# Network IP Camera Instruction Manual

# Model No.: IP-402B Wi-Fi



Chapter 1 Product Introduction . . . . . . . . . . . . . . . . Chapter 2 . . . . . . . . . . . . . . . . Product Installation Search equipment Chapter 3 Chapter 4 Video attribute settings Chapter 5 System Settings options Chapter 6 Network settings System Tools Chapter 7 Chapter 8 ..... Logout

#### **Chapter I Product Introduction**

1.1 Hardware/Software requirements:

To use the computer-camera through networks, the minimum hardware requirements of your computer should be met,

1. Pentium III CPU or better, 1GHz or higher frequency;

2. At least 256M memory;

3. windows xp, 2000 operating system or above

Internet explorer 4.0 browser or above version, IE 6.0 is strongly recommended.

1.2 Product features:

Simple installation: the installation of network cameras is very simple, only power and networks connection are needed. if WIFI wireless connection is used, only power is a must.

Scope of applications: apply to home, offices, enterprises, supermarkets, schools and other public places.

Supporting multiple protocols: Embedded operation system supports the TCP / IP,

SMTP (simple mail protocol), HTTP, UPNP, etc.

Simple configuration: Standard Web browser GUI can help users to control and manage the networking cameras through LAN or Internet.

Video Views and Video Record: Provide concise GUI for user to view real-time images, and the video segments can be recorded on your computer.

Alarm Monitoring: Through external alarm device, the alarm information can be sent to your e-box or your mobile phone.

Support dynamic DDNS: Support Dynamic DNS. Users can access his/her networking cameras easily through DDNS despite of the changed camera IP.

Simple User Authority Management: By setting USER and PASSWORD of the system, user can protect the individual privacy easily, meanwhile, users can be authorized to different permission levels to operate the network camera.

#### **Chapter II installation**

- 2.1 Hardware installation
- 1. Connect the network:

Connect the networking camera to the router or switch.

2. Connect the power

Connect the networking camera with power.

Cautions: Please use the original power adaptor along with the camera; otherwise, it may cause hardware damage.

Check the network indicator light

when power on, the camera starts working. Normally the green indicator of the network cameras is on continuously and yellow light flashes.

2.2 Software Installation

Software installation is very simple, you only need to run ocx.exe and installation can be finished automatically. There are two ways to install software.

- I: CD-ROM installation
- 1. Please put the attached CD into the CD-ROM driver in your PC.
- 2. Double-click ocx.exe and installation can be finished automatically.

Second: Download OCX.exe from the networking camera and install the same

1. When the software is not installed in your PC, meanwhile, the camera is connected to the network, you will be prompted to download and install the control software. You can download the same to any folder you want. After downloading is completed, double-click OCX.exe and automatic installation will be implemented. Downloading OCX.exe from the network camera is widely used in case that installation CD is not available.

#### Chapter III Search equipment and log in to the network camera

1: Make sure the equipment is properly connected with the network and power.

- 2: The router must support DHCP (Dynamic Host Configuration Protocol), because dynamic
- IP addresses obtaining is one of the factory settings of camera.

3: The camera can not be immediately used when power connection is OK, system initialization will cost about 20 seconds.

1: Search Equipment

After software installation, please activate the search tools *ipcamtools.exe*. When GUI comes up, please click "refresh" button. The program will search the network cameras, and displays the searched IP address, port number, equipment ID number and device name. If WIFI wireless connection is in use, it will show the wireless IP address. An example is shown as following figure.

🙆 IPCamTool 1	. 02				
IP 192.168.1.11	WiFi IP 2	Port 80	ID 09-000103	Name IPCamera	Refresh
					Open device
					Net Config
					Clear ARP
<				>	

Note: (ipcamtools.exe is only used to search for the LAN IP addresses and port numbers of the cameras. However, the tool is not able to search IP address of the camera as well as the port number in WAN.

2: Login Network Camera

Dutch English Finnish French 简体中文 繁體中文 日文

U	lser:			
P	assword:	-		
		_		
R	emember Me:			

Click on the "open device" or input the IP into the browser in its address field directly to access the login page (for example: <u>http://192.168.1.92)</u>. As shown

3: user name and password authentication

the default user name and password are both "admin". For the first login, enter your user name (admin), password (admin) and click on the "Login" button to enter the monitor interface, the user name and password are modifiable. For the security issue, it is strongly recommended to change the password in system tools.

After entering the correct user name and password, real-time images is displayed on the monitor screen.



Chapter IV Video attribute settings

Windows:	4
Resolution:	640x480 👻
Mode:	50 HZ 👻
Effect:	Stretch -
OSD	OSD Color
Flip	Mirror
PTZ Flip	PTZ Mirror
Mute	
Connect	DisConnect
Connect All	DisConnect All
Snap	View Snap
StartRecord	View Record
ClearAlarm	ClearAllAlarm
Video Control	

4.1 Function Description:

Window: the window is defined as video window number shown in the video region ,the current maximum of which were 36.

Resolution: the size of the currently selected video. Currently supports two sizes: 640x480 and 320x240.

Mode: set the video light mode, and remove the jitter impact of the image as per the electricity frequency. The following three modes are used: 50HZ/60HZ /outdoor model. Generally, indoor mode use 50Hz or 60Hz, outdoor mode should be set as per the real camera working environment.

Effect: when the video window is greater than the specified video size, two options will be offered, try to show the video window in center or stretch the image to the real size of the window.

Flip: the video upside down.

Mirror: Reverse the video.

Mute: Check to close/open audio.

OSD, OSD color: Display the date/time and the color when displaying.

Connection: When the video camera window specifies IP address, click on this button and video from the connected camera will be displayed. In the opening pages of video surveillance, it will automatically connect the camera and video will come.

Disconnect: Disconnect the video connection, and stop displaying video. If video recording is ongoing, the operation will stop simultaneously.

snap: Photographing and save the photographed image.

View snap: Open image folder to view the pictures.

Start/Stop the video record: Start or stop the video record.

view the video: Open video folder and view the saved video segments.

ClearAlram/ClearAllAlarm: Stop alarm of current channel or all channels.

Video Monitor     Smart Phone     Device Information     Net Config     Alarm Config	SHORE 1992 HIS 1.10		Windows Resolution Moder	640x480 50 HZ	•
• System Tools	000		Effor	Stretch	•
* Logost * Close WebPages	00		E OSD	CSD Col	er Halv
			IZI PTZ Filp	DPTZ M	kner
			Current	Disc	onned
	4		Connect All	DisCo	nnect All
	CH: 3	CH: 4	Binap	Way	и Влар
	Service of the servic	2600.22	StartRecord	View	Record
			ClearAlarm	Clear	AllAlarm
			Video Control		
			0	0 0 0	

Video operation interface is shown as follows:

Description: when the window is selected, the border of the window will become red.

Double-click to select the screen, and the screen automatically changes to full-screen mode.

To return to its original state, please double-click the screen again.

## **Chapter V System Settings Options**

Network camera page setup options are in the far left, when clicking the left arrow, the hidden settings page will be expanded. Click the left arrow, set the options as follows



Functional description of the set-up options:

1: video monitor

For viewing video, in any case you can click on this button to enter the video mode to

watch.

2: Device Information

Display the status information of the device.

Video Monitor	Device Information.		
Device Information	Software Vertion	vs2.1(03.18.2010)	
* Net Config	Hareware Version	een board	
* Alarm Cenfig	Device ID:	10-0307E5	
* System Teols	LAN IP:	192.168.1.102	
* Logout	SubNet Mask:	235,255,255.0	
* Clase WebPages	GateWay:	192.168.1.1	
	DNS Server:	192.168.1.1, 31.1.1.28	
	Device Name	IP-302B IP Camera	
			Save

Note: The device name can be changed:

- 1, User can customize the name of the device in order to distinguish different equipments.
- 2, When the video surveillance equipment connected, the page will show the device and the

name.

3, The search tool can also display the searched device names.

3: Net config: set up network-related parameters.

3.1: IP settings

The set supports two modes of distribution network address:

1, to obtain IP address automatically (DHCP): Select DHCP, device will automatically obtain the IP, which is not fixed (this feature requires the router to support DHCP protocol, and this feature should be activated).

2, using the specified IP address (static IP): To specify the equipment IP, it is required to manually fill in IP address.

Select the required mode, fill in relevant information by the Depositary and click on the "Save" button. This function of equipment need to restart to take effect.

IP Address Type:	Static IP 🗸
IP:	192. 168. 1. 112
SubNet Mask:	255, 255, 255, 0
GateWay:	192.168.1.1
Preferred DNS Server:	202.96.128.86 (Optional)
Second DNS Server:	202.96.128.166 (Optional)

#### 3.2: WiFi config

1, the device supports WiFi wireless capabilities. If user's camera supports wireless networking functions. After setting up WiFi parameters, such as Password, Authentication parameters, please select "Enable" and restart the device. Then, the user will be able to access the network through a wireless network of cameras. (Wireless settings must be in strict accordance with the password authentication method parameters of the wireless router, otherwise, it can not connect wireless network

WiF	i-Router	Channel	Enc	rypt Mode	Signal Intension
1	FAST	6		WEP	att
	QIAO	6		WEP	all
T	P-LINK	6		WEP	att
Inabled:					
SSID:	FAST				
Channel :	6		~		
Encrypt:	WEP		~		
Safety option:	Open		~		
Key format:	Hex		*		
Select key:	1		~		
Key1:				64 Bits	*
Key2:				64 Bits	*
Key3:				64 Bits	*
Key4:				64 Bits	~
	Drmomia TP (DUCP)				

# 3.3: Dynamic DNS

This equipment support dynamic DNS of <u>Www.3322.org</u> and <u>www.dyndns.org</u>. Enter the applied dynamic domain name, user name, password, and click "Save" to access device through WAN.

DDNS Provider:	www.DynDns.org	-	
Dynamic DNS:			
User:			
Password:			
Enabled			

#### 3.4: upnp settings

Upnp is to realize automatic port mapping function. If the camera is connected to a router, In order to access to the cameras through WAN, it is required to open a specified port of the router to the camera. (This feature requires router support, and this feature should be open.

Without this feature, you need to manually set up port mapping in the router). If the uppp enabled successfully, the below figure will be displayed.



#### 3.5: Port Management

This page is used to set the camera's external ports, the default value of 80. If you want to visit the multiple cameras in a same local area network through WAN, in order to distinguish different cameras, each camera needs a different port, such as 81, 82, etc. and so on.



#### Motion detect config

The IP Camera can do motion detect and trigger some action if necessary, such as upload picture to FTP, send email with picture as attachment, or start record automatically.

# IO Alarm

Enable or disable IO alarm at this page.

<ul> <li>Video Monitor</li> </ul>	Contraction of the Contraction o
* Smart Phone	IQ Auria
Device Information	Enable IO Alarm
<ul> <li>Net Config</li> </ul>	
Alarm Config	Enable alarm email notify
* Motion Detect Config	Aliam duration(second) 30
* 10 Alams	Save
* SMTP Config	
* FTP Config	
<ul> <li>System Tools</li> </ul>	
* Logout 4	
Close WebPages	

# SMTP config

Provide email sender information here, which is need for send email when motion detects or

Net Config Alarm Cenfig Motion Detect Config 10 Alarm SMTP Config FTP Config FTP Config System Tools Logent Const	Port(default:25): 25 Account:	
---	----------------------------------	--

# other alarm is occurring.

# FTP config

Fill FTP information here, which is need to upload images to FTP server.

<ul> <li>Video Monitor</li> <li>Smart Phone</li> </ul>	FTP Config	
<ul> <li>Device Information</li> <li>Net Config</li> <li>Alarm Config</li> <li>Motion Detect Config</li> <li>IO Alarm</li> <li>SMTP Config</li> </ul>	FTP Server:	
• FTP Config     • System Tools     • Logout     • Close WebPages	Upload picture Upload interval(second): 60	Save

# Chapter VII of the System Tools

Restart the equipment

When settings changes happen, it is required to restart your device to the changes to take effect, you can click on the page "Reboot Device" to enable the device to restart. Another 20 seconds is needed to finish the device initialization.

Video Minitor	and the second se	
Smart Phone	ACCURATE ACCURATE	
Device Information	Rebord Dwide	
Net Cenfig	In a low Lowe	
Alama Ceofig		
System Tools		
* Rebort Device		
* Reset Centig		
* Time Config		
* System log		
User Coafig		
MultiDevice Config		
* Local County		
* Downlead OCX		
* Language		
* Login method		
* Update Software		
* Update WebPages		
Logost		
Close WebPages		

### 7.2 to restore the factory settings

Click "reset configt" will enable the device to restore all settings to factory default, the default

• Video Macitor	Company
* Smart Phone	
* Device Information	Click this button will reboot device with default factory configuration.
<ul> <li>Net Config</li> </ul>	Reset Config
<ul> <li>Alam Config</li> </ul>	
System Tools	
* Rebost Device	
Reset Config	
* Time Config	
System log	
* User Config	
* MultiDevice Config	
* Local Config	
* Downlead OCX	
* Language	
* Logn method	
Update Software	
* Update WebPages	
• Logout	
* Clase WebPages	

user name and password are both "admin".

Note: The factory default settings using DHCP to obtain IP address. After restoring the factory settings, device IP address may be different from the one before restoration. Please use the search tool to search for equipment. And obtain the corresponding IP.

7.3 User Management

In this page, user permissions management is applied. According to different users name,

different operating authority setting can be configured. Administrator has the privilege to operate all functions of the camera. Ordinary users can only watch the video and control. And visitors can only see the video.

Video Monator	
Seart Phone	DODUDENNE CART
Device Information	
Net Config	Device Address/IPIDDN3/ID) Part User Status Config
Alarm Caufig	80 Eastied Edit Delete Move Up Move Down
System Tools	
* Reboot Device	Add Device
* Reset Config	
* Time Config	
* System log	
* User Config	
MidnDevice Config	
· Lone Centig	
Deveload OCX	
* Language	
Lopin method	
* Update Software	
* Update WebPages	
Logost	
Close WebPages	

The following are the Edit and Modify interface:

* Video Montor	679		
* Smart Phone	CR1		
* Device Information			
+ Net Config	User		
+ Alarm Config	Durnant [		
- System Tools		and there as	
* Reboot Devian	LIVE N	ormai user •	
* Reset Coufig	Stanua: Er	nabled •	
* Tune Config			Save Back
* System log	L.		
* User Centig			
* MultiDevice Config			
* Local Config			
* Doveload OCX			
* Language			
* Legin method			
* Update Software			
* Update WebPages			
* Logout			
* Close WebPages			

Users can be enabled or disabled. The disabled users can't log on equipment page.

Description: user "admin" is the super-administrator user, who can set up and operate all the functionalities of all the networking cameras.

7.4 Multiple Devices Manager

In this page, not only the main video, but also additional device can be connected be automatically.

This page is for the maintenance of additional equipment, create, modify, and delete equipment.

The main equipment is always displayed on the video channel 1 (CH 1), followed by additional equipment.

Additional equipment can be "move up" or " move down" to adjust- its order in the video surveillance page.

Additional equipment can be disabled, and the disabled device will not appear in the video surveillance page



The next figure describe how to add/edit the additional device.

<ul> <li>Video Manitor</li> </ul>
* Smart Phone
<ul> <li>Device Information.</li> </ul>
* Net Centig
* Alarm Config
<ul> <li>System Locis</li> </ul>
* Rebort Device
* Reset Config
* Time Config
* System log
* User Coafig
<ul> <li>MultiDevice Config</li> </ul>
* Local Config
<ul> <li>Downlead OCX</li> </ul>
• Language
* Login method
* Update Seitware
* Update WebPages
* Logost
* Close WebPares

Device Address(IP/DDNS/ID):	192 168 1 123
Pert:	80
Uter:	admin
Password:	*****
Stavus	Enabled ·
	Save

7.5 Local configuration

To set video recording and photographing saving directory, it is required to input save path in "captured photo file" and "video record file".

Video Monitor     Smart Phone	Local Config	
Device Information	Snap Directory:	
* Net Coufig	Record Directory:	
+ Alarm Config	Contraction of the	
- System Tools		Save
* Rebast Device		
* Reset Config		
* Time Centig		
* System log		
* User Config		
<ul> <li>MultiDevice Config</li> </ul>		
<ul> <li>Local Config</li> </ul>		
* Downlead OCX		
* Language		
* Login method		
<ul> <li>Update Software</li> </ul>		
* Update WebPages		
* Logoot		
* Close WebPages		

# 7.6 Download Ocx control

Clicking on the link in this page is available for download ocx control.

<ul> <li>Video Monitor</li> </ul>	
Smart Phone	Download OCX
Device Information	Download OCX
+ Net Config	
+ Alarm Config	
<ul> <li>System Tools</li> </ul>	
<ul> <li>Reboot Device</li> </ul>	
<ul> <li>Reset Config</li> </ul>	
<ul> <li>Time Config</li> </ul>	
System log	
<ul> <li>User Config</li> </ul>	
<ul> <li>MultiDevice Config</li> </ul>	
<ul> <li>Local Config</li> </ul>	
<ul> <li>Download OCX</li> </ul>	
<ul> <li>Language</li> </ul>	
<ul> <li>Login method</li> </ul>	
<ul> <li>Update Software</li> </ul>	
<ul> <li>Update WebPages</li> </ul>	
* Logout	
Close WebPages	

# 7.7 Update Software

Updating software is to enable users to use the latest software. The upgrade file name is *app.bin*, Click button "Browse" to find out the path where app.bin is stored. You can click to upgrade, the system will show the upgrading files progress, success information will be

prompted if upgrading successfully. The new networking camera must be restarted to take the new program effect.

<ul> <li>Video Monitor</li> </ul>	Lindata Software
* Smart Phone	Oprate Software
Device Information	File: 浏览
+ Net Config	
+ Alarm Config	Notice:  Please select correct his file
- System Tools	app.bin for software upgrade.
Reboot Device	www.bin for webpages upgrade.
* Reset Config	It will take a few minutes, please keep power on, otherwise the device may be damaged.
* Time Config	<ul> <li>After finished upgrading, the device will reboot automatically. You maybe need research this during</li> </ul>
System log	this device.
* User Config	
<ul> <li>MultiDevice Config</li> </ul>	Upgrade
<ul> <li>Local Config</li> </ul>	
* Download OCX	
* Language	
* Login method	
Update Software	
Update WebPages	
* Logout	
Close WebPages	

### 7.8 update the webpages

Updating web page is mainly to upgrade the appearance of web pages, file name for upgrading www.bin, Click button "Browse" to find out the path where www.bin is stored. You can click to upgrade, the system will show the upgrading files progress, success information will be prompted if upgrading successfully. The new networking camera must be restarted to take the new program effect.



# Chapter VIII Logout

Logging out from the current registry, it will return to the login page. Login must be accomplished again if the user wants to operate the equipment again.