23%	Encrypt	

If connected, [Connected] will appear after hotspot; if not, please click [Refresh].

4 Camera control

4.1 Channel settings



Please enter<Device parameters>-<Camera settings>-<Image> to set channel name. User can choose the suitable letter and size. In OSD, the channel name will be displayed on left upper corner when clicking [Channel name], and the channel time will be displayed on the righter corner of the screen when clicking [Time].

4.2 Mask settings

Mask setting function can make some regions of the image invisible. These regions in preview image and playback image are all filled with black pixels. Please enter<Device parameters>-<Camera settings>-<Image> to set. Enter setting screen by clicking [Set] button. User can set defence area by dragging mouse with left key pressed, and cancel the defence box on the defence area by right clicking the mouse. Press [ESC] or click mouse left button to exit. Two defence areas can be set per channel.

4.3 Motion detective settings

Motion detection settings include sensitivity and area. The sensitivity includes three levels: High, Mid, and Low. Please select <Device parameters>→<Camera settings>→<Image> to set. Enter setting screen by clicking [Setting/Area setting...]. User can set detective area by dragging mouse with left key pressed, and cancel the defence box on the defence area by right clicking the mouse.

Alarm triggered event handling include: report to alarm center/ E-mail

Report to alarm center: After alarm, it will report to alarm center.

E-mail linkage: After alarm, the relevant information will be sent the authorized E-mail address.

4.4 Image settings

Please enter <Device parameters>-<Camera settings>-<Image> to set brightness, contrast, saturation and hue. It will take effect after being saved. Restore to factory default by clicking [Restore default]

5 Record settings

5.1 Basic configuration

Basic Configuration Sub Bit Stream	
Main Stream	
Bit Rate Type:	Video Stream
Record Quality:	High Quality
Resolution:	VGA(640*480)
Bps Type:	VBR
Image	1-BEST
Fps:	Full Fps
Pre-record Time: type:	
Delay time:	

Please enter <Device parameters>-<Video setting>-<Basic configuration> to set mainstream.

Stream types include: mixed stream (audio stream), video stream. If selected video stream type, audio information will not be in the video and will not be received by client side.

Record quality falls into three categories: high quality, standard quality and normal quality, select [Custom] to set "resolution, bit rate type, frame rate" and so on. Those settings modify the quality and size of the record (preview) and the image. Please refer to appendix 4.2 for details.

5.2 CIF sub-stream

Basic Configuration Sub Bit Stream	
Video Bit Rate:	512 kb/s
Video Fps:	15

CIF record bit rate: 32Kbps/48Kbps/64Kbps/128Kbps/256Kpbs/512Kpbs; record frame rate options are 1/5/10/15.

6 Device management

6.1 Parameters management

Please enter <Device parameters> - <Device management> - <Parameters management>. It includes "recover factory setting", "export device parameters", "Import device parameters", and "PTZ protocol management".

- Recover to factory setting

[Recover factory setting]: All the parameters are recovered to default values except some parts of parameters.

- Import and Export of device parameters

Click [Export device parameter] to export the device parameters to client PC, and then click [Import device parameters] to Import the parameter files in client PC to other devices

- PTZ protocol management

Users can install the desired PTZ protocols and uninstall some protocols.

Note: Uninstallation doesn't mean to remove protocols but to save inherent protocol files on HD. When it needed, they user can install the protocol directly. Other protocol files are cut to client PC. When it needed, user can install the protocol again from the PC.

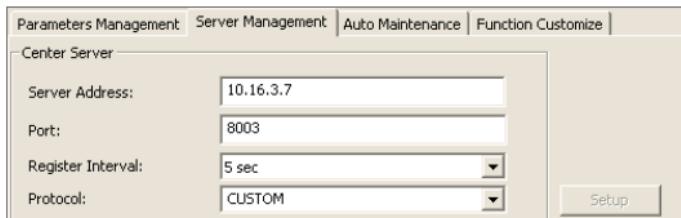
- System upgrade

Make sure upgrade program already copied on PC before upgrading. Click [System upgrade] and follow the prompts.

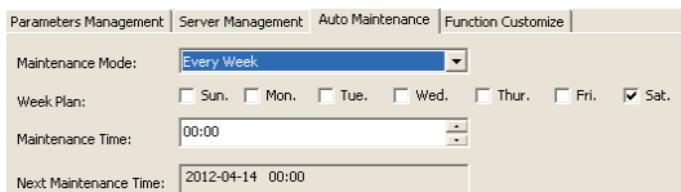
The device will restart after the successful upgrade

6.2 Function customization

Please enter <Device parameters>-<Device management>-<Function customization> screen, user can choose center management server configuration or maintenance.



If "center management server" selected, register to corresponded NVMS software which helps user easy to manage the device.



Enter [Device parameters/Device management...] screen, click pop-up [Maintenance] to set auto-maintenance mode to reboot the device for clearing redundant data.

7 User management

Device factory default user is Admin and password is 111111. Admin has authorities including add/delete/manger other users.

7.1 Add user

Please enter<Device parameters>-<User management>-<User manager>-<Add user>.

Fill in new user information.

E-mail: fill in the user's email address.

Note: If the user has "Email Notify" authority, the "Email Linkage" information will be sent to the user's mailbox.

Enabled or not: Enable or disable the added user.

Note: The system supports a maximum of 16 users.

7.2 Delete user

Admin can delete other users except "Admin" and "Default"

7.3 Edit user

Admin can edit all other users. Other users can login and modify their own user information including password and email.

7.4 Authority settings

Admin can edit all other users' authority. Other users can check their own authorities.

7.5 Online user

Prompt login user information.

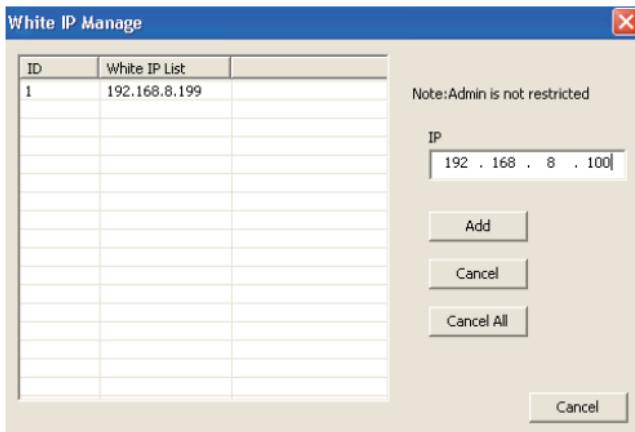
The screenshot shows a user interface for managing online users. At the top, there are two tabs: "User" and "User Online". The "User Online" tab is selected, indicated by a thicker border. Below the tabs is a table with the following data:

ID	User Name	Login Type	Login Time	Network ...
1	Admin	Remote10.16.30.18	2012-4-11 9:54:15	1304Kb/s
2	Admin	Remote10.16.3.14	2012-4-11 9:38:38	1296Kb/s
3	Admin	Remote10.16.3.25	2012-4-11 9:40:6	1291Kb/s

At the bottom of the table area, there are three buttons: "Disconnect", "Enable IP Restrict" (with a checked checkbox), and "IP Manage".

When users log in, user name, IP address, login time, and network flux of video preview will be displayed in the list of online users.

Disconnect: Select the client login information, click to disconnect the link, then the device will disconnect the remote link with the user automatically.



IP Filter: Set IP white list. While enable the IP filter, only the users on the PC with valid IP address in the white list can remotely log into the device.

8 System information

Please enter <Device parameters>-<System information> to view the following information.

8.1 Basic information

Basic information mainly includes device model and device serial Number and some external interface information.

8.2 Stream information

Stream information will show current mainstream, CIF sub-stream rate.

8.3 Log view

Log type includes "All"/ "System operation"/ "Configure operation"/ "Recording operation"/ "User management"/ "Alarm event"/ "Exception event"/ "Storage management".

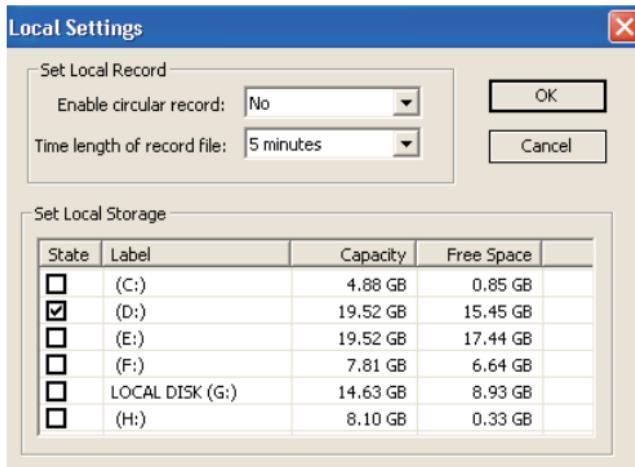
Select the time range.

Click [Search], the screen will display the result of search. Click [Export] to save all the queried logs as ".txt" document.

Note: The maximum number of logs device supported currently is 3000. The storage mode adopts overwrite mode.

8.4 Local settings

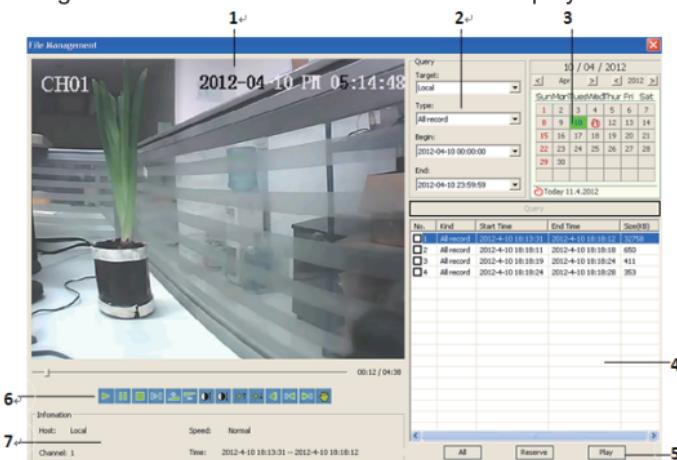
Click "Local settings" to set local record and snapshot.



Software will be assigned HD information of current PC and choose several partitions for storage. Click [Enable repeat record]. When all selected partitions' volumes are less than 2G, earlier record files will be deleted. Click [Disable repeat record]. When all selected partitions' volumes less than 2G will stop. [Record duration] stands for the recording period of time. When time is up, new files will be created automatically.

9 File management

Click File management to enter Web record files research/play screen.



Top left corner (region 1) on replay screen is video channel replay area.

Top right corner (region 2) is record or image select, and the time zone of query.

Region 3 is calendar and highlight record data.

Region 4 is the list of files.

Region 5 is record and play area.

Region 6 is file playback control.

Region 7 is video playback area or file information display area.

Refer to next page for details.

9.1 Picture and Record Search

Query	
Target:	<input type="text" value="Local"/> ▼
Type:	<input type="text" value="All record"/> ▼
Begin:	<input type="text" value="2012-04-10 00:00:00"/> ▼
End:	<input type="text" value="2012-04-10 23:59:59"/> ▼

1. Select search pictures/search record from type option.
 2. Type in start-time and end-time. The default time is the day user type.
 3. Click [Search], the result will be in the list.

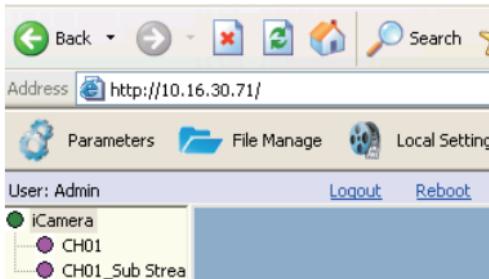
1. Search result will be in the list.
2. Select video or picture by clicking "All" and "Invers".
3. Check video or picture, and click "Play" to start playing. Or view video or pictures by double clicking it.

9.2 Picture control

When [Picture search] selected, there are two buttons to check last picture and next picture, which only take effect when selecting multi-pictures.

9.3 Record control

Icon	Description	Icon	Description
	Play		Adjust image contrast up
	Pause		Adjust image contrast down
	Stop		Adjust brightness up
	Next		Adjust brightness down
	Forward a record fast at the speed of 2x, 4x, 8x, 16x		Move back to previous file. (it is valid when multi-files selected)
	Rewind a record slow at the speed of 1/2x, 1/4x, 1/8x, 1/16x		Turn to next file. (it is valid when multi-files selected)
	Start/stop voice monitoring		Snapshot. Captured pictures are saved on "local settings".



After login, the preview screen will appear log out and reboot button.

Log out: back to the login screen. Log in again to get device relevant parameters.
Reboot: click this button to confirm reboot again, and the remote device will reboot.

Chapter Four: Appendix

1 Specification

VGA Network Camera		
camera	Sensor	1/4" CMOS sensor
	Pixel	640(H)× 480(V)
	Picture procession	Brightness, contrast, saturation, hue
I/O Interface	Network interface	RJ45 10/100M self-adaptive
	Power	12 V DC @ 300 mA
	Led	power led/ Status LED
	Reset button	One (Hold pressing the RESET button 3 seconds, the system will clear user's data automatically)
Physical parameters	Temperature	-10- 50°C
	Humidity	20%-80%RH
Video parameters	Video compression	H.264/JPEG
	Video code	640x480 / 352x288
	Sub video code	352x288
	Video Compression Resolution	CBR、 VBR
	Frame rate	mainstream/ substream 1~30fps

2 Main functions

Data storage	Ftp	Upload files
	NAS	support
	IP-SAN	support
	Break even heavy	Support , private protocol
Main function	Network control	Support IE/ NVMS/ remote configuration/ video browse/ playback/ E-mail alarm
	User management	Two levels of several users. User mode control authority of every single channel
	Log	Saved on Flash. Support up to 3000
	Auto fault diagnose	Diagnose device fault through mainboard indicator and locate in main chip
	Recovery	When master control/ codec is fault, device will reboot and record the fault code on log view.
User operations	WEB browser management	Support browser/ playback/ device management based on IE
	Central management	Support device register/ heartbeat/ alarm subscribe

User operations	Client side	Support browser/ playback/ device management based on client side software
	TELNET	Support device management based on TELNET
Network protocol	PPPOE	Support PPPOE client
	DHCP	Support DHCP client
	P/TCP/UDP	Support IPv4, TCP/UDP protocols
	DNS/DDNS	Support (at least DYNDDNS,3322) /DIY DDNS
	Other protocols	SMTP, NTP, FTP, IPSAN, NAS
	Device communication protocol	Support RTSP/RTP/RTCP/HTTP+XML/SIP/3G

3 Setting parameters

Menu class 1	Menu class 2	Menu class 3	Menu options	Factory default values	default	ex-import
System	Device parameters	Device name	It can be set through IE or client software, Support multiple languages	iCamera	No	Yes
		Device output	PAL/NTSC/SECAM	NTSC	No	Yes
		System time	N/A	N/A	N/A	N/A
		Date and Time	YYYY-MM-DD W hh:mm ss YYYY-MM-DD hh:mm ss MM-DD-YYYY W hh:mm ss MM-DD-YYYY hh:mm ss	YYYY-MM-DD W hh:mm ss	Yes	Yes
		Time Format	12 Hour System / 24 Hour System	24 hour standard	Yes	Yes
		Summer Time	Enable/disable	Enable	No	Yes
		connection	Static IP / DHCP / PPPOE	Static IP	No	Yes
Network		IP address	When static IP, it can configure, if another situation, it can display only.	192.168.0.10	No	No
		Subnet	When static IP, it can configure, if another situation, it can display only.	255.255.255.0	No	No
		Gateway	When static IP, it can configure, if another situation, it can display only.	192.168.0.1	No	Yes

System	Network	MAC address	Display MACAddress; can not be modified	Factory default	N/A	N/A
		PPPOE user, password	Account up to 16 characters, password up to 32 characters	Factory blank	Yes	Yes
		Primary DNS	digital soft keyboard settings	1.0.0.0	No	No
		HTTP Port	[1,65535], and command port, media port, mobile port can be repeated	Static IP	Yes	Yes
		Command Port	[1024,65535], and HTTP port, media port, mobile port can not be repeated	5050	Yes	Yes
		Media Port	[1024,65535], and HTTP port, media port, mobile port can not be repeated	6050	Yes	Yes
		Mobile Port	[1024,65535] ,and HTTP port, command port, media port can not be repeated	8050	Yes	Yes
		Domain name server	members.3322.org members.3322.org (static) members.dyndns.org members.dyndns.org (static) cgi.tzo.com members.easydns.com www.justlinux.com update.ods.org www.zoneedit.com www.hn.org members.dhs.org www.dns.cx	members.3322.org	Yes	Yes
		User domain name	soft keyboard settings	Factory blank	Yes	Yes
		User name	soft keyboard settings	Factory blank	Yes	Yes
	WIFI	Password	soft keyboard settings	Factory blank	Yes	Yes
		Update time	None updated、1minutes、5 minutes、10 minutes、15 minutes、30 minutes	30 minutes	Yes	Yes
		WIFI	Enable/disable	Enable	No	No
		DHCP	Static IP / DHCP	DHCP	No	No
		IP address	When static IP, it can configure, if another situation, it can display only.	192.168.0.11	No	No

System	WIFI	Subnet	When static IP, it can configure, if another situation, it can display only.	255.255.255.0	No	No
		Gateway	When static IP, it can configure, if another situation, it can display only.	192.168.0.1	No	No
		MAC Address	Display MACAddress; can not be modified	Factory blank	No	No
		Primary DNS	digital soft keyboard settings	1.0.0.0	No	No
		Secondary DNS	digital soft keyboard settings	1.0.0.0	No	No
		Hotspot search	All searched router	N/A	No	No
		Hotspot name	N/A	N/A	No	No
		Confirm format	Enable / share/WPAPSK/ WPA2PSK	Enable	No	No
		encryption protocol	Enable/ share confirm format: NONE/WEP WPAPSK/ WPA2PSK confirm format: TKIP/ AES	NONE	No	No
		Password	N/A	N/A	No	No
Camera	Picture setting	WEP Index	N/A	1	No	No
		Channel name	Set through IE/ client side	CH01	Yes	Yes
		Video defence	Enable/disable	Disable	Yes	No
		Motion detective	Disable, high sensibility, middle sensibility, low sensibility	Disable	Yes	Yes
		Picture parameters	hue:[0,255],contrast:[0,127], saturation:[0,127]	Brightness 128; contrast46; Saturation 64	Yes	Yes
		Overlapping information	Channel name. time	channel name and time	Yes	Yes
		overlapping information-setting	N/A	Channel name: (10, 10) Time:(600, 10)	Yes	Yes
	Exception	Type	HDD error、IP conflict、disconnected、disk group full、	N/A	N/A	N/A

Camera	Exception	Linkage handling-HDD error	Report to the alarm center/ E-mail linkage/record/ linkage alarm output	blank	Yes	Yes
		Linkage handling-IP conflict	Report to the alarm center/ E-mail linkage/record/ linkage alarm output	blank	Yes	Yes
		Linkage handling-illegal access	Record/ linkage alarm output	blank	Yes	Yes
		Linkage handling-disk group full	Report to the alarm center/ E-mail linkage/record/ linkage alarm output	blank	Yes	Yes
Record	Basic configure	stream type	Mixed stream, video stream	Mixed stream	Yes	Yes
		Video quality	High quality, standard quality, common quality, custom. High quality: resolution (640*480), bit rate control (variable bit rate), image quality (1), frame rate (full frame rate) standard quality: resolution (640*480), bit rate control (constant bit rate), bit rate (2048 kbit/s), frame rate (full frame rate) common quality: resolution (352*288), bit rate control (constant bit rate), bit rate (1024 kbit/s), frame (full frame)	High quality	Yes	Yes
		Video Quality-custom	resolution: VGA(640*480) CIF(352*288) Bit rate limit: 256 kbit/s, 512 kbit/s, 768 kbit/s, 1024 kbit/s, 1280 kbit/s, 1536 kbit/s, 1792 kbit/s, 2048 kbit/s custom(for constant bit rate) Frame: full frame, 20 frames/second, 15 frames/sec, 10 frames/sec, 8 frames/sec, 6 frames/sec, 3 frames/sec, 2 frames/sec, 1 frame/sec	N/A	Yes	Yes
		pre-record time	5 s, 10 s, Largest pre-recorded time	Largest pre-recorded time	Yes	Yes
		delay time	10s, 30s, custom	30s	Yes	Yes
		Device record stream	Mainstream/ CIF sub-stream	mainstream	Yes	Yes

Record	CIF sub-stream	Bit rate	32 kbit/s, 48 kbit/s, 64 kbit/s, 128 kbit/s, 256 kbit/s, 512 kbit/s	512 kbit/s	Yes	Yes
		Frame rate	1 frame/sec, 5 frames/sec, 10 frames/sec, 15 frames/sec	15 frames/sec	Yes	Yes
Device management	Server management	CMS	Auto-handle domain name or IP	192.168.0.30	Yes	Yes
		port	[1024,65535]	3031	Yes	Yes
		Register Interval	5s、10s、15s、20s	10s	Yes	Yes
		center server protocol	Customized/ global E-eye	192.168.0.20	Yes	Yes
		Global E-eyeID	N/A	N/A	N/A	N/A
		NAT sever	Disable/ enable	Disable	No	No
		NTP address	Auto-handle domain name or IP	192.168.0.30	No	No
		Port	N/A	6004	N/A	N/A
		Email Server	Auto-handle domain name or IP, support maximum of 64 characters	Factory blank	Yes	Yes
		Account	support maximum of 64 characters	Factory blank	Yes	Yes
		Password	support maximum of 32 characters	Factory blank	Yes	Yes
		SMTP Port	[0 , 65535]	25	Yes	Yes
		SMTP Authorization	LOGIN、PLAIN、NONE	LOGIN	Yes	Yes
		SMTP SSL	Disable、Enable	Disable	Yes	Yes
Maintenance	Maintenance Mode	disable、each day、each week、single time	disable	Yes	Yes	Yes
Customization	EMAIL alarm linkage	Disable/ enable	disable	No	No	No
	Mangement Server	Disable/ enable	disable	No	No	No
	Maintenance	Disable/ enable	disable	No	No	No
User management		User information, including account, password, authority. Default includes 1 users. Account: Admin, password: 111111, Authority: All authorities; Account: Default, Authority: Local preview;			No	No

4 Introduction of Mobile phone monitor

4.1 configuration of server

Parameters		Network Parameters	WIFI				
DHCP:	Fixed IP						
IP Address:	10	.	16	.	30	.	71
Subnet Mask:	255	.	0	.	0	.	0
Gateway:	192	.	168	.	0	.	1
MAC:	20:12:04:06:14:70						
Main DNS Server:	1	.	0	.	0	.	0
Secondary DNS Server:	1	.	0	.	0	.	0
HTTP Port:	80						
Command Port:	5050						
Media Port:	6050						
Mobile Port:	8050						
XDSL:	Disable			<input type="button" value="Set"/>			

Setup device, type in user name and password to log in.

Shown as the left Fig, please enter [System]-[Network] to set [Mobile port]. Modify port, the default port number of mobile phone is 8050.

Click [Save] to save and exit.

Basic Configuration		Sub Bit Stream
Video Bit Rate:	512 kb/s	
Vido Fps:	15	

Please enter [Record]-[CIF sub-stream] to set frame rate and data rate. The frequently-used frame rate is 5fps and data rate is 128 kbps.

4.2 Installation and running of client (mobile phone) procedure.

- Versions supported by client side are as follows:

Operating system supported: Android 2.1~2.3, Symbian V3/V5, windows mobile5.5/6.1, ipad ios 5/IPhone, BlackBerry 7.

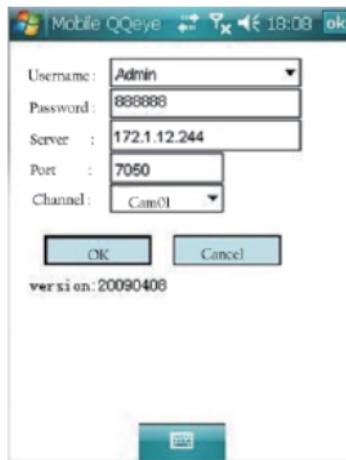
Note: Let's take winmobile6.0 for example to show you how to install and run the

procedure.

·Mobile phone monitor software

Software is in package content disk. Or contact sales company.

·Setting



Click [Setting] on the Fig. shown as left will appear.

Type in the right [User Name] and [Password], which must be according with the user name and password on DVR side. Type in the IP address on [Server] column. Type in the [Port] for connection such as 8050.Click [OK] to save and exit the screen.

·Preview



Click [Connect] on the mobile phone monitor screen will appear after several seconds of buffer.

You can select the channel that you want to preview by selecting in the pull-down menu of [Channel] column. Or you can click [Disconnect] to stop preview.

· Operation

 all of these buttons are operated by PTZ.
From left to right, they are [Turn Left][Turn Right][Move Up][Move Down][Zoom out][Zoom in][Focus far][Focus near][Enlarge Iris][Narrow downIris].  is for capture picture.

Note: Thanks for using our products. The installation above is take operation system of Windows Mobile for example. There may be some differences between different software versions and operation systems without being noticed.

5 User manual statement mobile device

5.1 Warranty

If product has been used under normal conditions, and a product failure occurs, the warranty will cover with no free. Warranty terms as follows:

a) Charge-free maintenance if within one year of purchase. We can repair it for free during the guaranteed period. (damage must not have been caused by misuse, vandalism, or any other type of external factor not conducive to product itself) Repairs over this period will be free of charge.

b) During guarantee period, breakdown caused by misuse or other reasons out of range of warranty. You could ask repair depending on the product. We only charge for components and not for the maintenance.

c) When the product needs maintenance, hand up the card with products to the manufacturer or local distributor.

d) If the item has been taken apart and the selling label torn up, warranty is void.

e) We do not accept the damaged item due to modification or add other functions.

The Following Circumstances will not be free warranty

a) Period check, maintenance or change components due to normal attrition.

b) The damages due to crash, extrusion, artificial flooding, moisture or other personal reasons.

c) The damages due to floods, fire, lightning strike and other natural calamities or physical damage.

d) Repaired item by non-authorized repair centers.

All above terms, if changed, regarded to relevant regulations.

5.2 FCC STATEMENT

1. 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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. 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, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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.

5.3 FCC Radiation Exposure Statement

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

