wanscam

Wireless/Wired Network IP Camera

Night Vision & Remote Operation

User Manual

Thank you for buying our IP camera

Wanscam AJ Series IP Camera products are designed and equipped for local and remote network video surveillance system, including wired IP bullet camera, wireless IP bullet camera, IP IR dome camera, IP IR waterproof camera, IP Pan/Tilt/Zoom Camera etc. We adopt high performance chip to ensure high quality media processor which processes audio and video collection, compression and transmission. Standard M-JPEG compression format ensures clear and streaming video performance. It enables users to view live video via IE6.0, IE7.0, IE8.0, Firefox, Google browser or other standard browser.

Wanscam AJ series IP Camera products are applicable for big, medium-sized and small enterprises, chain store, factory, home and all kinds of spots where remote network video transmission and control supposed to be installed, they are easy to be installed and operated. Before the installation of the IP camera, please check if your product accessories in the package are complete

Packing List

Untie the pack and check the items contained against the following list:

```
•IP Camera X1
```

- •Wi-Fi Antenna X1 (only available for wireless model)
- •Warranty Card X1
- •DC Power Supply X1
- •CD X1
- •Certificate of Quality X1
- Mounting bracket X1

NOTE: Please contact us immediately if anything damaged or short of contents.

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1. Product Introduction

1.1 Safety Instructions

(1). Use the proper power source.

Do not use this product with a power source that supplies more than the specified Voltage (100-240V AC).

(2). Never insert anything metallic into the camera.

Inserting metal object into the camera can be a source of dangerous electric shock.

(3). Do not operate in wet or dusty environment.

Avoid places like a damp basement or dusty hallway.

(4). Do not attempt to disassemble the camera.

You may be subjected to severe electrical shock if you attempt to take apart the camera while the camera is connected to its power source. If there are any unusual sounds or smells coming form the camera, unplug it immediately and contact Customer Service.

(5). Handle the camera carefully

Dropping the camera on any hard surface may cause a malfunction. If the camera does not work properly due to physical damage, please contact Customer Service for repair or exchange.

(6). Apply to FCC and CE Rule

This device complies with part 15 of the FCC and CE 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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment complies with FCC and CE radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

1.2. Product Specifications

*- Adopt high Performance, strong function media processor 32Bit RSIC

- *- High sensor CMOS
- *-Adopt optimized MJPEG video compression algorithm, realize high-definition images transmission in narrow bandwidth;

*-Maximum support 15 users viewing at the same time, no limit for users if using forwarder Server function;

- *- Built in Web Server, convenient for users to use standard browse to realize the real time monitoring and setting administration;
- *-Support WIFI: 802.11b/g wireless networking;
- *-Support remote system update;
- *-Support DDNS analysis, support LAN & Internet (ADSL,Cable Modem)
- *-Support variety of network protocol: TCP/IP, UDP, SMTP, PPPoE, Dynamic DNS, DNS Client, SNTP, BOOTP, DHCP, FTP, SNMP, WIFI/802. 11b/g
- *-Parts of modes products support one/ two way audio, talkback;
- *-Support motion detection alarm function (area & sensitivity Configurable);
- *-Support image snapshot
- *-Abnormal automatic recovery function, auto reconnection available when network Interruption occurred.
- *-Dynamic alarm function, alarm time-schedule configurable.

CPU: 2.06GHZ or above Memory: 256M or above Network Card: 10M or above Display Card: 64M or above Operating System: Windows XP/Vista/Windows 7 (32 bit) Hard Disk Drive: No Maximum Storage Requirement Internet Explorer: Version 5.0 or above DirectX: Version 8.0 or above PC must have microphone and speaker connected and Audio Card: configured for 2-Way audio play. TCP/IP, UDP, SMTP, PPPoE, Dynamic DNS, DNS Client, SNTP, Network Protocol: BOOTP, FTP, SNMP, Wifi (802.11 b/g)

1.3. System Requirements

1.4. Product Views

1.4.1 Front View







Interface of C118

Interface of Waterproof Series Cameras



1: Audio Out, 2: Audio In

1.4.2 Interface View

3: Ethernet interface: RJ-45 interface. Power Supply Light: constant on after power up Network light: constant sparkle after power up data transmission. 4: Antenna:

5: Power input interface: connect direct current 5V Power

1.5 Hardware Installation

Follow the steps below to set up your camera hardware. Make sure to follow each step carefully to ensure that the camera operates properly

1. Install the Wi-Fi antenna (For wireless model) .

2. Plug the power adaptor into camera

3. Plug the network cable into camera, the other side to the router/switch

4. It takes approx 30 seconds to boot up the camera, then you will find the IP address from "Search Tool" (Figure: 1.8)

5. When the power on and network cable connected, the green led of the real panel will keep on, The yellow led will keep flash.

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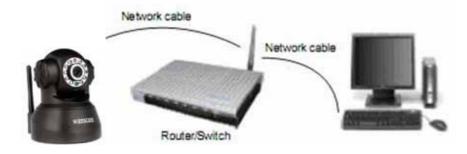


Figure 1.3

1.6 Software Installation



Figure 1.4

Open the CD Install the follow software:

- 1. ActiveX: Click "OCX setup"—"Next"—"Install"—"Finish".
- Search Tool: Open the CD, click search Tool ,The Search Tool will run automatically.(No need to install. You can copy this software to your desktop.)



Figure 1.5

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2. Software operation

2.1 Search Tool Software

2.1.1 Search the IP address of the camera.

When the device has been mounted properly, you can double click the lcon

Search Tool " run this IP address search tool.

Current Computer		Equipment Information	n	
Network Card:	Atheros AR8132 PCI-E F. 💌	General Others		
IP:	192.168.1.213			
Sub Mask:	255.255.255.0	Name:		
Gateway:	192.168.1.1	HTTP Port:	99	
Primary DN5:	216.146.35.35			
Secondary DNS:	216.146.36.36	IP :	192.168.1.99	
	Update	Sub Mask:	255 . 255 . 255 . 0	
Equipments		Gateway:	192.168.1.1	
Mode Name	TIP 1		Custom Auto	
AJ AJ	192.168.1.81 192.168.1.99	Primary DNS:	192.168.1.1	
AJ ipcam	192.168.1.248	Secondary DNSt	,	
		Inner access:	http://192.168.1.99;99 Ope	n
			Check Ope	in l
Count:3	Export			20

Figure 2.1

Note: The software searches IP Servers automatically over LAN. There are 2 cases:

1. No IP Cameras found within LAN. After about 1 minute search, the Equipments List Field not show the IP address.

2. IP Cameras have been installed within LAN. All the IP Cameras will be listed and the total number is displayed in the Equipments list field as shown in Figure 2.1

Note :

1. Current Computer indicates the Computer's IP Address information.

2. Equipment information indicates the IP camera's IP Address information.

3. If you find that the camera's "Subnet Mask", "Gateway", "DNS Server" is not as some as your current computer's. You need try to change the camra's IP address. Make sure the "Subnet Mask", "Gateway", "DNS Server" is the same as your router's or your current computer's.

4. If you don't know how to configure your camera's IP address. You can click " Update" button. The Search Tool software can help you configure a usable IP camera automatically.

2.1.2 Configuration of the Network

Once your camera's IP address' **Subnet Mask, Gateway, DNS Server** is the same as your PC or router, you need configure the camera's Network parameter manually.

IP address: Fill in the IP address assigned and make sure it is in the same subnet as the **Gateway**, and the subnet should be the same as your computer or router. (i.e. the first three sections are the same)

Subnet Mask: The default subnet mask of the equipment is: 255.255.255.0. You can find the subnet mask from your PC or router.

Gateway: Make sure it is in the same subnet with PC's IP address .Here gateway is the LAN IP of your router.

Primary DNS: IP address of IPS network provider. You can also set it as the same as the Gateway.

NOTE: You can find out the **Subnet Mask**, **Gateway**, **Primary DNS** of your PC from the "Search Tool" software.

Http Port: LAN port assigned for the equipment, default is 99. You can change the port number to any one you want such as : 98,211,9999 etc.

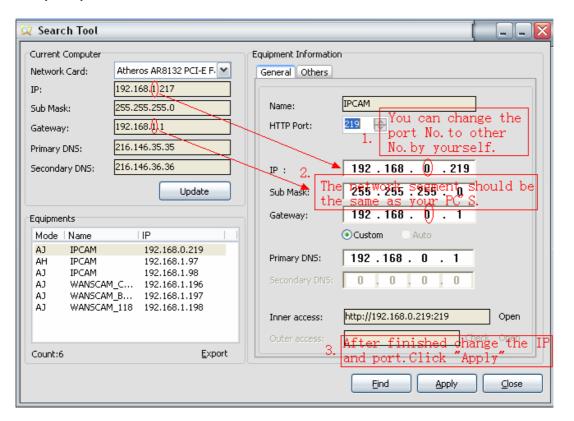


Figure 2.2

3: Real-time Video Demonstration.

3.1. Camera Login:

You can access the camera through IP Camera Tool or IE, Firefox, Safari, Google Chrome or other standard browser directly.

- 1. Double click the IP address of the IP Camera listed (Figure 2.1). The default browser you use will run automatically and come to the camera login interface. (Figure 3.1)
- **2.** To access the camera by IE Browser directly, just type the camera's IP address, for example, if the camera's IP address is 192.168.1.99:99:

	and Anna	
requesting that your useiname and p ner (basic authentication without a s terme	password be	
	is requesting that your usemame and	tested

Figure 3.1

Default username: admin Password: no password.

Input the correct user name and password, the Sign In interface will pop-up. There are three models to login (figure 3.2).

glish Spanish Deutsch French Italian 简体中文 繁體中文
ActiveX Mode (For IE Browser)
Sign in 🔶 Click Here, visit via IE browser
Server Push Mode (For FireFox, Google Browser)
Sign in Click Here, Visit via Safari,
Firefox, Google Chrome browser.
Snap Motion Mode (For CellPhone Browser)
Sign in — Click here, visit via smart phone.
attention:
propose using 1024 * 768 screen resolution

Figure 3.2

- (1) Active Mode (For IE Browser): available in IE6.0 or above explorer
- (2) "Server Push Mode": available in Firefox, Safari, and Google Chrome browser.
- (3) "Snap Motion Mode": available in Mobile phone

3.2. View via IE Browser.

Choose Active Mode (For IE Browser), and sign in. The first time login the camera, maybe get ActiveX prompt as the picture above, please click the prompt and choose Run Add-on, refresh and login the camera again, then will see live video, details as below:

🖉 Net Viewer D6 Series Wel	b-Program - Windows Inter	rnet Explorer		
(3) - E http://192.168	3.3.21/	V 4 X Live Search		P -
🚖 🏟 🏾 🏉 Net Viewer D6 Seri	es Web-Program		🖶 🔹 🔂 Page 🔹 🔘 Tools	• »
This website wants to run the for add-on and want to allow it to run		' from 'Unknown publisher'. If y	ou trust the website and the	×
×	dar uniender einer hig zue		Run ActiveX Control What's the Risk?	-
-			More information	
				'
🕖 Done		👍 🌒 Internet	a 100%	•

Figure 3.3 Windows XP system

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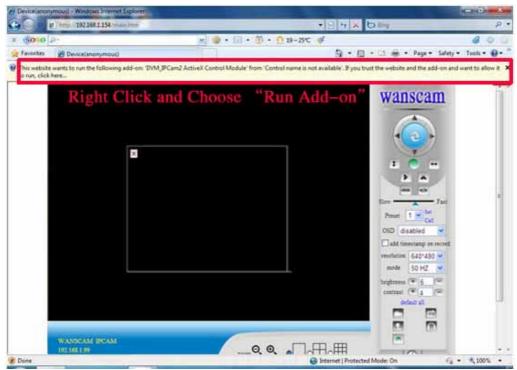
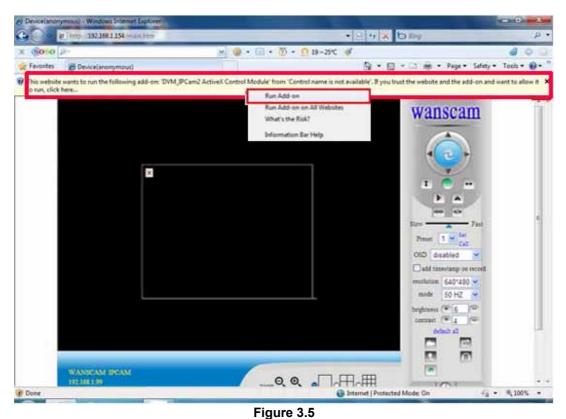


Figure 3.4 Win7 System



Note: If there is still no live video after run ActiveX, please try to enable the ActiveX options of IE security settings, please do the follow steps:

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1. Close the firewall of your computer.

2. Change the ActiveX settings, "IE" browser > "Tool" > "Internet Options" > "Security"> "Custom Level" > "ActiveX control and Plug-ins", all the ActiveX options set to be "Enable": Especially:

Enable: Download unsigned ActiveX controls Enable: Initialize and script ActiveX controls not marked as safe Enable: Run ActiveX controls and plu-ins

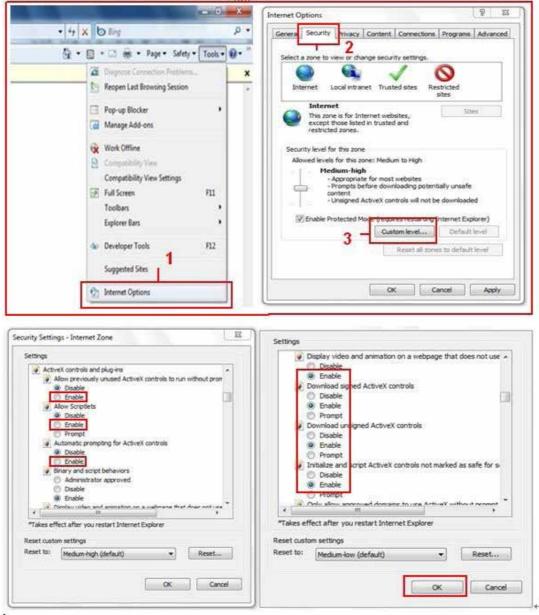


Figure 3.6

In Addition: you can also click "start" menu->"Internet Explorer", choose "Internet attributes " to enter, or via "Control Panel" ->"Internet Explorer", enter to Security setting. 3. If there is still no image, please close your anti-virus software, and then try step 1 & 2 again.

4. If you allowed the Active X running, But still could not see live video, Only a Red

Cross in the center of the video, And the device status light change to yellow color, not green please change another port number to try, Don't use port 80, usd other port such as99, 199 etc.

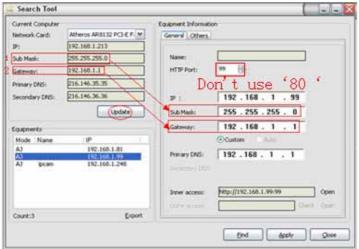


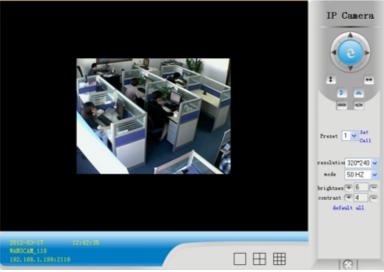
Figure 3.7

NOTE: Make sure that the firewall or anti-virus software doesn't block the software or ActiveX. If you couldn't see live video, please close your firewall or anti-virus software, and try again.

3.3. View via Safari, Firefox, Google Browser

Choose Server Push Mode (For Safari, Firefox, Google Browser), and sign in Server Push Mode doesn't support ActiveX, so some functions are not available, such As Record, Audio, Talk, Speaker,The speed control bar, Zoom etc.),if you want to use these functions, please use IE Browser.

The Control Interface in this mode is as bellow:



3.4. Main Menu interface introduction

Take the "Active Mode(For IE Browser)" For example:



Figure 3.8



↔

≽

Slow

• Make the camera back to the center Pan right and left Tilt up and down

The Pan/Tilt Feature only work

when the cameras have this Pan/Tilt function.

This option enables log detection. After the online user clicks this button, a log is entered into the camera's Log Data documenting the IP address of users who have accessed the IP camera. This Option enables alarm detections too.

- This button make the camera Vertical cruise (for the Pan/Tilt Cams).
 - This button make the camera Level cruise (for the Pan/Tilt Cams).
 - This button flips the image vertically.
- This button flips the image horizontally.
 - This button for turn on and turn off the IR LED Light.

Fast Control the speed of the Pan/tilt. Only work for the Pan/tilt Cams.

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Set 1 to Set				
Preset 1 Call This button for setting the Preset of the camera. Only work for Pan/tilt				
Cams				
DSD disabled Y This setting changes the color of the OSD lettering.				
resolution 640*480 Y This setting changes the image resolution.				
node 50 HZ Y This setting changes the image frequency.				
ontrast + 6 This setting changes the image brightness. This setting changes the image contrast.				
lefault all This option resets all main menu options to factory default.				
This option opens the camera's recording functionality menu.				
This option takes a snapshot of the current screen and saves the snapshot to the C's Hard Drive.				
C S Haru Drive.				
This option enables User-to Camera audio. If the online user				
This option enables Camera-to-User audio. If the online user has speakers connected and configured to their PC, clicking this option will allow them to hear audio rom the location of the camera.				
This option enables the camera's Network Indicator LED light turn on or turn off.				
This button opens the IP camera's Backend Menu				
These options enable single view, quad screen view, or 9 screen view:				
his function serves no purpose unless you have more than one camera connected and configured to your interface.				
* Please refer to section 8.1.1 Multi-Device Settings*				

This feature is only supported by the PTZ IP Camera. Enable the Zoom Function.

3.5. Administer Setting Instruction

When login as Administrator, you can enter the IP Camera for Administrator. Administrator supports all the settings and operations of the camera; you can set and control it freely There are some special functions only for administrator as below:

Alias setting : You can set your favorite device aliases.

Date&Time set : seting the date and time.

Uer settings : Can be set up to 8 users. On this page you can set up accounts of the user name, password, as well as in their packet (administrator, operator, visitor).

- **Visitor** : In this mode, you can only visit.
- **Operator** :You can set the direction of the lens device, set the video screen's brightness, contrast and other parameter.
- Administrator : You can set the device advanced configuration.

UPnP set : If you want internet access IPCAM, to ensure that the state is successful UPnP. **Device Firmware Upgrade:** The system firmware update the device firmware and application of **Restore factory settings** : When there is not a response when the error occurred, you can restore the factory settings to resolve the device.

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I rebooted the device : rebooted the device. Back: Return to monitor mode

3.5.1 Multi-Device Settings

• Add a local area network equipment

In the multi-device configuration page, you can see all the equipment inside the LAN. The first device is the default device. You can add more devices listed in the list of equipment. Embedded applications, up to 4 devices at the same time-line. Click the "second road equipment" and double-click "Current list of devices in the LAN" in the device entry name, host address, Http port will automatically be filled, require the user to fill in the correct account name and password, click "Add." Repeat this process you can continue to add devices. Finally do not forget to click on the "Settings" button.

		Device Info
	Multi-Device Settings	Alias Settings
	anonymous(192.168.1.99)	Date&Time Settings
	WASCAM IP CAMERA(192.168.1.81)	Users Settings
Device List in Lan		Multi-Device Settings
		Basic Network Settings
	Refresh	Wireless Lan Settings
The 1st Device	This Device	ADSL Settings
The 2nd Device	None	UPnP Settings
The 3rd Device	None	DDNS Service Settings
The 4th Device	None	Mail Service Settings
		Ftp Service Settings
The 5th Device	None	MSN Settings
The 6th Device	None	Alarm Service Settings
The 7th Device	None	PTZ Settings
The 8th Device	None	Decoder Settings
		Upgrade Device Firmware
The 9th Device	None	Backup & Restore Settings
attention: If you want to acces	ss the device from internet, be sure the host and port that you set can be accessed from internet.	Restore Factory Settings
		Reboot Device
	Submit Refresh	Log
		Back

Figure 3.9

• Add a device on the internet

First, make sure you want to add devices to access via IP address or domain name. For example:http://202.96.133.134: 9008 or <u>http://IPcam.dyndns.org:9008</u>. And then fill in host address: 202.96.133.134 HttpPort: 9008 or host address: IPcam.dyndns.org Http port: 9008. and fill in the correct account name and password to the last click on "Add." Repeat the above steps can add other devices



Figure 3.10

3.5.2 Network Settings

	Basic Network Settings	Alias Settings
Obtain IP from DHCP Server		Date&Time Settings
IP Addr	192.168.1.99	Users Settings
Subnet Mask	255.255.255.0	Multi-Device Settings Basic Network Settings
Gateway	192.168.1.1	Wireless Lan Settings
DNS Server	202.96.134.33	ADSL Settings
Http Port	99	UPnP Settings
	Submit Refresh	DDNS Service Settings
		Mail Service Settings

Figure 3.11

This sector is for DHCP and IP configuration, port forwarding is needed, If you choose to set IP address, please fill in the relative IP address, subnet mask, gateway, DNS server, Http port;

3.5.3 Wireless Settings

- 1. Make sure the router is a wireless router.
- 2. Make sure the Wi-Fi antenna installed.
- 3. Make sure whether there is encryption of the WLAN of the router, if there is encryption,

keep the key.

4. Login the camera, click // >"Wireless Lan Settings">"Scan", please scan 2times, then you will find the WLAN from the list, choose the one you use.

5. If there is no encryption, just click "Submit", if there is encryption, please input the key, then click "Submit".

6. Wait about 30 seconds, the camera will reboot, then unplug the network cable.

		Device Info
	Wireless Lan Settings	Alias Settings
Wireless Network List	wanscam[a0e1e005c5ac] infra WPA/WPA2-PSK dink[90e514d64d7d] infra WPA/WPA2-PSK xha4[9fe5940c6d42] infra WEP ChinaNet-xhacs[4f00384608d5] infra None	Date&Time Settings Users Settings Multi-Device Settings Basic Network Settings
Heine Witseland Lee	Scan	Wireless Lan Settings
Using Wireless Lan		ADSL Settings
SSID	wanscam	UPnP Settings
Network Type	Infra 💌	DDNS Service Settings Mail Service Settings
Encryption	WPA2 Personal (AES)	Ftp Service Settings
Share Key	www.wanscam.com	MSN Settings
	(Submit) Refresh	Alarm Service Settings
		PTZ Settings
		Decoder Settings
		Upgrade Device Firmware
		Backup & Restore Settings
		Restore Factory Settings
		Reboot Device
		Log
		Back

Figure 3.12

3.5.4 ADSL Setting

When your device directly connected to the Internet via ADSL, when you need to enter fill in your ISP service providers obtain from the account name and password. Duly completed and click "Settings" button. Your device can connect to the internet has.

ADSL Settings			
Using ADSL Dialup			
ADSL User			
ADSL Password			
Submit Refresh			

Figure 3.13

3.5.5 Dynamic DNS Setting (DDNS)

3.5.5.1 DDNS Setting:

(1): Click Service Settings".

DDNS Service Settings		
DDNS Service	vipcam.org 🛛 👻	
DDNS User	None Oray.net	
DDNS Password	DupDpc.org(dupdpc)	
	DynDns.org(statdns)	
	3322.org(dyndns)	
	3322.org(statdns) 88safe.com(dyndns)	
	vipcam.org	

Figure 3.14

(2): Choose the DDNS, there are 4 kinds of options:

(1): Manufacturer' DDNS: We provide a free DDNS: vipcam.org. This domain is provided by manufacturer.

Note: 88safe.com is old DDNS provided by manufacturer also. If you want use the manufacturer's free DDNS, Please Choose to use vipcam.org.

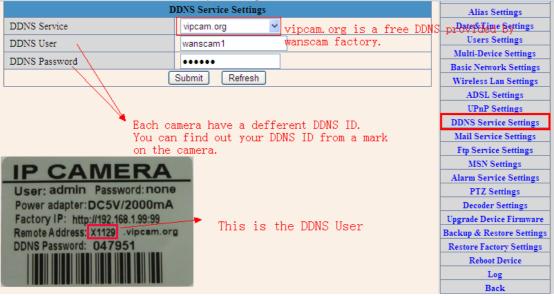


Figure 3.15

(2): The Third Party DDNS: This domain is provided by the 3rd party, such as Dyndns, Oray, 3322

If you use the third party DDNS, please choose the server you need, such as "3322.org" or "dyndns.org" as below:

DDNS Service Settings				
DDNS Service	DynDns.org(dyndns) 🔽			
DDNS User	wanscam			
DDNS Password	•••••			
DDNS Host	wanscam.dyndns.org			
DDNS or Proxy Server				
DDNS or Proxy Port				
Re-Update Ignoring All Errors	never do this unless your hostname has been unblocked			
proxy config is needed if the device is in China Mainland or HongKong				
Submit Refresh				

Figure 3.16

DDNS Service Settings					
DDNS Service	3322.org(statdns) 💌				
DDNS User	wanscam				
DDNS Password	•••••				
DDNS Host	wanscam.3322.org				
	Submit Refresh				

Figure 3.17

You have to register an account firstly, keep the user, password, host, then fill in it. Note: Only one DDNS can be chosen, for example, if you use manufacturer's DDNS, the 3rd party one won't work, if use the 3rd party DDNS, the manufacturer's one won't work.

3.5.5.2 Port forwarding settings:

1: Setting the IP address of the camera

The default IP address of the camera is : <u>Http://192.168.1.99:99</u> The default IP address of camera you can change to any other one you like, such as: Change to: 192.168.1.109:109. or 192.168.1.99:90 etc. Click "Apply">fill in the user name and password of the camera>click "OK" then the camera will reboot, wait about 30 seconds. You will get your changed IP address.

	Equipment Informatio	n
Atheros AR8132 PCI-E F. M	General Others	
192.168.1.213		
255.255.255.0	Name:	
192.168.1.1	HTTP Port:	99 🔄
216.146.35.35		
216.146.36.36	IP :	192.168.1.99
(Update)	Sub Mask:	255 . 255 . 255 . 0
	Gateway:	192.168.1.1
IP 1		Custom Auto
192.168.1.81	Primary DNS:	192.168.1.1
192.168.1.248	Secondary DIUST	
	Inner access:	http://192.168.1.99:99 Open
	Contract and Contractor	Check Open
Export		Contraction of the second
		Eind Apply Close
	192.168.1.213 255.255.255.0 192.168.1.1 216.146.35.35 216.146.36.36 Update IP 192.166.1.81 192.166.1.248	Atheros AR8132 PCI-E F 192.168.1.213 255.255.255.0 192.168.1.1 216.146.35.35 216.146.36.36 Update 192.168.1.81 192.168.1.248 Primary DNS: Secondary DNS: S

Make sure the "Subnet Mask", "Gateway", "DNS Server" is the same as your router.

2: Setting Port Forwarding in the router.

This is the most important step. Set port forwarding in router refer to the IP of your camera correctly, then the DDNS will work. Because there are so many kinds of routers from all over the world, so it's difficult to show a fix steps, but there are some samples of different routers' port forwarding settings as below, just for reference:

TP-LINK:

- (1) Login the router.
- (2) Choose "Forwarding", select "Virtual Servers"



(3) Click the Add New button, pop-up below:

Add or Modify a Virtual Server Entry

Service Port:	(XX-XX or XX)	
IP Address:		
Protocol:	ALL	
Status:	Enabled	
Common Service Port:	-Select One-	
	Save Return	

Fill the service port (except 80), IP address of the camera, then click Save The port and IP address should be the same as Camera.

BELKIN:

(1) Login the router.

(2) Choose "Firewall", select "Virtual Servers"
(3) Input the port (except 80) and IP address, then click save. Note: The port and IP address should be the same as Camera.

AN Setup								
AN Settings	Firewall:	> Virtual S	ervers					
Service Client								
Static Routing							ver (port 80), FTP	
Internet WAN	server (mort a	21), or other ap	plications throug	n your Router to	your internal	network, more ii	80	
Connection Type:								1
DMS-	Add Active V	Abrida		~			Add	
MAC Address Cloring	Clear entry	t 💌					Clear	
Wreless	-		Concernant of the local division of the loca			Private IP	No.	
Channel and SSED Security		Enable	Description	Inbound port	Type	address	Private port	
WeFi Protected Setup		10			THE REAL PROPERTY AND	192,168.2	-	
Quest Access	-1-	1	IPCAM	101	вотн 🛩	56	101	
Use as Access Ford	2		-	1	вотн 👻	192160.2	1	
GoS		1	-		DOIN O		-	
GoS Profiles	3		-	1	BOTH V	192.100.2	1	
Traffic Statistica			-		BOIN			
Firewall	4			-	BOTH V	192.168.2		
Virtual Services		(bad	-	12	Donn es		-	
MAC Address Filtering	5		-		BOTH V	192.168.2.	7	
Access Contrie DMT				10.0	a source and		1	
DONS	6				BOTH 💌	192 168 2		
WAN Ping Blocking	1 E			1 ₁₁	and the second second		-	
Security Log	7		1		BOTH 👻	192,168,2		
Utilities		state.			I manufacture and	1001000		
Rostart Router	8				BOTH 🛩	192.168.2		
Rentione Factory Defixition				1.1		and a second sec	1	
Sover/Backup Settings	8				BOTH 💌	192.168.2.		
Riestore Previous Settinos				100		103 400 3	1	
Famware Update System Settings	10				вотн 💌	192.168.2.		

DLINK:

(1) Login the router.

(2) Choose "Advanced", select "Virtual Servers"

(3) Input the port, IP address, Protocol, then click save.

Note: The "public port" & "private port" should be the same as camera's port, choose the protocol to be "both".

-601 ///		SETUP	ADVANCED		TOOLS		STATU	5	SUPPORT
JAL SERVER	VIR	TUAL SERVER		- 10		333			Helpful Hints
FORWARDING	The	Virtual Server onti	on allows you to define	a sinc	ale public port o	on your route	er for redire	ction	Check the
ICATION RULES	to an	internal LAN IP A	ddress and Private LAN						Application Name
ENGINE	oniin	e services such as	FTP or Web Servers.						drop down menu f list of predefined
ORK FILTER	5	Save Settings	Don't Save Settings	n jj					server types. If you select one of the
SS CONTROL	5								predefined server
SITE FILTER	24 -	VIRTUAL SE	RVERS LIST						types, click the arr button next to the
UND FILTER					Port	Traffic Type			drop down menu t out the correspon
WALL SETTINGS		Name			Public Port	Protocol	Schedu	ile	field.
ING		rivomaxcam	<< HTTP	•	81	Both 👻	Always	-	You can select a
NCED WIRELESS					Private Port		Inbound i	Filter	of DHCP clients in the
NCED NETWORK		IP Address 192, 168, 0, 107	<	•	81	256	Allow All	-	Computer Name
	12	Name	Comparer Name		Public Port	Protocol	Schedu		down menu, or yo can manually enter
		Martie	Application Name	-	0	TCP -	Always		IP address of the L computer to which
					Private Port		Inbound	Filter	you would like to a
		IP Address				6		_	the specified port.
		0.0.0.0	Computer Name	•	0		Allow All		Select a schedule
		Name			Public Port	Protocol	Schedu		when the virtual se will be enabled. If
			Section Name	•	0	TCP 🔻	Always		do not see the
					Private Port		Inbound	Filter	schedule you need

After all these 4 steps done, then you can use the DDNS freely, check the DDNS status from the camera as below, and get the link of DDNS for internet view.

Step: "Login">"	">"Device Info":

		Device Info
	Device Status	Alias Settings
Device ID	0008FB006C21	Date&Time Settings
Device Firmware Version	0.37.2.43	Users Settings
Device Embeded Web UI Version	0.9.4.12	Multi-Device Settings
		Basic Network Settings
Alias	WANSCAM118	Wireless Lan Settings
Alarm Status	None	ADSL Settings
DDNS Status	Vipcam Succeed Manufacturer's DDNS	UPnP Settings
UPnP Status	UPnP Succeed DDNS Status 3322 Succeed http://	DDNS Service Settings
		myjwb.3322.org128 ervice Settings
P2P Status	No Action DynDns Succeed htt	p//seeamericainn.dyndns.org/8085 ttings
MSN Status	No Action	MSN Settings
	Refresh The 3rd party' S DDNS.	Alarm Service Settings
		PTZ Settings
		Decoder Settings

Figure 3.21

3.5.5.3 DDNS Register

For example, you can go to Dyndns website to register a free account. http://www.dyndns.org / <u>http://www.dyndns.com</u>.

Step1: enter http://www.dyndns.com/ and Create Account

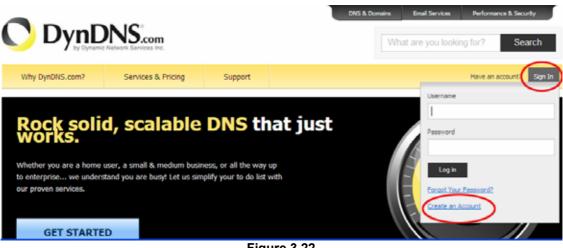


Figure 3.22

Step2: Set the username and password as below:

Username	kevinzhu	Already Registered?
	Username should start with letter and have 2-25 alphanumeric characters.	
		Username
Password	•••••	Password
Confirm password	•••••	Logi
Email	ipcame@qq.com	Forgot your password?
Confirm Email	ipcame@qq.com	
Security Image		TRUSTe
	化化物 计中心时间 化中心 法公司	CERTIFIED PRIVACY
	Enter the numbers from the above image:	
Subscribe to	ImpynDNS.com newsletter	
	(1 or 2 per month)	
	Dyn Inc. press releases	

Figure 3.23

Step3: After a minute, you will receive a E-mail from DynDNS Support and it will give you a confirmation address (e.g. <u>https://www.dyndns.com/confirm/create/ONMzltcCBk6mcHJI5MhVD0g</u>)

DynE	DNS.com		What are you looking for? Search
Why DynDNS.com?	Services & Pricing	Support	Have an account? Join NOW Sign In
One more step to go Ve've sent an email to 1p	o	your account. Please chec	k your inbox and click on the
you do not receive the emai	I in the next few minutes you	can try resending it.	
	1 m m m m		
hanks for choosing DynDNS.	com!		

Your DynDNS.com Account 'kevinzhu' has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process:

https://www.dyndns.com/confirm/create/ONMz1tCBk6mcHJI5MhVD0g

Our basic service offerings are free, but they are supported by our paid services. See http://www.dyndns.com/services/ for a full listing of all of our available services.

If you did not sign up for this account, this will be the only Figure 3.25

Step4: When the Account Confirmed, login and start using your account. Choose Add Host Services(Figure 3.25) and enter Add New Hostname (Figure 3.26)page.

My Services	Billing	Account Settings	
View, modify, purchase, and delete your services.	Update your billing Information, complete a purchase, and view	Update your email address, set preferences, and delete your account.	
My Zones/Domains	invoices.	Change Email Address	
Add Zone/Domain Services	View Shopping Cart	Change Password	
My Hosts	Active Services	Change Username	
Add Host Services	Order History	Contact Manager	
Dynamic DNS Pro	Billing Profile and Vouchers	Mailing Lists	
Dynect SMB	Renew Services	Move Services	
Internet Guide	Auto Renew Settings	Preferences	
SendLabs SMTP	Sync Expirations	Close Account	
SSL Certificates			

Figure 3.26

Hostname:	kevinsafe . dyndns.org 💙
	Please enter valid hostname label to add new hostname (2-24 characters).
Wildcard: only for DynDNS Pro users	create "*.host.dyndns-yourdomain.com" alias (for example to use same settings for www.host.dyndns-yourdomain.com)
Service Type:	 Host with IP address WebHop Redirect (URL forwarding service) Offline Hostname
IP Address:	116.30.138.72 Your current location's IP address is 116.30.138.72 TTL value is 60 seconds. Edit TTL
Mail Routing:	No need to choose
	Figure 3.27

Step5: On the Add New Hostname page.

- 1) input your Hostname.
- 2) choose Host with IP address
- 3) click Use auto detected IP address xxx.xx.xxx. Then click Create Host.
- 4) after you have added a New Hostname , you need "Proceed to checkout"

hopping Cart	_	
	Proceed to	o checkout •
두 Upgrade Options	-	
Free accounts allow only two Dynamic DNS hosts. • to add more and enjoy additional benefits for only \$15.00 per ye • to get Dynamic DNS for your own domain , use <u>Custom DNS</u> .	aar, <u>purchase Dynamic DNS Pro</u> 🏤.	
Dynamic DNS Hosts		
kevinsafe.dyndns.org -	remove	\$0.00
	Order Total:	\$0.00

Figure 3.28

ree Services Checkout	_	
nce you have confirmed the contents of your cart your servi	ces will be instantly activated.	
Service	Period	Price
Dynamic DNS Hosts		
kevinsafe.dyndns.org	•	\$0.00
	Sub-Total:	\$0.00
	Activate Se	ervices >>)



Host Services			<u>↑ My Servio</u>
Hostname	Service	Details	Last Updated
kevinsafe.dyndns.org	Host	116.30.138.72	Mar. 23, 2011 10:31 AM



Step6: Now you obtained a Dynamic Domain Name(Figure3.30),and can use it in the DDNS Service Settings(details: 3.5.5)

Notice:

If you have a dynamic IP address, Make sure you have download the DynDNS's "Update Client". And installed it succeed in your computer.

		DNS & Domains	Email Services	Performance & Security	
💙 DynD	Notwork Services Inc.		What are you I	ooking for?	Search
Why DynDNS.com?	Services & Pricing	Support	Welcome kevin	zhu (FREE) Hy Accos	unt Hy Cart Log Out
Support	Support				
Site Help Account Help Glossary Update Abuse Policy		ss? Make sure you download ou	r update client:	DynDNS	© Updater (4.1.6)
Update Clients Service Level Agreement	FAQs Tutorials				
	ropatar ropica	51			

Figure 3.31

3.5.6 E-mail and FTP service Settings

		Device Info
	Mail Service Settings	Alias Settings
Sender		Date&Time Settings
Receiver 1		Users Settings
Receiver 2		Multi-Device Settings
		Basic Network Settings
Receiver 3		Wireless Lan Settings
Receiver 4		ADSL Settings
SMTP Server		UPnP Settings
		DDNS Service Settings
SMTP Port	25	Mail Service Settings
Transport Layer Security Protocol	None 💙	Ftp Service Settings
	Gmail only support TLS at 465 port and STARTTLS at 25/	587 MSN Settings
	port.	Alarm Service Settings
Need Authentication		PTZ Settings
	Test Please set at first, and then test.	Decoder Settings
Report Internet IP by Mail		Upgrade Device Firmware
	Submit Refresh	Backup & Restore Settings
		Restore Factory Settings
		Dahara Daritar

Figure 3.32

The above setting is a preparation for the alarm function, the sender should be entered the sender's email address, recipient 1, 2, 3, 4 is filled with recipient E-mail address; SMTP server should be filled with the sender email SMTP server, e.g. the sender email address is abc@163.com, and enter mail.163.com. Generally SMTP port is 25, do no need to change; when needs to check, just tick it, and enter SMTP user and SMTP password, both of them are provided by Email provider, and test according to reference; when needs to send, please tick Email notification Internet IP address; The e-mail server and other information can be obtained from the mail service provider the email notification is image captured when alarming if no email notification is needed when alarming, and then no need to enter.

Set up FTP service, you can fill in parameters like following:

Ftp Service Settings		
FTP Server		
FTP Port	21	
FTP User		
FTP Password		
FTP Upload Folder		
FTP Mode	PORT 💌	
	Test Please set at first, and then test.	
Upload Image Now		
Submit Refresh		

Figure 3.33

The above setting is equally similar to Mail Server Settings, when alarming is triggered it also sends image, please enter FTP server, FTP port, FTP user, FTP password, FTP upload directory, FTP mode, FTP mode has two options: PORT and

POSV. If needs a quick upload image, then select it, edit upload image interval (second)

3.5.7. Alarm Service Settings

As shown below, there are two modes of alarm trigger, first one is motion detection, please refer to below interface, the sensitivity of motion detection can be adjusted according to the users' requirement, the higher the number is, the lower sensitivity is; Another mode is input alarm, when connected, it triggers alarm through alarm input signal which connects to linkage alarm GPIO;

When triggered, there are 3 alarm modes : one is IO alarm linkage, camera connects with linkage alarm box through GPIO, sound the siren ; the second is email notification, send email with images captured ; the last is upload pictures alarm , as the way mentioned before FTP upload pictures alarm, Upload pictures interval (second) keeps consiste nt with the mentioned upload pictures interval of Ftp service settings. The schedule refers to arming time , as the selected time interval : 0 : 00 minute per week to 0 : 45 minutes and Monday 1 : 00 hour and 2 : 00 hour

	Device Into
Alarm Service Settings	Alias Settings
Motion Detect Armed	Date&Time Settings
Motion Detect Sensibility 5	Users Settings
Alarm Input Armed	Multi-Device Settings
· · ·	Basic Network Settings
Triger Level High 🗸	Wireless Lan Settings
IO Linkage on Alarm	ADSL Settings
Output Level Low 🗸	UPnP Settings
	DDNS Service Settings
Send Mail on Alarm	Mail Service Settings
Upload Image on Alarm	Ftp Service Settings
Upload Interval (Seconds) 0	MSN Settings
Scheduler 🔽	Alarm Service Settings
Day 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	23 PTZ Settings
Sun	Decoder Settings
Mon	Upgrade Device Firmware
Tue	Backup & Restore Settings
Wed Thu	Restore Factory Settings
Fri	Reboot Device
Sat	Log
Submit Refresh	Back

Figure3.34

3.5.8. Reset/Firm Ware Upgrade

This sector is for camera firmware upgrade, it includes device system firmware Upgrade Device Firmware and device application firmware Be cautious to apply for it!

Upgrade Device Firmware		
Upgrade Device Firmware	Browse Submit	
Upgrade Device Embeded Web UI	Browse Submit	

Figure 3.35

3.5.9 Restore Factory Settings

When users forget password, we can restore ex-factory settings, when click, a picture will pop up, Click ok, and wait for 1 minute and you can use it normally. User setting feature restores





3.5.10 Reboot Equipment

Click restart, it appears the above picture, click ok, wait for 1 minute and you can use it normally



Figure 3.37

4 Warranty

Under normal use condition, products resulting from its own failures in the warranty period will be free maintenance. Warranty Terms as following:

a) Charge-free maintenance of the product is one year. We can repair it for free during the guarantee period (Damages not caused by misuse or vandalism). Repair over guarantee period, we will charge maintenance fee.

b) During guarantee period, breakdown caused by misuse or other reasons out of range of warranty. You could ask repair depend on the card. We only charge for changed components, the maintenance charge is free.

c) When the products need maintenance, hand up the card with products to the manufacture or local distributor.

d) Take apart item crust, tear up the sealing label privately, this is out of warranty range.

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 force majeure incidents factors

d) Repaired item by non-authorized repair centers.

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

THAT'S ALL, THANK YOU!