

# WATERPROOF IR IP CAMERA

## USER MANUAL

### 1. Installation

#### 1.2 Connection

- First, please ensure all the equipment is disconnected with power supply;
- Ethernet cable: Connect the equipment with hub/switch by category-five straight-through cable with standard RJ-45 interface, or connect with PC directly by cross-over cable.
- Please ensure that the AC Adaptor matches with the electricity (Input: AC 110V or 220V, Output: 5V DC/2A, anode inside, cathode outside) and connect the camera with power supply.

#### 1.3 Assign IP Address

Attention before acquiring IP address:

- ▲ Please ensure the equipment is connected with power supply and the network is correctly connected;
- ▲ Please ensure the LAN or PC supports DHCP (Dynamic Host Configuration Protocol). Otherwise, the cameras cannot be found (you can operate under the guideline of dialogue box).

Provided with the product, there is a CD which includes an installation program IPCamSetup, whose function is as below:

- video browsing control setup program, which can be downloaded by the camera directly;
- IP searching program, which can search and get the IP address of the installed camera.
- IPCamSetup;

A. double-click IPCamSetup and install following the instructions;

B. an icon IP Camera Tool appears on the desktop upon completion of the installation;

C. double-click the above icon and a dialogue box appears: the IP address of the camera will appear after several seconds later.



D. double-click the camera you want to browse and enter the login page.

- Question 1: Please do as follows if the camera doesn't share the same subnet with your PC.



Click the address on the left button to choose and click the right button choosing "network settings":



However, if the LAN or PC doesn't support DHCP (assign dynamic IP), please don't choose "Using DHCP". And then you can set the IP address of the camera according to the network segment of LAN or PC. But it cannot be the same as other cameras or PC within the network (the first three data must be the same, so does the subnet mask). The port setting can only be changed in the page below.



While the LAN or PC supports DHCP (assign dynamic IP), you can choose "Using Dhcp".



- Question 2: Software upgrade

Upgrade the system and application software. For application software, the upgrading is mainly about the changes of operating interface.



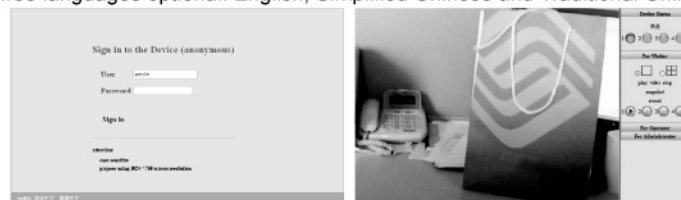
## 2 Home Page

### 2.1. Video Monitoring Home Page

Input the URL (for example, http://192.168.0.218) or enter the home page by searching program mentioned above.

Input the user name and password (user: admin; no password). Click "Sign in" and enter the monitoring page (supports 20 users simultaneously at most).

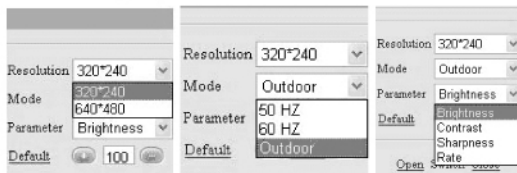
Three languages optional: English, Simplified Chinese and Traditional Chinese.



Attention: If no image appears, you need to set your IE browser\ Tool\ Internet property\ Security\ Custom level as below and enable unsigned ActiveX controls.



## 2.2. Control Area (For Operator) Description of monitoring page



Resolution: VGA (640 X 480) / QVGA(320 X 240)

Working environment mode: 50Hz/60Hz/Outdoor

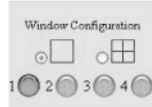
Image color parameters: Brightness, Contrast, Sharpness, Rate



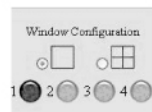
Exterior control: exterior I/O output control  
Video: video control  
Record: video record  
Snapshot: image capture

One image screen: change and add camera at one screen.

The green button indicates the camera is connected successfully and can display normally, while the grey button indicates connection is disabled.



The red button indicates alarm of the camera (motion detection or I/O alarm triggered).



Change the image to another camera: Enter the administrator management page and click "Multi-Device Settings". Click "Set" and the present image will be refreshed to the image of another camera. (If the camera is connected to Ethernet, please input the domain name or IP of the camera in "Host". But if the port of the camera isn't 80, then please input the correct port. The default user is "admin" and the camera should allow visiting from Ethernet.) For example, input ADSL dynamic IP: 202.32.56.8: 86 or dynamic domain name: bvideo.vicp.net: 82.

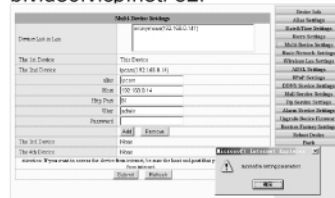


Figure 2.1 Refresh image



Figure 2.2 New image of another camera

Four images screen: Switch single image to four images to change and add cameras, please click button "4" and it will display the monitoring images of four cameras.

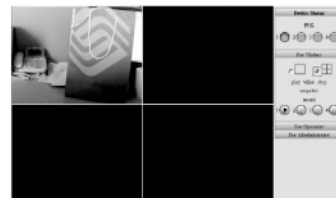


Figure 2.3 Four images window

Add new cameras: Click the "Multi-Device Settings" and click "Set". The present image will be refreshed to the image of another camera. (If the camera is connected to Ethernet, please input the domain name or IP of the camera in "Host". But if the port of the camera isn't 80, then please input the correct port. The default user is "admin" and the camera should allow visiting from Ethernet.)



Figure3.4 Add new cameras

## For Administrator

Click "For Administrator" and it will enter the management page as follows:

Device Info	
Device ID	0004082210
Firmware Version	1.1.1
Device Model	0112

Device Info: it shows the information of the camera.

## Alias Settings

Alias Settings	
alias	anonymous
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

alias: choose a name for your camera;

## Users Settings

User Settings		
User	Password	Group
admin		Viewer
		Viewer
		Viewer
		Viewer
		Viewer
		Viewer
		Viewer
		Viewer
		Viewer
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>		

User: choose a name as you recognize for login;

Password: choose a password for login. Please do remember it or take it down.

## Basic Network setting:

Basic Network Settings	
Obtain IP from DHCP Server	<input type="checkbox"/>
IP Addr	192.168.0.141
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
DNS Server	202.96.134.133
Http Port	80
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

## Alarm Service Settings:

Click "Alarm Service Setting" and it will enter the page below:

Alarm Service Settings	
Motion Detect Armed	<input type="checkbox"/>
Alarm Input Armed	<input type="checkbox"/>
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Motion Detect Armed: Moving objects trigger alarm;

Alarm Input Armed: Alarming signal input triggers alarm;

DDNS Service Settings: the network setting should be effective and the gateway or router within LAN needs to map the port or choose "Auto Map Port by UPNP".

DDNS Service Settings	
DDNS Service	DynDns.org/dyndns
DDNS User	oray
DDNS Password	DynDns.org/dyndns
DDNS Host	DynDns.org/oray
DDNS Status	No Action
Re-Update (ignoring all errors)	<input type="checkbox"/> none so that when your hostname has been selected
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

DDNS server is embedded in the camera to resolve the problem of dynamic IP address. Users need to login and register at specified website before they can use it normally, for instance, <http://www.oray.net>.

DDNS Service Settings	
DDNS Service	DynDns.org/dyndns
DDNS User	oray
DDNS Password	*****
DDNS Host	No Action
DDNS Status	No Action
Re-Update (ignoring all errors)	<input type="checkbox"/> none so that when your hostname has been selected
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

## Mail Service Settings:

Sender and Receiver: input reliable e-mail addresses to send and receive pictures when alarm triggered;

Mail Service Settings	
Sender	665555555@163.com
Receiver	665555555@163.com
SMTP Server	smtp.163.com
Need Authentication	<input checked="" type="checkbox"/>
SMTP User	665555555
SMTP Password	*****
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

## Wireless Lan setting(The turning on network enters the establishment)

Wireless Lan Settings	
Using Wireless Lan	<input checked="" type="checkbox"/>
SSID	*****
Channel	1
Security Mode	WEP
Authentication	Open System
Key 1	
Key 2	
Key 3	
Key 4	
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

If the wireless router doesn't use encryption, the "Encryption" should be "None";  
If the wireless router uses encryption, please choose "WEP" encryption and fill in the parameters according to the settings of the router.

Wireless Lan Settings	
Using Wireless Lan	<input checked="" type="checkbox"/>
SSID	NETCAM
Channel	1
Security Mode	WEP
Authentication	Open System
Key 1	12345678
Key 2	
Key 3	
Key 4	
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

### 3、Specifications

#### WIFI Specifications

IMAGE FORMAT	M-JPEG STANDARD
IMAGE DPI	VGA (640x480) / QVGA(320x240)
IMAGE SENSOR	CMOS, COLORFUL, 1/4"
NETWORK INTERFACE	RJ-45/10-100 Base T, IEEE802.b/g
NETWORK agreement	TCP/IP, DHCP, SMTP, HTTP, DDNS, UPNP,ICMP,FTP,DDNS,DNS,UDP
MAXIMUM FRAME RATE	30fps (QVGA) , 15fps (VGA)
MOTIONS DETECTING	SUPPORT
SOFTWARE UPGRADE	SYSTEMATIC SOFTWARE & WEB PAGE UPGRADE
MONITOR WAY	IE EXPLORER
REPLAY METHOD	MICROSOFT MEDIA PLAYER
OUTPUT DRIVE	1 ROUTE (5VDC, 2A)
TRIGGER INPUT	1 ROUTE (CLOSE TRIGGER)
MINIMUM ILLUMINATION	0Lux@850nm
Waterproof	P66
IR-LED Effective Distance	15 Meters
AUTO WHITE BALANCE	SUPPORT
WORK ENVIORNMENT	0 - 50C°, 20% - 80%RH
POWER SUPPLY	EXTERIOR POWER (PS-D): 110-220VAC/5VDC, 2A
POWER COMSUMPTION	3W
DIMENSIONS	175mm*70mm*82mm
WEIGHT	0.6Kg

#### Main Specifications

IMAGE FORMAT	M-JPEG STANDARD
IMAGE DPI	VGA (640x480) / QVGA(320x240)
IMAGE SENSOR	CMOS, COLORFUL, 1/4"
NETWORK INTERFACE	RJ-45/10-100 Base T
NETWORK agreement	TCP/IP, DHCP, SMTP, HTTP, DDNS, UPNP,ICMP
MAXIMUM FRAME RATE	30fps (QVGA) , 15fps (VGA)
MOTIONS DETECTING	SUPPORT
SOFTWARE UPGRADE	SYSTEMATIC SOFTWARE & WEB PAGE UPGRADE
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### 4、Appendix

#### 4.1 Restore factory settings

Under some condition, users can restore the default factory settings through web. However, when users cannot operate through web page, they may restore default factory settings as follows:

- Turn off the power supply and click reset and turn on the power. All the parameters will be restored to factory settings when the green LED flashes several seconds later (users may push the restoring button at the bottom by a small stick).

#### 4.2 Trouble Shooting

##### 1. Cameras cannot be found by searching program

- Check the physical connection is correct or not. If the cameras are connected with PC directly, cross-over cable must be used.

##### 2. Website cannot be opened

- PC and the cameras are at different net segment, or subnet mask, or the IP addresses of the cameras conflict. For IP address of PC, it can't be set as "get IP automatically".

##### 3. Website can be viewed but without images

- Controls are not installed. Check the security level setting is correct or not.

##### 4. Images cannot be viewed from remote.

- Check the local gateway or router settings are correct or not, which include port, IP address mapping.
- Controls are not well installed. Check the security level setting is correct or not.
- The firewall has some restrictions with cameras