

"This product is meant for providing convenience for baby monitoring. The manufacturer is not responsible for any legal liability caused by negligence. "

iBaby Monitor

Model: M3

User Manual

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1 Introduction

The iBaby monitor combines a high quality digital video camera with network connectivity and a powerful web server to bring clear video to your iPod Touch, iPhone and iPad, or a PC from anywhere on your local network or over the Internet.

1.1 The package contents

- ✓ Camera * 1
- ✓ User Manual & Utility CD *1
- ✓ Power Adapter *1
- ✓ Bracket * 1
- ✓ Cable * 1
- ✓ Antenna * 1
- ✓ Quick Installation Guide *1
- ✓ Screw *1 set

1.2 Function and Features

- ✓ Support 802.11b/g/n protocol, can build up wireless monitoring.
- ✓ It adopts the TCP/IP network protocols and has inner web server. Users can browse video with a iPod Touch, iPhone and iPad, also can browse video through IE and other browsers.
- ✓ With built-in Microphone, it enables user to monitor the sound on the site. User can also connect this camera to a speaker, and it supports two-way intercom function.
- ✓ It was equipped with pan/tilt function, horizontally 350°and vertically 70°. Its outlook is smart, easy and convenient to install in many sites.
- ✓ Infrared LED for night vision covers 5m area, to realize 24 hours monitoring.
- ✓ Motion detection, sound detection and alarm pin can be connected to external sensors to detect environmental situation.
- ✓ Alarming record can be stored by email, FTP server. External alarm can be open when detecting something unusual.
- ✓ Supports UPNP, port forwarding automatically on the router.
- ✓ Manufacture attaches a label at the bottom of each Camera, providing free DDNS. When Camera is connected to the internet, this DDNS can be used to visit the camera.
- ✓ Manufacture provides free PC software, support Multi-view, Long time recording, video replay etc.

1.3 Product Specification

Item	Sub Item	Description
Image Capture	Sensor	CMOS sensor
	Total of pixel	300k
	Minimum illumination	0 Lux(IR on automatically)
	Lens	f=3.6mm, F=2.0, Fixed Iris
Pan/Tilt	Pan Coverage	350°
	Tilt Coverage	70°
Assistant	Lighting	10pcs 850nm Infrared LEDs, 5m distance
	Lighting Control	Auto control
Video and Audio	Resolution	640*480(VGA)/320*240(QVGA)/160*120(QQVGA)
	Compression	MJPEG
	Frame rate	30fps
	Bit rate	128kbps ~ 5Mbps
	Image Rotation	Mirror /Flip
	Audio Compression	ADPCM
Network	Basic Protocol	TCP/IP、UDP/IP、HTTP、SMTP、FTP、DHCP、DDNS、UPNP、NTP、PPPOE
	Other Protocol	802.11b/g/n
Other Features	Video control	Support
	Dual way audio	Support
	Motion Detection	Support
	Sound Detection	Support
	Triggered Actions	Email/FTP/external alarm/send message to alarm server
	User Access Authority	Three levels
	Date/ Time Setting	Support
	Upgrade	Upgrade from network
	DDNS	A free DDNS provided by manufacturer
Hardware Interface	Ethernet	10Base-T/100base-TX
	Alarm In	1 channel
	Alarm Out	1 channel
	Audio In	Internal Mic and External Mic socket x 1
	Audio Out	Audio Line-out socket x 1
Physical Index	Weight	358g
	Main body	111mm(L)*110mm(W)*126mm(H)

	Power	DC 5V
	Power consumption	<6W
	Operating temperature	0°C ~ 40°C
	Operating humidity	10% ~ 80% non-condensing
Software(iPod Touch , iPhone and iPad)	iOS 4.0 or later	App is free to download from App Store
Software(PC)	OS Supported	Microsoft Windows 98/2000/XP/Vista/Win 7 etc. Mac OS
	Browser	Internet Explorer6.0 or higher, or Compatible Browser, Firefox, Safari etc.
	Application Software	IPCMonitor.exe

2 Appearance and interface

2.1 Appearance



Figure 1

Note: Status Indicator: the blue light is to show that the device is running, Slow flicking (once every 2 second), indicates the device is searching for network; Normal flicking (once per second), indicates the wired network connected; Quick flicking (2~3 times per second), indicates wireless network connected. The default state of status indicator is off. You can turn it on with your iPod Touch, iPhone and iPad, or PC software.

2.2 Interface of the camera

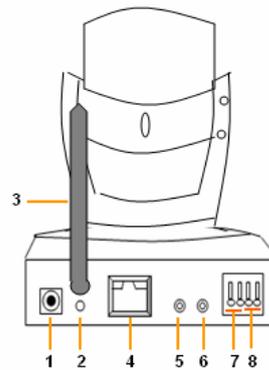


Figure 2

- 1) **Power Input Socket:** Connect Power adaptor, the adaptor's output is 5V 1.5A.
- 2) **RESET Button:** Press the RESET button and hold on more than 10 seconds, the camera will restart and recover to the factory default settings.
- 3) **WIFI Antenna Connector:** Install the WIFI antenna.
- 4) **RJ45 Ethernet Socket:** RJ45 Ethernet socket is 10/100M self-adjust.
- 5) **Audio Input Socket:** Audio input socket is designed for connecting external microphone. The built-in microphone will be invalidation when the external microphone plug in.
- 6) **Audio Output Socket:** Audio output socket is for line-out audio player, such as headphone, speaker, etc.
- 7) **Alarm Output Socket**
- 8) **Alarming Input Pin**

3 Visit Camera from Local Area Network

3.1 Local Area Network connection

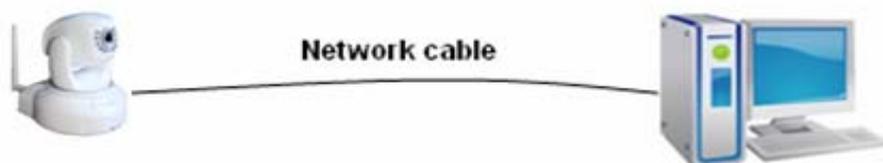


Figure 3

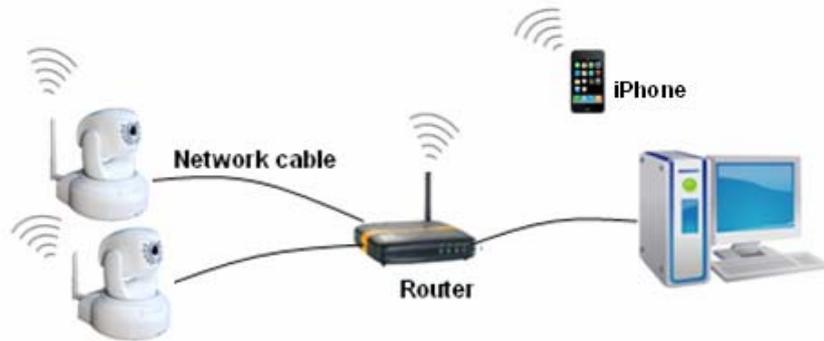


Figure 4

3.2 Visit camera with a iPod Touch, iPhone and iPad

Prior to using you must first install the iBaby Monitor App from the App Store. THIS IS A FREE DOWNLOAD. Please confirm the iOS is V4.0 or later. If not, update your iOS before using this product.

If you have not install that, please launch the App Store, and search using the keyword “iBaby Monitor”, be sure your web function is enabled.

After downloading, a icon should be appeared like this: .

Launch the iBaby Monitor App, it will automatically search the camera in your local area network, and follow the instruction on the App, you can set up the camera easily.

3.3 Search and set the IP address of the camera

Run “BSearch_en.exe” in the CD, the setting interface as figure 5.

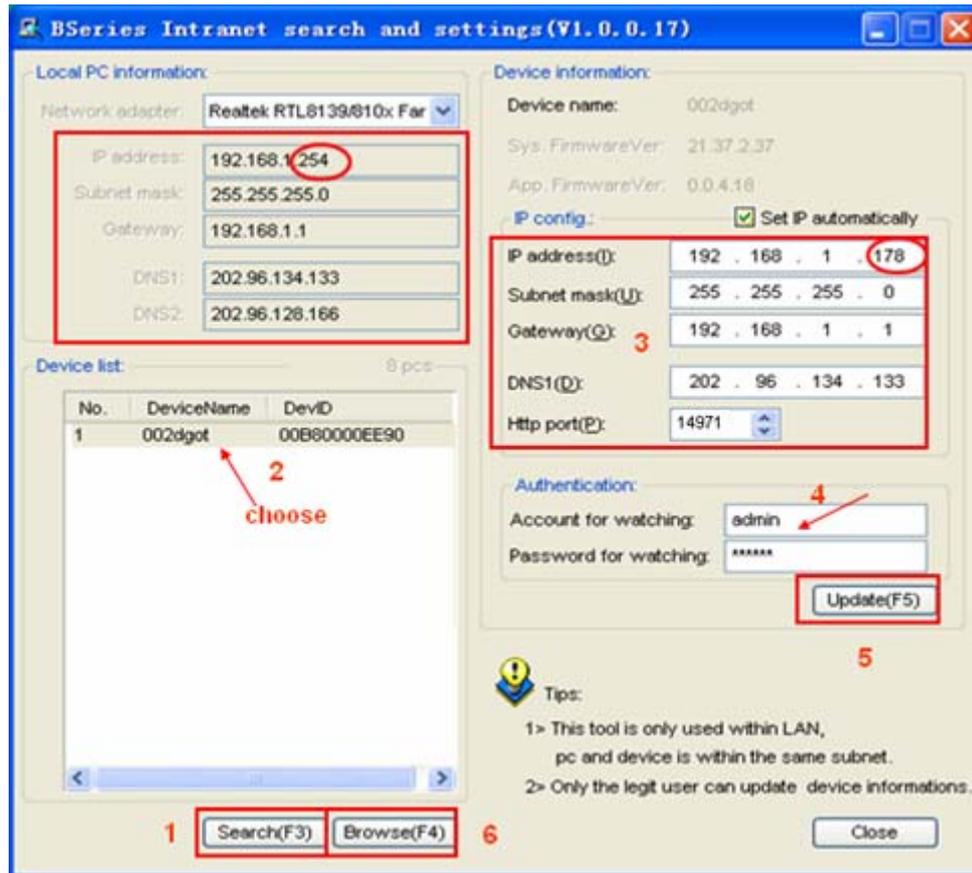


Figure 5

Operation Steps:

- 1) Click "Search (F3)
- 2) Choose the device
- 3) Change the ip address of the camera according to the information in the red frame on the left. The numbers in the red circle should not be the same.
- 4) Put the user name and password into "Authentication" (**By default, the user name is: admin, password is: 123456**).
- 5) Click "Update"
- 6) After successfully update, click "Search (F3)", choose the device and click "Browse (F4)". Then you may view the camera, like figure 6.

NOTE:

- 1) If you don't know how to fill out the content of "IP config", you could also tick the "Set IP automatically" to get the IP address from the router automatically.
- 2) If you have the firewall software in your PC, when you run the BSearch_en.exe, it may pop up a window to say "whether you want to block this program or not", then you should choose not to block.

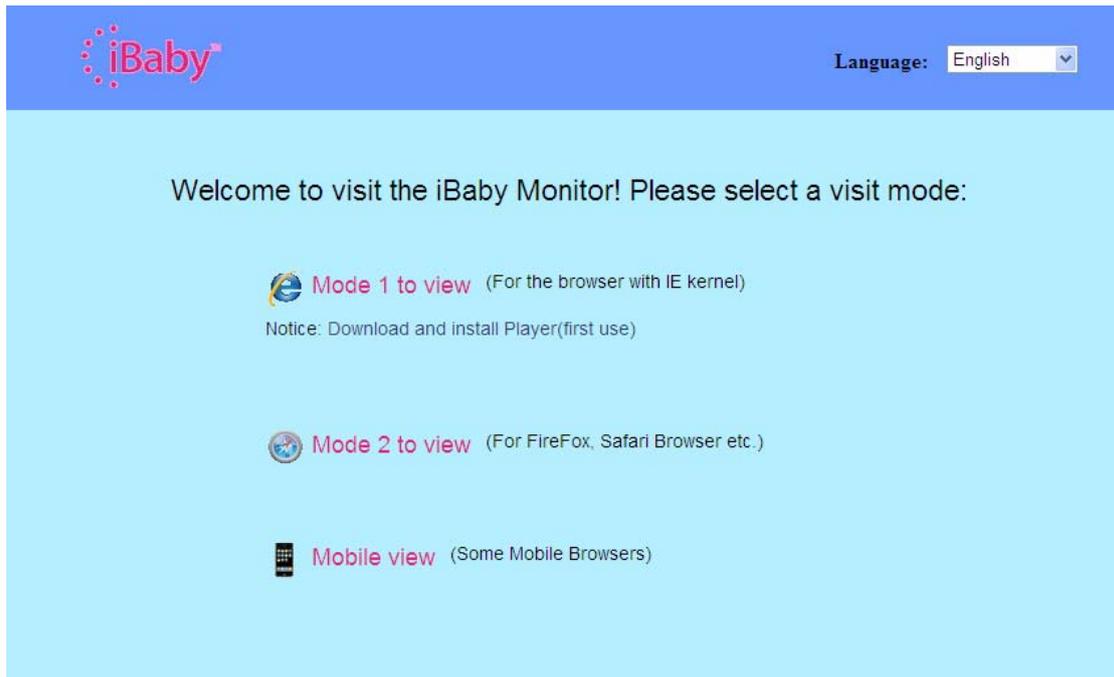


Figure 6

3.4 Visit Camera from a PC

We suggest using IE kernel browser to view the video (it can provide more functions), but user need to install Player before viewing the video. Click “download and install player (first use)” link, it will popup dialogue box as Figure 7, click Run, it will automatically download player and install.



Figure 7

After install the plug-ins, click “Mode 1 to view” link in Figure 6 to view the video (video as Figure 8).



Figure 8

1) Main Menu

The main menu includes the function setting of different submenu

2) Status Displaying Area

In right up corner, it is the status displaying area, to show the 9 devices' status:

- ◆ if not connected, button is gray
- ◆ if connected, button is green
- ◆ If wrong connected , button is yellow
- ◆ If alarm , button is red

3) Multi Channel displaying area

If users add multi channel (refer to 5.3.2) , when shift to 4-Ch, 9-CH, and it will automatically show other devices. You select one device, and you can operate it by these keys: play, stop, and record, control Pan/tilt, etc.



These buttons mean start video, stop, monitor, talk, record and snapshot.

P.S.: If you want to click this button  to record the video, please go to advanced—Other Settings to set the Record Path first. Please see below figure9.

Other Settings	
Status LED Mode	Open Indicator LED <input type="button" value="v"/>
PTZ settings	
PTZ Center on Start	No <input type="button" value="v"/>
Horizon Patrol Rounds	1 <input type="button" value="v"/> (NOTE: 0 means infinity)
Vertical Patrol Rounds	1 <input type="button" value="v"/> (NOTE: 0 means infinity)
Manual PTZ Rate	0 <input type="button" value="v"/>
Auto Horizon Rate	5 <input type="button" value="v"/>
Auto Vertical Rate	5 <input type="button" value="v"/>
Path Set	
Record Path	C:\Documents and Settings\All Users\Documents <input type="button" value="Browse.."/>

Figure 9

4) PT and video control

In Pan/Tilt control area, user can control the position according to the arrow sign: up, down, left, right, middle, horizontal cruise, vertical cruise, and stop etc.



Means open IO output and Close IO output.

User can also set the device frame rate, resolution, brightness, contrast and other parameters.

4 Visit Camera over Internet

4.1 Internet connection



Figure 10

4.2 Port forwarding

Now most router have UPNP, and the UPNP default status is on, so you need not to do the port forwarding. Otherwise, you **must** do port following on the router If visit Camera over internet. Take Netgear router for example.

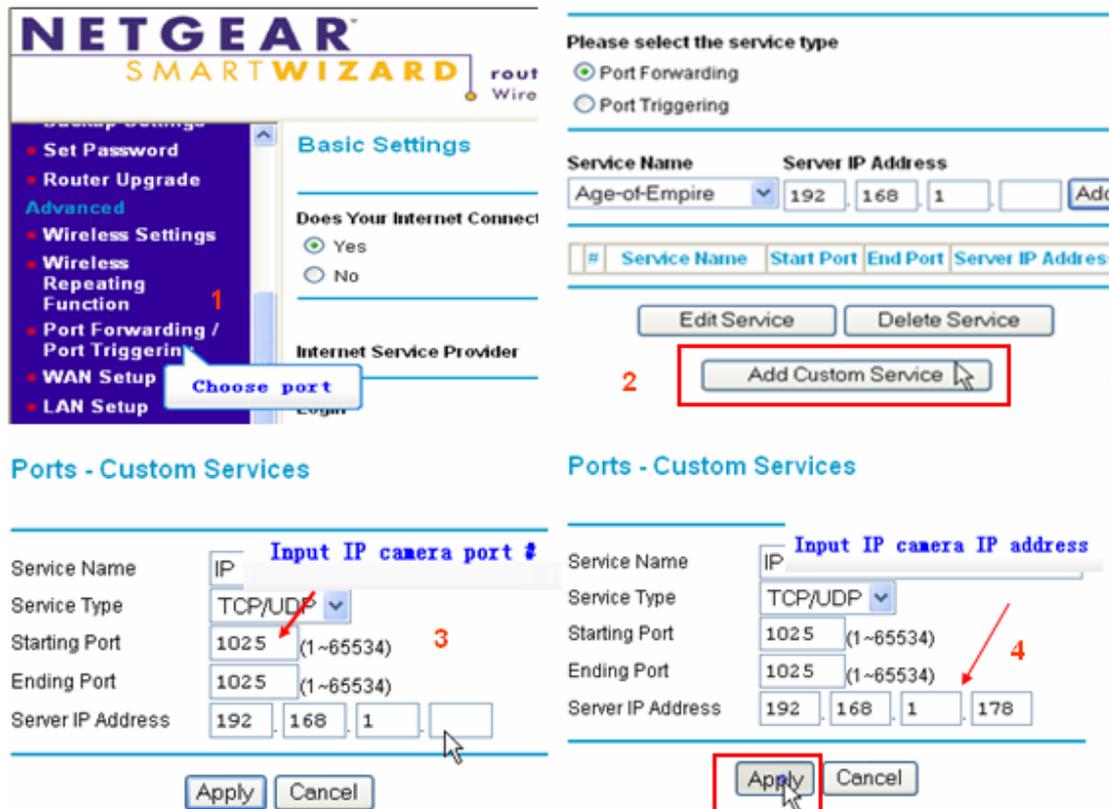


Figure 11

Operation Steps:

- 1) After login the interface of the router, choose "Port Forwarding"
- 2) Choose "Add custom Service"
- 3) Input camera port.
- 4) Input camera IP address, click "Apply". (the http port and ip address should be the same as figure 5 which set by you own)

Note: Different router has different settings for port-forwarding; please kindly follow your router guide to do the port-forwarding.

After the port-forwarding is done, you could view the IP Camera from WAN now.

4.3 DDNS

You could also use the manufacturer DDNS to view the device as long as your port-forwarding succeeds.

4.3.1 Manufacturer's DDNS

Device manufacturer has provided a free DDNS. User can find it in network menu, like figure 12.



Figure 12

4.3.2 Third Party DDNS

User can also use third part DDNS, such as www.3322.org. User must apply a free domain name from this website and fill the info into the below blanks (Figure 13) and save the settings. Then the domain name can be used.

Third Party DDNS	
DDNS Service	3322.org
DDNS User	btest
DDNS Password	••••••••
DDNS Host	btest.3322.org

Figure 13

Note: Using the third party domain name, if the http port is not 80, the port number should be adding to the domain name with colon. Example: <http://btest.3322.org:81>. **While manufacturer DDNS is no need to add PORT.**

5 Other Settings

5.1 Network Setting

5.1.1 Basic Network Setting

The user can also enter the Basic Network Settings to set the IP address except using the search software. See below Figure 14.

Network Settings	
Obtain IP automatically	<input checked="" type="checkbox"/>
Http Port	14971

Figure 14

5.1.2 WIFI Setting

If the device is with WIFI, enter the Wireless LAN Setting, just as below Figure 15 shown, click the “Scan” button, it will show you all the wireless networks detected in the Wireless Network List column. Select one of them and tick “Using Wireless Lan”, then the relevant data of the selected wireless network will be shown in the following blanks. Put in the password and click “Set”, then the WIFI setting is finished.

Wireless Settings	
Wireless Network List	<div style="border: 1px solid black; padding: 2px;"> ChinaNet-TbKR[00255e1e5d08] infra WPA/WPA2-PSK wifi[001e58f37857] infra WPA/WPA2-PSK netview[002586697046] infra WPA/WPA2-PSK </div> <input type="button" value="Scan"/>
Using Wireless Lan	<input checked="" type="checkbox"/>
SSID	wifi
Encryption	WPA2 Personal (AES) ▾
Share Key	8939038200

Figure 15

Note1: When the device is connected both WIFI and wired, it will firstly connect to the wired network, if it can't connect to it, then it will change to connect to the wifi. The IP address and port is the same, either wireless or wired network.

Note2: Before you do the configuration of wireless as shown above; please make sure the device is connected to the network via network cable. After settings succeed, please reboot the device and wireless function takes effect.

5.1.3 ADSL Setting

User could enable the ADSL Dialup according to the below Figure 16 (The ADSL provider will assign the user name and password to you when you apply for ADSL service.) Connect the device directly to the ADSL modem and it is connected to the Internet.

ADSL Settings	
Using ADSL Dialup	<input checked="" type="checkbox"/>
ADSL User	szlgview@163.gd
ADSL Password	••••••••

Figure 16

5.1.4 UPnP Setting

If you enable UPNP, once the IP camera is connected into the LAN, it will communicate with the router in the LAN to do the port-forwarding automatically.

Below Figure 17, tick "Using UPNP to Map Port" and the setting are completed. You could check the UPNP succeeds or not in the interface of System Maintenance.

UPnP Settings	
Using UPnP to Map Port	<input checked="" type="checkbox"/>

Figure 17

Before using UPNP function, please make sure the router's UPNP function has been triggered. Not all the routers support UPNP perfectly. Please test if the router works well

with the equipment, if not, we would suggest you to disable this function and do the port-forwarding manually.

5.1.5 DDNS Setting

Please refer to the content in 4.3.

5.1.6 MSN Setting

MSN Config	
User	<input type="text" value="test1@hotmail.com"/>
Password	<input type="password" value="●●●●●●"/>
MSN Friends List	<input type="text" value="friend1@hotmail.com"/>
	<input type="text"/>

Figure 18

User needs to apply for a MSN account for this device first, for example: test1@hotmail.com. Please put this MSN account and its password as above Figure 18. Then put your MSN account, for example: friend1@hotmail.com, into the 'MSN Friends List. Then on your friend1@hotmail.com MSN list, you can see test1@hotmail.com is online. You just send "url?" to test1@hotmail.com and you will get the WAN ip address of this ip camera. But please make sure test1@hotmail.com and friend1@hotmail.com should be MSN friends before you do the settings.

5.2 Alarm Settings

5.2.1 Alarm Setting

1) Alarm Detect

User can select the motion detection. If there is any motion, it will detect the motion and trigger the alarm. In the motion detect sensibility, the more the figure, and the more sensitive.

As showed in Figure 19, if any external alarm detector is connected, user will be able to tick "Alarm Input Armed". If the external alarm detector is an always on switch alarm, please choose "open". If the external alarm detector is always off switch alarm, please choose "close".

The user can select voice detection, triggering the alarm. The more the figure, and the more sensitive.

Alarm Settings	
Alarm Detect	
Motion Detect Armed	<input checked="" type="checkbox"/> Motion Detect Sensibility 5 ▾
Alarm Input Armed	<input checked="" type="checkbox"/> <input checked="" type="radio"/> Open <input type="radio"/> Close
Sound Alarm Detection	<input checked="" type="checkbox"/> Sound sensitivity 5 ▾
Alarm Action	
IO Linkage on Alarm	<input type="checkbox"/>
Send Mail on Alarm	<input checked="" type="checkbox"/>
Upload Image to FTP	<input type="checkbox"/>
Enable Alarm Server	<input type="checkbox"/>
Scheduler	
<input checked="" type="radio"/> All time <input type="radio"/> Schedule(NOTICE:set the correct 'Device Clock')Device Clock	

Figure 19

2) Alarm Action

All kinds of alarm modes:-

- IO interface for alarm signal output: when relay is switched on, the external alarm will begin to alarm.
- Send alarm info by email.
- Send the site pictures to the FTP server, user can also set the break time between two pictures.
- Send alarm info to the alarm server.

3) Scheduler

Device will trigger alarm in scheduled time. User can set schedule time to be “all the time”. Before you set “Schedule”, please go to Date and Time settings to set the correct time for the item, as shown in figure 20.

eMail Settings	
Sender	sender@sohu.com
Receiver 1	receiver@sohu.com
Receiver 2	
Receiver 3	
Receiver 4	
SMTP Server	smtp.sohu.com
SMTP Port	25
Transport Layer Security Protocol	None <input type="button" value="v"/>
Gmail only support TLS at 465 port and STARTTLS at 25/587 port.	
Need Authentication	<input checked="" type="checkbox"/>
SMTP User	sender
SMTP Password	••••••
<input type="button" value="Test"/> Please set at first, and then test.	
Report Internet IP by Mail	<input type="checkbox"/>

Figure 21

5.2.3 FTP Service Setting

Ftp Settings	
FTP Server	192.168.0.56
FTP Port	21
FTP User	test
FTP Password	•••••
FTP Upload Folder	/test
FTP Mode	PORT <input type="button" value="v"/>
<input type="button" value="Test"/> Please set at first, and then test.	
Upload Image Periodically	<input type="checkbox"/>

Figure 22

When alarming, device will snap and send the image to FTP server, please make sure the FTP setting is correct. Above Figure 22 of FTP setting for your reference, after the setting is finished, click “Test” to test your settings are correct or not.

After correct setting FTP server, you can use “upload Image Periodically” function. Even no alarm, device can also send the snap image to FTP periodically.

In order to use FTP function, user should apply username and password on the FTP

server first. And please apply some storage, and the authority to write and create sub-category into it.

5.2.4 Alarm Server

Alarm server	
Server Address:	192.168.0.78
Server Port:	1000
User Name:	test
Password:	•••••

Figure 23

Please confirm if you have connected to alarm server. The alarm message format as follow:

```
GET /api/alarm.asp?
  username=username&
  userpwd=password&
  rea=alarm type (1=Motion Detection, 2 =Alarm from Alarm in port)&
  io=0
```

Alarm server needs developing by user. User can extend other functions on this server, like SMS, MMS alarm, and mobile phone etc.

5.3 Advanced

5.3.1 User Setting

There are three levels of authority; they are Administrator/Operator/Visitor. Administrator have the highest authority, it can do any change to the settings. Operator account only can operate the IP camera, can't do changes to the settings. Visitor account only can watch the video, can't do any operation to the IP camera. **By default, the administrator's user name is admin, password: 123456.**

Users Settings		
User	Password	Group
admin	•••••	Administrator ▾
user	••••	Operator ▾
guest	•••••	Visitor ▾

Figure 24

5.3.2 Multi Device Setting

Multi-Device Settings	
Device List in Lan	anonymous(192.168.0.247) 002alcl(192.168.0.67) 002abyc(192.168.0.239) 002aqvc(192.168.0.241)
	<input type="button" value="Refresh"/>
The 1st Device	This Device
The 2nd Device	None
The 3rd Device	None
The 4th Device	None
The 5th Device	None
The 6th Device	None
The 7th Device	None
The 8th Device	None
The 9th Device	None
attention: If you want to access the device from internet, be sure the host and port that you set can be accessed from internet.	
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Figure 25

As Figure 25, User can maximum add 9 devices to view the device simultaneously. Click refresh button to check the device in the LAN. When click the device, will popup setting dialogue box and input the device info, as figure 26 and click save. After that, must click submit button to save.

The 2nd Device	None
Alias	<input type="text" value="002alcl"/>
Host	<input type="text" value="192.168.0.67"/>
Http Port	<input type="text" value="80"/>
User	<input type="text" value="admin"/>
Password	<input type="password" value="••••••"/>
<input type="button" value="Save"/> <input type="button" value="Remove"/>	

Figure 26

5.3.3 Other settings

You can choose open or close indicator LED. If set PTZ center on start 'Yes', when start device, Pan/Tilt will move to center and then stop. You can also set the Horizon patrol rounds and vertical patrol rounds, when you click patrol on the 'view' interface, it will round according to your setting rounds. You can also set PTZ rate, 0 means fastest.

Other Settings	
Status LED Mode	Open Indicator LED <input type="button" value="v"/>
PTZ settings	
PTZ Center on Start	No <input type="button" value="v"/>
Horizon Patrol Rounds	1 <input type="button" value="v"/> (NOTE: 0 means infinity)
Vertical Patrol Rounds	1 <input type="button" value="v"/> (NOTE: 0 means infinity)
Manual PTZ Rate	5 <input type="button" value="v"/>
Auto Horizon Rate	5 <input type="button" value="v"/>
Auto Vertical Rate	5 <input type="button" value="v"/>
Path Set	
Record Path	C:\Documents and Settings\All Users\Documents <input type="button" value="Browse.."/>

Figure 27

5.4 Maintain

5.4.1 Device Information

Device Info	
Device ID	107aaaa
Device Firmware Version	21.37.2.41
Device Embedded Web UI Version	0.28.4.19
MAC	00:00:E3:02:0F:01
Alarm Status	None
Third Party DDNS Status	No Action
UPnP Status	No Action
MSN Status	No Action

Figure 28

5.4.2 Time Setting

If the device is connected to the Internet, you enable the NTP server to correct the time and select the right time zone. Or you should use the PC's time to correct its time.

Date & Time Settings	
Device Clock Time	2010 - 3 - 29 20:08:20
Device Clock Timezone	(GMT -08:00) Pacific Standard(USA and Canada) <input type="button" value="v"/>
Sync with NTP Server	<input checked="" type="checkbox"/>
Ntp Server	time.nist.gov <input type="button" value="v"/>
Sync with PC Time	<input type="checkbox"/>

Figure 29

5.4.3 Firmware upgrade

The device runs 2 kinds of programmer, one is system firmware, the other is application firmware. They could be upgraded separately.

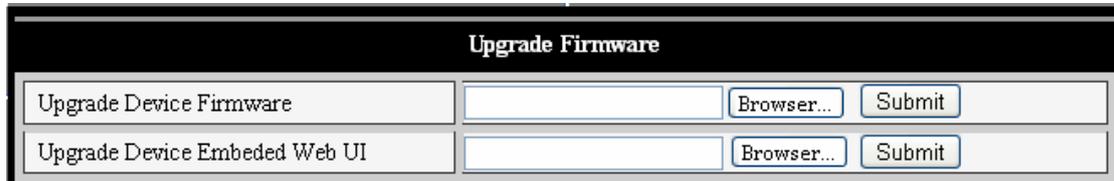


Figure 30

5.4.4 Restore Factory Default

Click "Restore Factory Default", it will pop up a dialogue to confirm if you really want to restore the factory default. After confirmation, the system will restore the factory default and reboot.

5.4.5 User browsing Log

After enter the log interface, you could view who and when the device is visited.

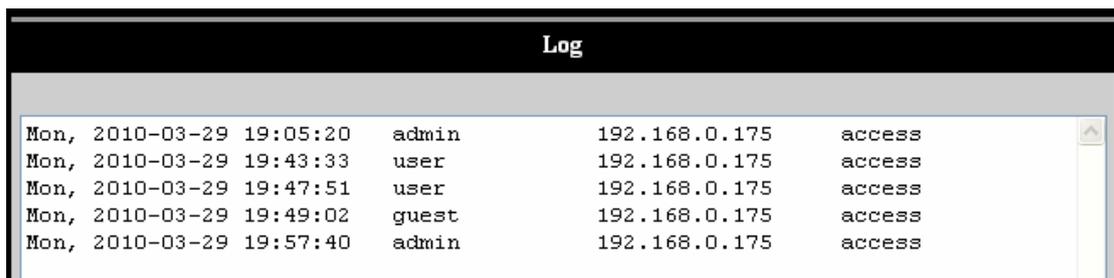


Figure 31

6 Centralization Control

This is a free software offered by factory, several devices on LAN and WAN can be browsed at the same time. The software also supports snap, video record, alarm and so on. The below Figure 32 is the interface.

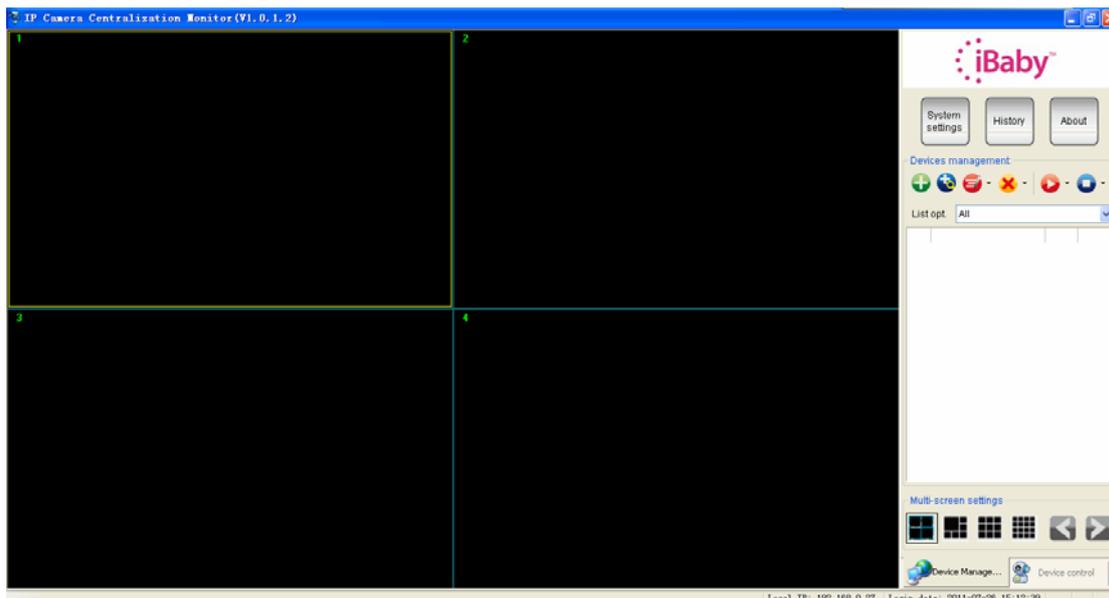


Figure 32

For more information, pls. refer to the <<Monitor User Manual>> in CD.

7 FAQ

1) Unmatched power adapter will damage the equipment or power adapter

When plug in the power adapter, please check carefully the voltage, it should be 5V adapter for this equipment.

2) Slowly browse speed

This equipment adopts MJPEG compression format, it needs large network bandwidth, the narrow bandwidth will affect the browse speed. The typical bandwidth uses situation as below:

640x480@10fps : 4.0 Megabits ~ 5.0 Megabits

320x240@30fps : 1.2 Megabits ~ 1.6 Megabits

3) Color difference

The default is infrared lens, when visit outdoor or strong infrared light scenes, there are color differences, the color is not accordance to the real scenes. User can change it to color lens to solve this problem, but color lens can only use under the daylight situation.

4) Can't find equipment via search software after connect to LAN

Make sure the equipment and PC is in the same LAN; if install firewall software, please close it and try again.

5) Can find equipment via search software, but can't visit

If the IP address of camera and PC is not in the same Network Segment, you should

change them on the same Network Segment before visit. Network Segment is the first three number of IP address. If the IP address of PC is 192.168.0.100, so it can only visit the equipment which IP address is between 192.168.0.1~192.168.0.255.

6) Can visit via public IP address, but can't visit via manufacturer's domain name

Make sure the DNS setting is same as your PC, as below Figure 33, in the search tool, the DNS 1 and DNS 2 on both side should be same.

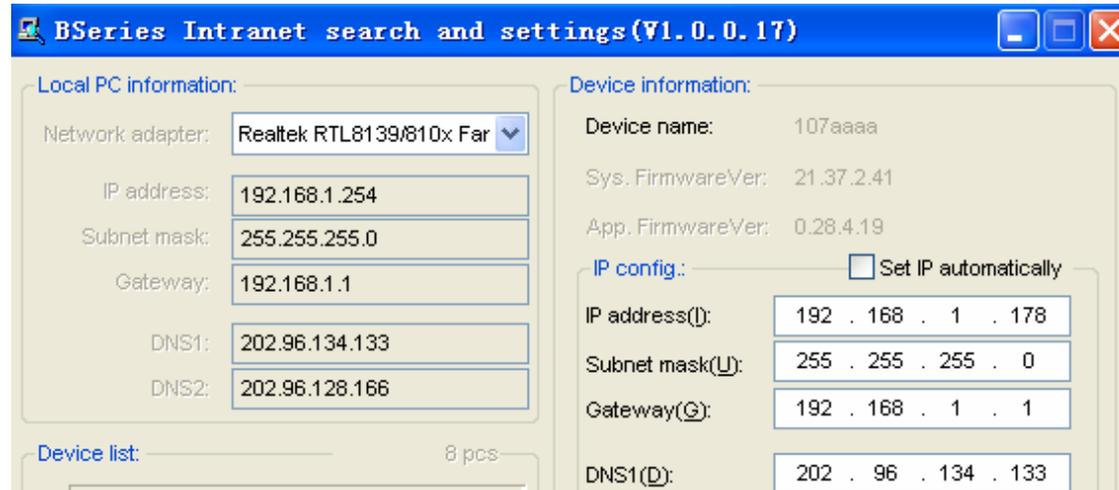


Figure 33

8 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, and
 - (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.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operated in conjunction with any other antenna or transmitter.