IPCAM User Manual

IP Camera User Manual



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1.User Manual brief introduction

Thank you for choosing our network ip camera. The manual can help you to use the camera correctly. Some descriptions maybe aren't perfect. If you meet unsolvable problems according to this manual, please contact the product supplier. The camera's software, hardware and shell will update , we will be subject to change without notice. But we will released updated notice on our website, please pay attention to it.

1.1 Appointment

Please obey this manual strictly to use the camera.

1.2 Cautions

Before using the camera, please read all the safety instructions as below carefully then install .

1.2.1Installation environment

The camera can be installed indoor, if outdoor, please add waterproof components and lightning protection equipment;

Working temperature limited to 0 $^\circ \rm C$ ~ 50 $^\circ \rm C$ between, humidity limited to 5% ~ 90% (non-condensable)

Banned in inflammable, explosive environment install and use;

Avoid installing in strenuous vibration place, do not put other equipment on the camera;

Avoid installing near a strong field of electronic equipment that could cause the unit cannot be normal use and even damage;

To ensure the normal radiating of camera, should avoid the poor ventilation places or high temperature environment;

Use wireless ip cameras, should try to avoid or reduce transmission range of obstacles

1.22 Transporting and carrying

The camera package has aseismatic design and testing, ensure ip cameras will not be accidental breaking during transport, in handling this unit, it is best to use original package. Avoid moving the camera between extreme cold and hot place, Avoid machine internal dewing, affect the service life of equipment.

1.23 Maintenance and protection

Non-professional maintenance personnel, do not tear open the camera, avoid damage and shock

Please use the original configuration of the power adapter, use unauthorized power adapter can damage of the camera.

Please do not touch canera's lens, it will leave fingerprint on it that cause image blurring;

Do not put liquid in the unit, lest cause machines internal short circuit or fire.

The camera software upgrade process cannot without electricity, otherwise it will damage it, the software prior to upgrade, It is best to restart camera, and ensure the external no other users are visiting.

1.24 Packing list

Item	Quantity
IP Camera	1 piece
Wi-Fi Antenna	1 piece (only wireless IPCAM user)
CD	1 piece (Include User Manual、IP camera tool)
DC Power Supply(5V 2A)	1 piece
Network Cable	1 piece
Mounting bracket	1 piece (option)

Optional : One Wire for alarm input/output

NOTE: Contact us immediately in the case of any damaged or short of contents.

2 Products overview

IPCAM is an integrated wireless IP Camera solution. It combines a high quality digital video Camera with network connectivity and a powerful web server to bring clear to your desktop from anywhere on your local network or over the Internet.

The basic function of IPCAM is transmitting remote video on the IP network. The high quality video image can be transmitted with 30fps speed on the LAN/WAN by using MJPEG hardware compression technology.

The IPCAM is based on the TCP/IP standard. There is a WEB server inside which could support Internet Explore. Therefore the management and maintenance of your device become more simply by using network to achieve the remote configuration, start-up and upgrade firmware.

You can use this IPCAM to monitor some special places such as your home and your office. Also controlling the IPCAM and managing image are simple by clicking the website through the network.

NOTE: You can use the IP Camera Step by Step(details: 3).

Some functions depend on Model.

2.1.1 Features

- Powerful high-speed video protocol processor
- High-sensitivity 1/4" CMOS sensor
- 300K Pixels
- IR night vision(Range:3~5m)
- Optimized MJPEG video compression for transmission
- Multi-level users management and passwords definition
- Embeded Web Server for users to visit by IE
- Support wireless network (Wi-Fi/802.11/b/g)mobile
- Supporting Dynamic IP (DDNS)and UPnP LAN
- Giving alarm in cause of motion detection
- Support one-way (I/O) alarm connection
- Supporting image snapshot
- Support multiple network protocols:

HTTP/TCP/IP/UDP/STMP/DDNS/SNTP/DHCP/FTP

• Support remote system update

2.1.2 Advanced Features

Multi-Protocol support and Transportation

IPCAM supports Multi-Protocol such as TCP/IP, SMTP and HTTP. Sending the image to your mailbox automatically when the IPCAM is triggered.

Motion Detection

Your may use the internal Motion Detection function or external sensor to trigger images recording and transportation.

Alarm sensor input/output

The detection sensor sends an alarm and records it by itself when there is a fire or accident. A message as an email is send to you by this sensor. (The input/output discreteness can be chosen)

DDNS support

Using the IPCAM in the condition which including ADSL and IP change often is more convenient,

because IPCAM provides dynamic DNS function.

Advanced User Management

Only allowing authorized users access to real-time images of the IP Camera.

2.2 Product views

2.2.1 Front views



Figure 1.1

1 SensitiveHole

2 Infrared LED

3 Network Indicator LED If there is network activity, the LED will blink.

4 LENS CMOS sensor. You can turn around the lens manually to adjust the focus

range.

5 Built-in Mic

2.2.2 Front views



Figure 1.2

LAN : RJ-45/10-100 Base T

DC5V : 5V/2A Power supply

RESET BUTTON: Press and hold down the RESET BUTTON for 5 seconds.Release the power button and IP camera will be reset back to the factory default parameter



Figure 1.3

2.3 PC System Requirements

System configuration requirements: (Example for view four IP Camera) CPU: 2.06GHZ or above Memory: 256M or above Network Card: 10M or above Display Card: 64M or above memory Recommendable Operating System: Windows2000, Windows XP, VISTA,WIN7 Support web browser: IE. FireFox. Google etc.

2.4 Hardware Instruction

Fol ow the steps below to set up your camera hardware. Make sure to follow each step carefully to ensure

that the camera operates properly.

- 1) Plug the network cable into the camera and then into your Cable/DSL router.
- 2) Plug the power adapter into the camera and then into the power outlet.



CAUTION: Make sure to only use the power adapter supplied with IPCAM. Using a non-approved power adapter may damage the camera.

3) The camera takes approximately 30 seconds to start up before it displays an IP address on the **IP Camera Tool**(details: 3.1).

4) When the camera is powered and network cable plug correctly. It shead will turn around and the Network Indicator LED is blank.

2.5 Software installation

Software installation is the key to the successful use of this product. 1 Open the CD,find the software as instruction;







Figure 1.6

3 .Click Next









5.Choose restart then click Close



appears on

The computer restarts upon installation completion and an icon the desktop automatically.

NOTE: Before installing and using the product, please read the following precautions carefully and make sure they are fully understood.

Use only the power adapter attached with the product. Use of unauthorized power adapter may cause damage to your IP Camera. IP Camera terminal shall be installed in an indoor environment.

3 SOFTWARE OPERATION

3.1IP Camera Tool

When the Device has been mounted properly, you can double click the icon "IP Camera

IP Camera Tool	and a dialog hav as Figure 1.0 wil	
🔯 IP Camera Tool	and a dialog box as Figure 1.9 will	pop up.
test01	Http://192.168.1.111:8999	
test2	Http://192.168.1.178	
outdoor testing	Http://192.168.1.109:9000	
00000		

Figure 1.9

Note: The software searches IP Servers automatically over LAN. There are 3 cases:

1 No IP Camera found within LAN. After about 1 minute search, the Result Field will show "not found IP Server" and the program shut automatically;

2 IP Cameras having been installed within LAN. AI the IP Cameras will be listed and the total number is displayed in the result field as shown in Figure 2.0.

3 The IP Cameras installed within LAN do not share the same subnet with the monitoring PC. A prompt as shown in result field (prompt: Subnet doesn t match,dbclick to change!). Click the left mouse button to choose the prompt and click the right mouse, choose **Network Configuration** to set the IP address of the Camera to the same subnet as LAN. **Five Options**

Choose the IP Camera list and Click right mouse button, there are five options, Basic Properties, Network Configuration, Upgrade Firmware, Refresh Camera List, Flush Arp Buffer as shown Figure 2.0.

IPCAM User Manual

test01	Http://192.	Basic Properties
test2	Http://192.1	Network Configuration
Anonymous	Π(ψ.)/1	Upgrade Firmware
Anonymous	1100-111	Refresh Camera List
		Flush Arp Buffer
		About IP Camera Tool

Figure 2.0

Basic Properties

There are some device information in the Basic Properties, such as Device ID, System

Firmware V	Version,	Web	UI	Version

Device ID	00606E60FB17
System Firmware Version	0.22.2.35
Web UI Version	0.2.4.0
ОК	

Figure 2.1

Network Configuration

In	this	page,	you	can	configure	the	Network	parameter.
1	-	1 U /			U	-		

tU1 Http://19	2.168. restor Network Conliguratio	
	C Obtain IP from DH	CP server
	IP Address	192.168.1.111
	Subnet Mask	255.255.255.0
	Gateway	192.168.1.1
	DNS Server	202.96.134.33
	Http Port	8999
	User	admin
	Password	
	οκ	Cancel



IP address: Fill in the IP address assigned and make sure it is in the same subnet as the gateway.(i.e.the first three sections are the same)

Mask: The default subnet mask of the equipment is: 255.255.255.0

Gateway: Make sure it is in the same subnet with PC IP address. Default Gateway address is 192.168.1.1

DNS: IP address of IPS network provider.



Port: LAN port assigned for the equipment, usually 80

User & Password : Default administrator username/password: admin/No password Enable **Using DHCP** the system wil assign a reasonable IP address for your equipment only if your gateway supports DHCP (It is the case with most gateways).

DHCP checkbox: if checked, the device wil obtain IP from DHCP server (To be make sure the Router which the device connect with has DHCP function).

NOTE: when the prompt "subnet doesn t match, double click to change!", please set the IP Camera IP address once again.

I Upgrade Firmware

Enter the correct User and Password to upgrade system Firmware and Web UI.

test01	Upgrade Firms	Mare	×
Us	er	admin	
Pa	ssword	[
	Upgrad	e System Firmware	
	Up	ograde Web UI	
	Ľ	ОК	



I Refresh Camera List

Refresh camera list manually.

I Flush Arp Buffer

When cable network and wireless network of the device both are fixed IP address. There is a problem you may encounter is can search the camera IP but can t open the camera web page.you may try to use flush arp buffer.

3.2 Camera Login

You can access the camera :

1.through IP Camera Tool

or IE directly.

Double click the IP address of the IP Camera listed(Figure 2.0).IE wil be opened

automatically and display the camera login page.

2. Access the camera by IE browser directly, type in the camera s IP address. for example.

1)By IE browser as below:







Figure 2.6

enter your account and password on the login page as shown in Figure 2.6. By default, administrator s username is: **admin** and no password.



Figure 2.7

Click "Sign in" to enter the monitoring page(Figure 2.8). You can set the username and password as Administrator, Operator or Visitor.

2) By Mozilla Firefox browser as below:



Figure 2.9

The Camera Login page pop-up.	
Elle Edit View History Bookmarks Tools Help	
	~ 19
C A D http://192.168.1.111:8999/index1.htm	¥ 🚺 * ۲
Most Visited 🗋 Getting Started 🔊 Latest Headlines	
Device(test01)	
English Deutsch French Italian Spanish Polish Portuguese Russian Chinese(S) Chinese(T)	
A dian V M. J. (For IF Decourse)	
ACUVEN MODE (FOF LE BROWSER)	
Sign in	
Server Push Mode (For FireFox, Google Browser)	
Sign in Sign in	
	<u>_</u>
attention:	
propose using 1024 * 768 screen resolution	



Click sign in, Server Push Mode's functions are less than ActiveX

Figure 3.1

4. with mobile phones equipped with special tools wap browser visit IPCAM with computer access similar as follows:





Click Sign in

Figure 3.3

Also can browse ip camera by inputting ip address to browser:

Figure 3.4

3.3 For Visitor

For example: if is bright ,the first route is on Detection(Motion Detection).

Figure 3.5

If you want to detect 4 views , need to click this ico .The first you should add more deivce.see details in **3.5.1 Multi-Device Settings.**

OSD: Display date and time on the video. You can disable the OSD function or choice other color.

(OSD:on-screen display)

Snapshot: Click ico to snap the picture.

REC: Click ico into REC mode, is stop.

Audio:Click icointo Audio mode,can listen the voice in monitoring range..Talk:Click icointo Talk mode,Visitor can talk with whom is in the monitoring range.range.Image: Image is a state of the s

Note:

the record file name is: device Alias_ Current time.Avi

For example: IPCAM_20101211134442.Avi

It means the device alias is IPCAM and its record s end time is : At 13:44:42 on December 11, 2010.When use **motion detection** and checked **Send Mail on Alarm.** The name of the pioner received in mailbox is like this: *device id*(*Alias*)_*Current*

time.jpg

For example: 00006E576A02(IPCAM)_m20101216212745.jpg

It means the device ID is 00606E576A02, the device alias is IPCAM and its picture s time

is : At 21:27:45 on December 16, 2010

3.4 For operator

When login as operator or administrator, you can enter the For Operator

Figure 3.6
Direction control: click the different arrow wil get different direction view.
Image around flip

Image fluctuation flip Resolution: VGA (640 X 480) / QVGA(320 X 240) Mode: 50Hz/60Hz/Outdoor

• color parameter: Click or can adjust brightness and contrast .

3.5 For Administrator

When you login as administrator, "**For Administrator**" is enabled. **Device-Info:**You can find the information about Device ID,Firmware Version and Embedded Web UI Version.





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		Device Info
	Device Status	Alias Settings
Device ID	00606E60FB17	Date&Time Settings
Device Firmwore Version	0.00.035	Users Settings
	0.22.2.35	Multi-Device Settings
Device Embeded Web UI Version	0.2.4.0	Basic Network Settings
Alias	test01	Wireless Lan Settings
Alarm Status	None	UPnP Settings
		MSN Settings
DDNS Status	DynDns Succeed http://neotest1.dyndns.org.8999	DDNS Service Settings
UPnP Status	UPnP Succeed	Mail Service Settings
MSN Status	Succeed	Ftp Service Settings
INDIA DIALAS		Alarm Service Settings
	Refresh	Upgrade Device Firmware
		Backup & Restore Settings
		Restore Factory Settings
		Reboot Device
		Log
		Back

Figure3.7

Alias Settings: You can Input the new name as you like.

Data & Time Settings: Data & Time Settings page.

Users Settings: Eight accounts are acceptable for this system. Here the eight users can configure their user names and password as Administrator, Operator or Visitor.

Visitor: In this mode, you can only view.

I Operator: You can control the direction of IP Camera and set some parameter.

Administrator: You can setup the advanced configurations of the IP Camera.

UpnP Settings: If you access IP Camera, to be make sure **UpnP Status** is Succeed. **Upgrade Device Firmware:** Upgrade Device Firmware and device embedded web UI software in this page.

Restore Factory Settings: Restore factory settings of the device.

Reboot Device: Reboot the device.

Back: Back to Monitoring Mode.

3.5.1 Multi-Device Settings

I Add cameras in LAN

In the Multi-Device Settings page, you can see all devices searched in LAN. The 1st Device is this device in default. You can add more cameras list in LAN for monitoring. This Web software supports up to 4 IP Cameras online simultaneously. Click "**The 2ND Device**" and Double click the item in the "**Device List in LAN**", Alias, Host and Http Port will fil in automatically. Enter the correct username and password then click "**add**".Add more cameras in the same way.

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		-	Derice Info
			Alias Settings
	autdoor testing (192,169,1,109)	15	Date&Time Settings
	test2(192.168.1.179)		Users Settings
Device List in Lan	test01(192.168.1.111)	20	Multi-Device Settings
	10 King 10 Kin		Basic Network Settings
	Refresh		Wireless Lan Settings
The 1st Device	This Denice		UPnP Settings
The Ded Dardes	hisso		MSN Settings
The and Device	rene		DDNS Service Settings
sarlA,	test2		Mail Service Settings
Host	192.168.1.179		Ftp Service Setting:
Hite Port	190		Alarm Service Settings
1.00g 2 414			Upgrade Device Firmwar
Uper	Jadmin		Backup & Restore Setting
Password			Restore Factory Setting
	Add Remove		Rebeat Device
The 3rd Device	None		Leg
The 4th Device	None		Back
The 5th Device	None		
The 6th Device	None		
The 7th Device	None		
The 8th Device	None		
TI OH T	lan -	1.4	

Figure3.8

I Add cameras in the Internet

Firstly, make sure the camera added can access in the Internet with the IP address or DDNS domain. or <u>http://IPCAM.dyndns.org:9008</u>

You can enter the Host: 219.133.200.165 port: 81 or Host: IPCAM.dyndns.org port:

81.Enter the correct username and password then click "add". Add more cameras in the

	1 igaloo.zo	Derice Info
	Multi Deries Senings	Alias Settings
	autdoor testing (192.168.1.109)	Date&Time Settings
	test01(192.168.1.111)	Users Settings
Device List in Lan	1est2[152.168.1.179]	Multi-Device Settings
		Basie Network Settings
	Refresh	Wireless Lan Settings
The 1st Device	This Device	UPaP Settings
The 2nd Device	None	MSN Settings
Aliac	In thisse testing?	DDNS Service Settings
Pulles	politika ingz	Mail Service Settings
Host	113.87.254.56	Ftp Service Settings
Http Part	90	Alarm Service Settings
Tinar	ladmin	Upgrade Device Firmware
		Backup & Restore Settings
Password		Kestore Factory Settings
	Add Remove	Kebaot Device
The 3rd Device	None	Leg
The 4th Device	None	Back
The 5th Device	None	
The 6th Desice	None	
The 7th Device	None	
The 8th Device	None	
TE 20 8	1,-	1

Figure3.9

Figure4.0

3.5.2 Network Settings

I Basic Network Settings

If the router that the IP camera connect has DHCP function, you can choice "Obain IP from DHCP Server"else fil in the network parameters manually.

Http Port: In most cases, you can leave this value as 80, however, if your Internet Service Provider blocks this port, you may switch to another port number such as 8999.

Obtain IP from DHCP Server IP Addr	Basic Network Settings	Alias Settings Ficture Date: Time Settings Users Settings
Obtain IP from DHCP Server IP Addr	1 92.168.1.111	Figure Date&Time Settings Users Settings
IP Addr	192.168.1.111	Users Settings
	102.100.1.111	
		Multi-Device Settings
Subnet Mask	255.255.255.0	Basic Network Settings
Gateway	192.168.1.1	Wireless Lan Settings
DNS Server	202 96 134 33	UPnP Settings
Has Dea	0000	MSN Settings
Http Port	19999	DDNS Service Settings
	Submit Refresh	Mail Service Settings
		Ftp Service Settings
		Alarm Service Settings
		Upgrade Device Firmware
		Backup & Restore Settings
		Restore Factory Settings
		Reboot Device
		Log
		Back
		Log Back

I Wireless LAN Settings

 Please enter the wireless net setting page of the wireless Router to find out SSID, Channel(less than 10), Encryption Authentication as below:

TP-LINK	۲ <u> </u>		300M Wireless N Router Model No. TL WR811N / TL WR811N0
Status Ouick Setup OSS	Wireless Settin	gs	Wireless Settings Help Note: The operating distance or range o
Network Wireless	SSID:	NEO	your wireless connection varie eignificantly based on the physics placement of the Router For bacters with
-Window Sattings -Window Security -Window MAC Filtering	Region: Worning:	China: Ensure you a stact a correct country to conterm local law, incorrect astlings may cause interference.	place your Router. • Near the center of the area which your wholess stations w
- Wireless Advanced - Wireless Statistics	Channel: Mode:	10 Illingin mixed	operate. In an elexated location such as high shelt
DHCP Forwarding Security	Channel With: Max Tx Rate:	Auto × 300Mbps ×	 Average from the powerness Sources and indentiference, such as powerness microwaves, and cordies phones.
Parental Control		D. Enable Wireless Router Parts	position.
Access Centrel Advanced Routing		Enable SSID Broadcast	Away from large meta-suffaces Note: Failure to follow these guideline
Bandwidth Control IP & MAC Binding		🗂 Enable WDB	can result in significant performanc degradation or inability to windess connectto the Router.
Dynamic DNS System Tools		Sove	SSID - Enter a value of up to 3 characters. The same Name (SSID) mus be assigned to all winness divides i

Figure 4.2

TP-LIN	K	300M Wireless N Router Notel No. TL WR811N/TL WR811ND
Status Ouick Setup OSS Network Whiteless - Wireless Settings - Wireless Setting - Wireless Security - Wireless Security - Wireless Advanced - Wireless Statistics DHCP Ferwarding Security Parental Control Advanced Routing Bandwidth Control Bandwidth Control Bandwidth Control	WPA/WPA2 Version: Automatic Encryption: AE9 Radius Server IP: Radius Port: 1812 (1-85535, 0 stands for default perf (812) Radius Port: 1812 (1-85535, 0 stands for default perf (812) Radius Port: 1812 (1-85535, 0 stands for default perf (812) Radius Port: 1812 (1-85535, 0 stands for default perf (812) Radius Port: 1812 (1-85535, 0 stands for default perf (812) Radius Port: 1812 (1-85535, 0 stands for default perf (812) Radius Port: 1812 (1-85535, 0 stands for default perf (812) Radius Port: 1812 (1-85535, 0 stands for default perf (812) Radius Port: 1812 (1-85535, 0 stands for default perf (812) Radius Port: 1812 (1-85535, 0 stands for default perf (812) Radius Port: 182345678 Version: 12345678 Vou can enter AGCII characters between 9 and 63 or Group Key Update Period: 86400 (n second, minimum is 30, 0 means 1	Wireless Security Help You can select one of the follows security options: Disable Security - The wirele security function can be enabl or disabled. If disabled, if wireless stations will be able connect the Router with encryption. It is recommend strongly that you choose one following options to enat security WEP - Select 802.11 WI security WPA - Select WPA based pre-shared passphrase. WPA - Select WPA based Redus Berver Soupc Each security option has its own settin as described follows, WEP
System Tools	0396	Type - You can select one of followith holes.

figure4.3

2) As Administrator to Login camera, open wireless LAN Settings page, fill in every setting(ensure keep the same as router s), and then pulled out of the cable, wireless network function can be used. For example: as shown in figure 4.4

Figure4.4

3.5.3 UpnP and MSN settings

1) UpnP setting:

If you wanna browse by Internet, you have to use UpnP to Map Port, check this function then click Submit button.

		Device Info
	UPnP Settings	Alias Settings
Using UPnP to Map Port		Date&Time Settings
	Figure 4.5	Users Settings
	Submit	Multi-Device Settings
		Basic Network Settings
		Wireless Lan Settings
		UPnP Settings
		MSN Settings
		DDNS Service Settings
		Mail Service Settings
		Ftp Service Settings
		Alarm Service Settings
		Upgrade Device Firmware
		Backup & Restore Settings
		Restore Factory Settings
		Reboot Device
		Log
		Back
		_
4		

2) MSN Settings

Fill in your MSN account and password, then add account which need to receive IPCAM S ip address to IPCAM S MSN list (Figure 4.6), click submit then you d better restart IP camera. After it ,login your MSN to add IPCAM s MSN account to MSN List that you can receive IPCAM s ip address.

Figure 4.6

First login and click "add contacts " choose Add Contact ,then fill IPCAM s MSN account in "instant messaging address", click next then send offers.

Figure 4.7 28 / 61









When IPCAM s MSN account shows online you can chat with it, input path command "url?" camera account will show its IP address in chatting box promptly as below :

Figure5.0



You can input the IP address to browser then can browse ip camera as below:

Figure 5.1

Attention: You should fill MSN account in IPCAM first.

3.5.4 DDNS Service Settings

DDNS Service: The system supports protocols from some DDNS providers: Dyndns.org. **User and Password**: the user name and password used when applying for the domain name. (details:4.5)

DDNS Host: the Domain Name

DDNS or Proxy Server: If you access the DDNS host through a proxy, you should input the Proxy IP.

DDNS or Proxy Port: Proxy Port

Figure 5.2

		Perics Infe
	DDNS Service Settings	Alias Settings
DDNS Service	DynOns.org(dyndns) ·	Date&Time Settings
DDDD How	horitite	Users Settings
DDNa 098	(nati i 19	Multi-Device Settings
DDNS Password		Basie Network Settings
DDNS Hostname	neotest1.dyndms.org	Wireless Lan Settings
Re-Undate (gnoring all Emore	E name do this unless toop hostoone has been unblocked	UPaP Sexings
the optime (Bround for energy	I here and all suffers your indentative the open and other	MSN Settings
	Submit Refresh	DDNS Service Settings
		Mail Service Settings
		Ftp Service Settings
		Alarm Service Settings
		Upgrade Device Firmware
		Backup & Restore Settings
		Restore Factory Settings
		Reboot Device
		L+g
		Back

3.5.5 Mail and FTP Service

Note: When Alarm Service Settings-> Send Mail on Alarm is check, the Mail

Alarm Service Settings Alian Settings Motion Detect Armed 7 Date&Time Settings Motion Detect Sensibility 5 Usern Settings Alarm Input Armed 1 Mail: Derice Settings Alarm Input Armed 1 Basic Network Settings 10 Linkage on Alarm 1 Basic Network Settings Send Alarm Notification by Mail 7 UPuP Settings Upload Interval (Seconds) 2 Mail Service Settings Scheduler 1 C:\Documents and Setting path Scheduler Submit Refresh Backog & Resterr Restere Eastery Refresh Backog & Resterr	Alarm Service Settings Alian Settings 7 Date& Time Settings 5 Users Settings 6 Sasic Network Settings 7 Wireless Lan Settings 7 Wireless Lan Settings 7 Wireless Lan Settings 7 Wireless Lan Settings 8 DDNS Service Settings 9 Mail Service Settings 9 Refresh
Motion Detect Armed Image: Constraint of the second seco	V Date&Time Settings 5 Users Settings 6 Malii.Device Settings 7 Basic Network Settings 8 Wireless Lan Settings 7 UPAP Settings 7 UPAP Settings 8 UPAP Settings 9 Wireless Lan Settings 9 Wireless Lan Settings 10 UPAP Settings 11 UPAP Settings 12 UPAP Settings 13 Pip Service Settings 14 Upgrade Device Firmware 15 Backup & Resters Settings 15 Refresh
Motion Detect Sensibility 5 Users Setti Alarm Input Armed Image on Alarm Multic Device S 10 Linkage on Alarm Image on Alarm Upper Sension Optical Interval (Seconds) 2 Multi Service S path C:/Documents and Setting path Scheduler Image on Alarm English Alarm Service S Submit Refresh Backup & Refresh	5 Users Settings 6 Malti Device Settings 8 Basic Network Settings 7 Wireless Lan Settings 7 UPnP Settings 7 DDNS Setrice Settings 7 DDNS Service Settings 7 DDNS Service Settings 7 DDNS Service Settings 8 Upprade Device Firmware 8 Backup & Refresh 8 Refresh
Alarm Input Armed Alarm Input Armed IO Linkage on Alarm Send Alarm Notification by Mal F UPaP Send UPaP Se	Main Device Settings Basic Network Settings Basic Network Settings Wireless Lans Settings V <
Alarm Input Armed Alarm Input Armed Basic Network Basic Network	Basic Network Settings Wireless Lan Settings UPAP Settings DDNS Service Settings DDNS Service Settings DDNS Service Settings Fit Service Settings Lans Service Settings Upgrade Device Firmware Backup & Refresh
IO Lakage on Alarm Image on Alarm Wireless Lan S Sent Alarm Notification by Mal Image on Alarm UPuP Sentiling Upload Interval (Seconds) Image on Alarm Image on Alarm Upload Interval (Seconds) Image on Alarm Image on Alarm Schedular Image on Alarm Image on Alarm Schedular Image on Alarm Image on Alarm Submit Refresh Refresh	Wireless Lan Sertings DDNS Service Settings Alarn Service Settings Upgrade Device Firmware Backup & Refresh Refresh Refresh
Send Alarm Notification by Mad Upbod Image on Alarm Upbod Interval (Seconds) 2 math Scheduler Submit Refresh UPbP Seni MSN Seni DDNS Service S Mail Service S Upgrad Device Backup & Rester Restere Eastery Rebeet Dev	UPAP Settings UPAP Settings MSN Settings DDNS Service Settings Mail Service Settings Mail Service Settings Ftp Service Settings Lygrade Device Firmware Backup & Restore Settings Restore Factory Settings Restore Factory Settings Restore Factory Settings
Upload Image on Alarm V Upload Interval (Seconds) 2 path C-Documents and Setting path Alarn Service S Scheduler Upgrade Device 1 Submit Refresh Backup & Reiterr Restore Eastory Lee	MSN Settings DDNS Service Settings DDNS Service Settings Mail Service Settings C:\Documents and Setting Path Fip Service Settings Upgrade Device Firmware Submit Refresh Refresh
Opioad image on Alarm DDNS Service S Upload Interval (Seconds) 2 Mail Service S Scheduler Dubert Seconds Submit Refresh Refresh Rester Factory Refere Device F	2 DDNS Service Settings 2 Mail Service Settings C:\Documents and Setting path Submit Refresh Refresh Refreesh Settings Refreesh Device Firmware Backup & Restore Settings Refreesh Device Firmware Backup Settings
Upload Interval (Seconds) 2 path C:Upocuments and Setting path All Service S Scheduler Submit Refresh Backup & Refresh Rester Refresh Let	2 Mail Service Settings C:ADocuments and Setting path Fip Service Settings Alarm Service Settings Upgrade Device Submit Refresh Backup & Restore Settings Refresh Refresh Refresh Refresh
path C:Upocuments and Setting path Alarm Service 36 Scheduler Submit Refresh Backing & Refree Partier Reserve Factory Refree Device 1 Left	CADocuments and Setting path Ptp Service Settings Alarm Service Settings Upgrade Device Firmware Backup & Retrees Factory Settings Retree Factory Settings Retree Device
Scheduler Upgrade Device 1 Submit Refresh Backup & Rester Restory Rebect Dev Let Let	Alarm Service Settings Upgrade Device Firmware Backup & Restore Factory Settings Restore Factory Settings Restore Device
Submit Refresh Backup & Restore Factory Restore Factory Let	Upgrade Device Hirmware Submit Refresh Backup & Restore Settings Restore Factory Settings Reboot Device
Submit: Refresh Backing & Ketter Restore Factory Reboot Det	Submit Refresh Backup & Kenters Settings Restore Factory Settings Rebox Device
Reduce Factory Reboot Dex	Rebox Device
	Never Device
Bet	Basela

Figure 5.3

Configure the E-mail box to receive and send mails. The E-mail box is used for receiving the images sent after alarm and the system IP address after successful dial-up.

Sender: This device use the sender mailbox to send mails.

Receiver: To receive the mail from the Sender. You can set up to 4 receiver mailbox.

SMTP Server: the SMTP server for the sender mailbox

Need Authentication: if the sender mailbox need authentication, you should check it then input the SMTP username & Password.

Mail test: Please set the Mail parameter and click "Submit" first. There are Mail test result.

Gmail also set as the same

Figure5.5

1 Can not connect to the server

2 Network Error. Please try later

3 Server Error

4 Incorrect user or password

5 The sender is denied by the server. Maybe the server need to authenticate the user, please check it and try again $_{\circ}$

6 The receiver is denied by the server. Maybe because of the anti-spam privacy of the server

7 The message is denied by the server. Maybe because of the anti-spam privacy of the server

8 The server does not support the authentication mode used by the device **Report Internet IP by Mail:** When ipcam port or Internet IP changed, it will send the internet IP by mail. Make surethe port is map to the router correctly by UPNP or Virtual Map function.

2)FTP Server use and settings

If you already have an FTP Server (ipcam. com) and email ipcam, you can fill the parameters as below:

IPCAM User Manual

			Device Infe
	Ftp Service Setti	ęs	Alias Settings
FTP Server	ipcam.com Date&Time Settings		Date&Time Settings
FTP Port	21		Users Settings
ETD Line	linesee		Multi-Device Settings
r 1F 030	Inform		Basie Network Settings
FTP Password	*****		Wireless Lan Settings
FTP Upload Folder			UPsP Settings
FTP Mode	PORT .		DDNS Service Settings
	Test Please	et at first, and then test	Mail Service Settings
Upload Image Now	Г	Device(test01) - Microsoft I	nternet Explorer
	Submit Refi	sh File Edit Wew Favorites 1	look Help
		Gainte - O - 💌 😰	🐔 🔎 Search 👷 Favorites 🕐
		Address N/tp://192.168.1.111	6999/test_Rp.htm
		Test Succeed	

Figure 5.6

FTP Server of LAN as below:

1. Creat an account

	ser Account wizard	
Show Server Loc Show User Accor	Account Name	ccount Wisard
Show Configurat Show Security Se Show Security Se Show Server Sto Show Server Sto Show Server Sto Show Server Sto	When you want uses to commod to the FTP server you wend a valid account. Type the name of the account you want to create (Line Harre) Account Name: FC4M Create an anonymous account	kccourrs Ame
i Onine Support a Frequently Adve		ity Settinge



What kind of permissions would you like to give	
what kind of permeetone would you like to give	e this account on the home directory?
I▼ Allow Download	
Allow Upload	
🔽 Allow Rename	
🔽 Allow Delete	
Allow Create Directory	
Allow Directory Listing (recommended)	

User Account Wizard	
	You have successfully entered all of the information required to create a new account.
	To save these settings, click Finish.

Figure5.8



art Stop Home Setup General Tasks 🛞	Configuration -			Ē
Show Server Log Show User Accounts	General Advanced	Events		
Show Configuration	FTP port: 21 Max. connections: 10		Connection timeout (in minutes): Max. connections per IP:	5 3
Show Online Users Show Server Statistics	Welcome message: Welcon	me to Quick 'n Ea	isy FTP Server	
Show Incoming Messages	Goodbye message: Bye			
Show Configuration Help Frequently Asked Questions	Startup settings Launch FTP Server at Wi Automatically activate ser Startup <u>m</u> inimized in system	indows <u>s</u> tartup ver at startup mtray	Logging Loglevel: E <u>V</u> iew	Error 💌 Cl <u>e</u> ar
	PASV settings IP address: 192.16 Port range: 1024	8.1.150	5535	Configure

Figure 5.9

ver View Iools Help					
art Stop Home Setup Seneral Tasks 🛞	User Accounts 👻				
Show Server Log	Users	General	Virtual Directories	Advanced	Info
Show Configuration Show Security Settings Show Online Users Show Server Statistics Show Incoming Messages		Password:	bisable this accor Disable this accor User can change Enable remote ad	unt password (SITE ministration for thi	PSWD) s user
cor Account Tacks		Path:	C:\Documents and S	iettings	
Add New User Copy this User Copy this User Delete this User Launch User Account Wizard		Permissions:	Allow Download Allow Upload Allow Delete Allow Bename Allow Create Direc Allow Directory Lis	ctory sting (recommend	rowse
irtual Directory Tasks 🛛 🛞					

Figure 6.0

5. IP camera s FTP Server set

		<u>*</u>	Device Infe	
	Ftp Service Settings		Alias Settings	
FTP Server	192 168.1.150		Date & Time Settings	
FTP Part	21		Users Settings	
PTD II	(DOCAN)	-	Multi-Device Settings	
rirusa	IPCAM		Basic Network Settings	
FTP Password	*****		Wireless Lan Settings	
FTP Upload Folder			UPsP Settings	
FTP Mode	PORT -		MSN Settings DDNS Service Settings	
	Test Please set at f	irst, and then test.	Mail Service Settings	
Upload Image Now	Г	Device(test01) - Microsoft Internet to	plorer	
	Submit Refresh	File Edit View Pavorites Tools Helt	,	
		🕑 🖙 - 🕑 - 💽 📓 🟠 🌶	🔿 Search 🤆 Favorites 🕢	
		Address http://192.168.1.111:8999/test_	ftp.htm	
		Test Succeed		



6. Set up and complete testing is successful,when it alarms, IP camera will upload pictures to the FTP server Settings of main directory path (as shown)

IPCAM User Manual

📇 My Documents			<u>- 0 ×</u>
File Edit View Favorites Tools	Help		
🕞 Back 👻 🕥 🔻 🏂 🔎 Searc	h 🜔 Folders 🛛 🕼 🎲 🗙 🗳)	
Address 🔲 My Documents			💌 🋃 Go
Game4	My Music	My Pictures	
VideoPower	Videos	00606E60FB17(test01)_0_20 640 x 480 JPEG Image	
00606E60FB17(test01)_0_20 640 x 480 JPEG Image	00606E60FB17(test01)_0_20 640 x 480 JPEG Image	00606E60FB17(test01)_0_20 640 x 480 JPEG Image	
00606E60FB17(test01)_0_20 640 x 480 JPEG Image	00606E60FB17(test01)_0_20 640 x 480 JPEG Image	00606E60FB17(test01)_0_20 640 x 480 JPEG Image	
00606E60FB17(test01)_0_20 640 x 480 JPEG Image	00606E60FB17(test01)_0_20 640 x 480 JPEG Image	00606E60FB17(test01)_0_20 640 x 480 JPEG Image	

Figure6.2

FTP Server: the FTP server address.FTP port: the port usually is 21FTP Mode: support standard(POST) mode and passive(PASV) mode.Upload Image Now: it wil upload image now when checkbox is not checked. When checked, you can input upload interval(Seconds)

3.5.6 Motion Detection

Enter Alarm Service Settings page to configure Motion Detection function.

Motion Detect Armed

When you enable motion detect armed, the camera can be triggered to send email alerts and record images. In the camera monitoring page, the green icon turn to red and an



Motion Detect Sensibility

Input Pins: The input pins can be used for 1-way external sensor input. For example, you may connect a Person Infrared Sensor (PIR) to it for motion detection. When external sensor triggered, IPCAM can be programmed to send an email with picture or

control the internal relay output.

If you link a external alarm with Pin3 and Pin4, when enable alarm input armed, external alarm is enabled.

Send Mail on Alarm

Sent picture and mail inform to customer s e-mail after alarmed.(firstly you should finish

		Device Info
	Alarm Service Settings	Alias Settings
Motion Detect Armed		Date&Time Settings
Motion Detect Sensibility	5 -	Users Settings
		Multi-Device Settings
Alarm Input Armed		Basic Network Setting
IO Linkage on Alarm		Wireless Lan Settings
Send Alarm Notification by Mail		UPnP Settings
		MSN Settings
Upload Image on Alarm		DDNS Service Settings
path	C:\Documents and Setting SC IL.	path Mail Service Settings
Scheduler		Ftp Service Settings
		Alarm Service Settings
	Submit Refresh	Upgrade Device Firmwar
		Backup & Restore Settin
		Restore Factory Setting
		Reboot Device
		Log
		Back

Figure6.3

Upload Image on Alarm

E#
42 Y
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upload
<mark>ag e</mark> mail an
etting



REC automatically and save to PC

When you enable motion detect and open the camera monitoring page on the PC. If

there is an alarm triggered, REC wil start automatically for several seconds and save to

		Device info
	Alarm Service Settings	Alias Settings
Motion Detect Armed	P	Date&Time Settings
Motion Detect Sensibility	5 *	Users Settings
About Accord		Multi-Dwice Senings
		Wireless Las Settings
to theage in Marin		UPaP Settings
Send Alarm Notification by Mail	P	MSN Settings
Upload Image on Alarm	P	DDNS Service Settings
Upload Interval (Seconds)	2	Mail Service Settings
path	C VDocuments and Setting path	Fip Service Settings
Calculul as		Alarm Service Settings
PCDEDLECE	and a second sec	Upgrade Device Firmware
	Submit Reliesh	Backup & Resture Settings Resture Encours Settings
		Rebeat Device
		Log

Figure6.5



Figure6.6

4 HOW TO USE

4.1 Step by step to use

Fol ow the instructions below to get started after the Camera has been mounted properly. When the IP camera powered on, it wil rotate itself and stop to the center.

1) Use Network cable connect IP Camera to LAN.



2) Enter **IP Camera Tool** to set the basic configuration.(details: 3.1)

3) When IP address of the Camera listed in the Result Field of the **IP** Camera Tool, it means the basic configuration is completed.

- 4) set the safety property of IE in the PC when you view it first time.(details: 5.1.3)
- 5) Camera login(details:3.2)
- 6) Now you can use the IP Camera as Visitor, Operator or Administration in the LAN.

4.2 Setting Wi-Fi of IP Camera

To use the wireless functions of the IP Camera, a wireless router like linksys is required.
 Enter the wireless router setup page(you may see the *wireless router user manual*). To Find out the SSID, Channel(less than 10), Security Way(NONE,WEP), Authentication Type, encryption.

3) Enter Wireless LAN Settings to input contents gotten from the wireless router then click Submit to reboot the device.

NOTE: This product only supports WEP encryption.

Figure6.7

- 4) Wait at least 30 seconds to unplug the ethernet cable, then unplug the power supply.
- 5) Plug the power supply making sure that the ethernet is not connected
- 6) After around 30 seconds, if the LED blinks ,it indicates it is working in wifi mode
- 7) Camera login.(details:3.2)

4.3 Using a router to access the Internet

Using a router to access the Internet by shared ADSL If a router is set for dial-up Internet access, it is not required to set ADSL dial-up account and password on the IP Camera.

User Manual





1) Use Network cable connect IP Camera to the LAN.

2) Enter IP Camera Tool to set the basic configuration.(details:3.1)

3) login the Camera homepage as Administration

4) Enter **DDNS Settings Page** and ennable DDNS service.Click <submit> and the device will reboot.(detail:3.5.4)

Figure6.9

- 5) How to use DDNS service (detail:4.5)
- 6) You can access the Camera from Internet by domain name.

4.4 Static IP user

Static IP user is not need to use DDNS for remote access. When finished the setting of the IP Camera in LAN, you can access the Camera directly from Internet by the WAN IP. You can obtain the WAN IP by two ways.

Obtain the WAN IP from some Website

You can discover this easily by opening on a computer using the same connection as the IP camera and entering this address: <u>http://www.whatismyip.com.The</u> page at this address wil show you the current WAN IP. WhatIsMyIP.com



IP Address (Internet Protocol Address): This number is an exclusive number all information technology devices (printers, routers, moderns, et al) use which identifies and allows them the ability to communicate with each other on a computer network. There is a standard of

Figure7.0

According to MSN and IP camera built-in account access (details:3.53)

Obtain the WAN IP address from the router

Take the WRT54G router of LINKSYS for example,

1) Obtain the IP address of the router(LAN gateway address), user name and password for logon to the router from the network administrator,

2) Enter the LAN IP address of the router(LINKSYS WRT54G default:192.168.1.1) in the address bar of the IE to log on to the router; Open the **Status** page to find out the WAN address of the router.



Figure7.1

Access the IP Camera from the Internet

User can access the IP Camera from the Internet, Enter WAN IP address + port number in the IE to access IP Camera.

Note: Make sure the Port mapping is success. You can do port mapping by two ways: I Enter setting page of the router which IPCAM connect with to enable UPNP function. Enter IPCAM "UPnP Settings" to enable UPNP and make sure the state is "UPnP success".

I If your router has the Virtual Map function. Enter router setting page, add IP CAM s IP and port to the Virtual map list.

4.5 How to use DDNS

When use ADSL, the IP Camera will connect to the Internet through ADSL automatically. For each ADSL reconnection, ISP wil re-assign a new IP address for the IP Camera to facilitate the access. DDNS(Dynamic Domain Name Server) can map the dynamic IP address of an IP Camera to a fixed domain name. Therefore, we can access the IP Camera by the fixed domain name whether the IP address changes or not. The IP address is not necessary when you using the DDNS via the domain name to find your network. 1) Go to the website which Provides free domain name, register and apply a free domain name. such as <u>http://www.dyndns.com(details:5.1.6</u>).

2) login the Camera homepage as Administration and enter "DDNS Service Settings" page input the name, password and Host(details: 3.5.4) .Then click <SUBMIT> and reboot Device.

3) Re-login the Camera homepage and enter"DDNS Service Settings"page to check the DDNS Status is DynDns Succeed or not.

4) Enter"**UPnP Settings**"page,the **UPnP Status** should be **UPnP Succeed.**If the status is not **Succeed**, you may enter "**Basic Network Settings**" page to change Http Port (details: 3.5.2). Then click **<SUBMIT>** and reboot Device.

5) Re-login the Camera homepage to check and make sure the DDNS Status and UPnP Status is Succeed.

Figure7.2

6) You only need to enter the domain name(domain name+Port number

in the IE address bar ,the browser wil visit the IP

Camera.Wait for several minutes and the IP Camera wil dial up to access the Internet automatically, and the communication with the DDNS server is established successfully. In the way, the user can access the IP Camera from a WAN by using the DDNS domain name.

If the gateway settings and DDNS settings have been completed, ener the DDNS dynamic domain name.

in the address bar of the IE to access the IP Camera.If multiple IP Cameras are connected to the same router,enter DDNS dynamic domain + port number(in the address bar of the IE to access different IP

IPCAM User Manual

Cameras. You will view the pictures as below:

Figure 7.3



Add more devices:

Figure7.5

5 APPENDIX

1.1 Frequently Asked Questions

Note:

- 1) Any question you would meet, please check Network connections firstly.
- 2) Check the working status revealed by the indicators on the network server, hub, exchange and network card. If abnormal, check the network connections.

1.1.1 I have forgotten the administrator username and/or password.

To reset the administrator username and password, Press and hold down the RESET BUTTON for 5 seconds. Release the power button and the username and password will be reset back to the factory default administrator username and password. Default administrator username: **admin** Default administrator password: **No password**

1.1.2 IP Address configuration

Check whether IP address of the IP Camera server shares the same subnet as your work station: Click My Computer > Control Panel>Network & Dial-up Connections > LAN > Attributes >Internet Protocols (TCP/IP), and check IP Address and Subnet Mask. Make sure they are in the same subnet when configuring IP Camera IP

address manually.Unable to access IP Camera via web browser

1.1.3 Network Configuration

Double Check to ensure that your HTTP server software is configured and running properly. If you re running any firewall software, make sure it s allowing inbound connections to port 80,Also, if you happen to be using a cable/DSL router, make sure you ve set up port forwarding properly. (consult your router s documentation for more information). If none of these seem to be the problem, it s also possible that your ISP is blocking inbound connections to port 80 –many IPSs have done this because of internet worms such as Code Red, If this is the case, you "II have to setup your HTTP server on an alternate port (such as 8080).

5.1.4 No pictures Problems with ActiveX Controller

The video streaming is transmitted by the ActiveX controller. If ActiveX control er isn t installed correctly ,you will see no video image. There are two way to solve this problem:
1) Install "IP Camera Tool", ActiveX controller is installed simultaneity

(recommendable).

2) download ActiveX controller and set the safety property of IE in the PC when you view it first time: "IE" browserà "Tool"à "Internet Proper"à "Security"à "Custom Level"à "ActiveX control and Plug-ins" three options of front should be set to be "Enable", The ActiveX programs read by the computer wil be stored. as fol ows:

Enable: Download unsigned ActiveX controls

Enable: Initialize and script ActiveX controls not marked as safe



Figure 7.6



Figure7.7

5.1.5 Problems with network bandwidth

The image frame rate is subjected to the following factors: 1.network bandwidth; 2. PC performance, network environment and display preference setting (brightness, theme, etc.); 3. the number of visitors (Too many visitors wil slow down the image frame rate.); 4. choice of switch or hub (Use a switch for multiple IP Camera Servers rather than a HUB.).

5.1.6 For example: Register procedure from a DDNS web

1.Users use DDNS management system first time.Users need to apply account to manage and inquire the domain state.

Step1: enter <u>http://www.dyndns.com/</u> and Create Account.(Fill in Domain Name .dyndns.org then Click Add)



Figure7.8

Step2: enter your information

Figure7.9



Figure8.0

Step3: After a minute, you wil receive an E-mail from **DynDNS Support** and it will give you a confirmation address

(e.g. https://www.dyndns.com/confirm/create/e-YS60Gz9oBASMm7rbO6AA

Your DynDNS.com Account 'har1119' 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/e-YS60Gz9oBASMm7rbO6AA

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 communication you will receive. All non-confirmed accounts are automatically deleted after 48 hours, and no addresses are kept on file. We apologize for any inconvenience this correspondence may have caused, and we assure you that it was only sent at the request of someone visiting our site requesting an account.

Sincerely, The DynDNS.com Team Dynamic Network Services Inc.

)

Step4: Open the link to active your Domain Name as below.



I J /yr	general management	The second starting
Up to 30 Pro domain cames	Up to 30 Pro domain names	Up to 2 domain mames
Nerver explanes, just works	Cifartioss automatic renewals	Up to 36 days of account inactivity
250+ domain names to choose from	Upgrade to yearly plan any time	Upgrade to Proleny time
Phone support and priority email support	Priority must support	Presional and community support
Add DynDNS Pro	Continue ×	My Account >

Figure8.1

			-
Why DynDNS.com?	Services & Pricing Support	Welcowe har1119 (FREE)	My Account Los
ly Account	Shopping Cart		_
Services	Your cart contains fives services only. You will not be as	ked for credit card information.	
count Settings	Revenues des Bestinaire		
ton Services Io Renew Selfings der History Ins Drafile	Pree accounts allow only two Dynamic DHS hosts. • To add more and enjoy additional benefits for only • To get Dynamic DHS for your own domain, use <u>C</u>	615.00 per year, <u>austriae Dynamic DNS Pro 🦓</u> arbin DNS	all'
	rectast.deds.org	remove	\$0.00
	Please enter coupons in the box below and click "A	dd Couperv". Sub-Total:	\$0.00
Dyn		Order	Total: \$0.00
	Would you like to print an estimate Spote?		Nest >:

Figure8.2

	DNS.com	What are you in	aking for ?	Sear
Why DynDNS.com?	Services & Pricing Support	Webc	rns har 111 @ (REE)	marit Lo
My Account	Free Services Checkout			
'ty Services			am.	
Account Settings	Lince you have confirmed the contents of y	our cart your services will be instantly activat	ed.	
Account Settings	Cince you have confirmed the contents of y	our cart your services will be instantly actival	Period	Price
Account Settings Hilling Actes Geneicus	Cince you have contrined the contents of y Service Dynamic DNS Hosts	our cart your services will be instantly actival	Period	Price
Account Settings Billing Active Services Into Perene Settings	Once you have confirmed the contents of y Service Dynamic DNS Hosts cectest.chrdxs.org	our cart your services will be instantly actival	Period	Price \$0.00
Account Settings Stilling Actes Services Auto Renew Settings Order Hatory Hitro Profile	Once you have confirmed the contents of y Service Dynamic DNS Hosts reclast: dyndre.org	our cart your services will be instantly actival	Period Sub-Total:	Price \$0.00 \$0.00

Figure8.3

Step6: Now you obtained a Dynamic Domain Name(Figure 8.4),and can use it in the DDNS Service Settings(details: 3.5.4)

			DHG & C	konaine Ensele	Services -	Performance & Security
) DynL	DNS.com		What	ara yuu laaking	for?	Searc
Why DynDNS.com?	Services & Pricing	Support	Welco	ne har 1119 (rwcc)	Ny Accou	e Ny Cart Log
ly Account	Host Services					1 My Ser
y Services			N			
mantic DHS Pro	Hostname	Service	Details		<u>u</u>	est Updated
iernet Guide	neatest1.dynchs.org	Host	113,87,251,16	Je	n. 18, 2011	9:06 PM
κ.						
mini Support	- Hest Update Logs					Add New Host
na Laval Servican main ragionation and rader, CHS hosting: ul conston						
nt Services marcic CHS hosts, Widstlop 5. Forwarding	Join the discussion in the D	mDNS Community for th	os and tridos, damos, sug	gestions, user he	lp and much	i mara.
must SMB	Check out what our users a	re talking about below:		C DenDNS Comm	10	1927 2422

Figure 8.4

2. Fill the DDNS account you applied in DDNS Settings, If it success, it will show as below

IPCAM User Manual

		and the second s
		Device Info
	DDNS Service Settings	Alias Settings
DDNS Service	DynDns.org/dyndns) *	Date&Time Settings
DDMS II.er	Bog1119	Uters Settings
	Print P III	Multi-Device Settings
DDNS Pasaword		Basic Network Settings
DDNS Hosmanie	nectest1.dyndns.org	Wireless Lan Settings
Re-Update Ignoring All Errors	rever do this unless your hostname has been unblocked	UPaP Settings
	Submit Refresh	DDNS Service Settings
	and the second s	Mail Service Settings
		Etp Service Settings
		Alarm Service Settings
		Upgrade Device Firmware
		Backup & Restore Settings
		Rentere Factory Settings
		Reliest Device
		Reliest Device Leg

	Figure 8.4	A Device Info
	Devico Status	Alias Settings
Device ID	00606E60FB17	Date&Time Settings
Desire Firmspore Version	0.22.235	Users Settings
Family Exchanged High 11 Hardon	0.140	Multi-Device Settings
Device Entreded web of version	0.24.0	Wirelass I as Settings
Abar	JOINE	UPaP Settines
Alerm Status	None	MSN Settings
DONS Status	DynDns Succeed http://neotest1.dyndns.org8000	DDNS Service Settings
UPnP Status	UPaP Succeed	Mail Service Settings
Michi Chatan	Descend	Etp Service Settings
MIDTY CORPOR	Alarm Service Settings	
	Refresh	Upgrade Device Firmware
		Backup & Restore Settings
		Rentore Factory Settings
		Reliest Device
		Leg

Figure8.5

3. How to test whether DDNS is on-line?

Click Start > Running >input CMD then click Enter,test DDNS by PING as below:

IPCAM User Manual

C:\WINDOWS\system32\cmd.exe
 Microsoft Windows XP [Uersion 5.1.2600]
 (C) Copyright 1985-2001 Microsoft Corp.
 C:\Documents and Settings\TEST>ping neotest1.dyndns.org:8999
 Pinging neotest1.dyndns.org:8999 I59.37.71.871 with 32 bytes of data:
 Reply from 59.37.71.87: bytes=32 time=37ms TTL=58
 Ping statistics for 59.37.71.87:
 Packets: Sent = 4, Received = 4, Lost = Ø (0% loss),
 Approximate round trip times in milli=seconds:
 Minimum = 36ms, Maximum = 37ms, Average = 36ms
 C:\Documents and Settings\TEST>

Figure 8.6

The DDNS can return the web response information by PING.It tells you that DDNS is on-line.If DDNS failed to update!There should be two reasons:1)DDNS parameter Settings incorrectly.2) DNS address configuration is wrong.

DDNS Service Operation:Creat Account > Login/Management > Setting up DDNS > Configurate IPCAM parameter

5.1.7 Why pop-up the prompt "Fail to connect to the device..."?

This prompt only appeared in the case of using multiple cameras. Enter the **Multi-Device Settings** page(login as administrator) to check the Device setting is correct or not.

When one of the multiple cameras disconnected, the color changed to

yellow and pop-up the prompt"Fail to connect to the device...".

Figure 8.7

5.1.8 Can't access the IPCAM in the internet?

There are some reasons:

1 ActiveX controller is not installed correctly(see more details:5.1.4).

2 The port IPCAM used is blocked by Firewal or Anti-virus software. Please change a port number and try again.

3 Port mapping is not success. You can do port mapping by two ways:

I Enter setting page of the router which IPCAM connect with to enable UPnP function.

Enter IPCAM "UPnP Settings" to enable UPnP and make sure the state is "UPnP success".

I If your router has the Virtual Map function. Enter router setting page, add IPCAM s IP and port to the Virtual map list.

When use ADSL, the IP is dynamic. You should set DDNS(see more details 3.5.4 & 5.1.6) and also make sure port mapping success.

5.2Operate common problem solving

IP camera tool can't find the camera?

Except of the camera broken

1. Make sure the cable connector no problem, recommend connector (AMP), it is with international standard. Another note, IPCAM's data transmission channel require higher than computer's, so maybe the computer can run normally but IPCAM can't, Please press heavily when making the cable connector.

- 2. Confirm the power supply normally. First, check whether power indication light turn on or not, If it is on,then check the yellow light on RJ45 Port (power indication light) and green light (network indication light) are on or not. If they are on,so power supply and cable runs normally.
- 3. Confirm all the firwall and antivirus software are close. The firewall often block unrecognized data so if the firewall is running ,so maybe the IPCAM TOOL can't find the device. Suggest to close firewall and antivirus software temporarily before searching.

How to solve the camera blank screen?

- 1. Check if you are using the wrong power adaptor.please use original one.
- 2. Close antivirus software.

How to solve the camera can't login by Internet?

- 1. Check if you set DDNS success or not?
- 2. Check the current IPCAM's port number is the same as router's?They need to keep same.

Can't view the monitoring picture

- 1. Reason: can't connect with network
 - Solution:Check if the network connect well, exclude cable fault and PC virus cause network fault until can be used between PC and PING.
- 2. Reason:IP address occupy by other device Solution: Choose automatic gain
- 3. Reason: IP address located within different subnet Solution: Check IPCAM'S ip address and subnet mask address and gateway settings.

Reason:Web port has been modified

Solution:contact network administrator to obtain port information.

4. Reason:unknown

Solution:Press reset button to factory default state,then reconnecting.systen default to gain ip address automatic,subnet mask is 255.255.255.0

5.3 IPCAM special use

5.31 Use vlc player and mplayer to play ip camera audio data prompt.

(parameter: /videostream.asf?user=&pwd=&resolution=&rate=)

Show as below:



Figure 8.8

As figure 8.8 shows IPCAM current ip address is <u>http://192.168.1.111:8999</u> Internet ip address, you can view video of

VLC media player 1edia Playback <u>A</u> udio <u>V</u> ideo <u>T</u> ools View <u>H</u> elp	
<u>1</u> edia Playback <u>A</u> udio <u>V</u> ideo <u>T</u> ools View <u>H</u> elp	
84	

Figure 8.9

Open broadcast position by "VLC media player":

-	rec media piayer		
Med	dia Playback <u>A</u> udio <u>V</u> ideo	Tools View He	lp
	Open File	Ctrl+O	
	Advanced Open File	Ctrl+Shift+O	PI 10 1005
	Open Folder	Ctrl+F	
0	Open Disc	Ctrl+D	1.00x:/:
	Open Network Stream	Ctrl+N	
	Open Capture Device	Ctrl+C	
	Open Location from clipboard Recent Media	Ctrl+V	
	Save Playlist to File	Ctrl+Y	
	Convert / Save	Ctrl+R	
((•))	Streaming	Ctrl+S	
×	Quit	Ctrl+Q	NAME OF TAXABLE PARTY.

Figure9.0

LAN broadcast address:





Figure 9.2

Open the Internet play position:



Watch ip camera send streaming format video as show below:

🛓 http	p://szneo	1.dynd	ns.org:	8999/\	videos	stream.asf?user=admin&pwd=&resolution=32&rate= - VLC 💶 🗙
Media	Playback	Audio	⊻ideo	Tools	View	Help
		x = 5	2. A			- D0
	144			:= 11		
http://	/szneo1.dy	ndns.org	g:8999/\	videostr	eam.as	sf?user=admin&pwd=&resolution=32&rate= 1.00x 02:04/:

Figure 9.4

5.32 Set the camera miscellaneous parameters

Grammar:

/set_misc.cgi?led_mode=&ptz_center_onstart=&ptz_auto_patrol_interval =&ptz_auto_patrol _type=& ptz_patrol_h_rounds=& ptz_patrol_v_rounds=& ptz_disable_preset=&user=&pwd=&next **Parameter:** led_mode: 0: mode;1:mode;2: turn off indicator light ptz_center_onstart: ptz_auto_patrol_interval: =0: doesn't auto patrol interval ptz_auto_patrol_type: 0: None;1:horizontal; 2:vertical;3:horizontal &vertical ptz_patrol_h_rounds: ptz_patrol_v_rounds: ptz_patrol_rate: ptz_patrol_up_rate: ptz_patrol_down_rate: ptz_patrol_left_rate: ptz_patrol_right_rate: ptz_disable_preset:

5.4 Default Parameters

Default network Parameters

IP address: dynamic obtain Subnet mask:255.255.255.0 Gateway: dynamic obtain DHCP: Disabled DDNS: Disabled **Username and password** Default administrator username: **admin** Default administrator password : No password

5.5 Specification

ITEMS		ІР САМ
	Image Sensor	1/5" Color CMOS Sensor
Image Sensor	Display Resolution	640 x 480 Pixels(300k Pixels)
	Lens	f: 3.6mm, F:2.4 (IR Lens)
	Mini.	0.5Lux

	Illumination	
Long	Lens Type	Glass Lens
Lens	Viewing Angle	67Degree
	Image Compression	MJPEG
Video	Image Frame Rate	15fps(VGA),30fps(QVGA)
	Resolution	640 x 480(VGA), 320 x 240(QVGA)
	Flip Mirror Images	Vertical / Horizontal
	Light Frequency	50Hz, 60Hz or Outdoor
	Audio Function	Two-way Talk
	Video Parameters	Brightness, Contrast
Communication	Ethernet	One 10/100Mbps RJ-45
Supported Protocol	Supported Protocol	HTTP,FTP,TCP/IP,UDP, SMTP, DHCP, PPPoE, DDNS,UPnP, GPRS
	Wireless Standard	IEEE 802.11b/g
	Data Rate	802.11b: 11Mbps(Max.) 802.11g: 54Mbps(Max.)
	Wireless Security	64/128-bitWEP Encryption
	Pan/Tilt Angle	Horizontal: 270° & Vertical: 90°
	Infrared Light	24 IR LEDs, Night visibility up to 20 meters
	rm Input	1 Channel on/off input
	Alarm Output	1 Channel relay output
Dhusiaal	Product size	160(L) x80(W) x80mm(H)
Physical	packing size	245x185x120mm
	Carton size	82x37x22.3cm
	Q'ty	10pcs/CTN
	Weight	N.W:6.7kgs;G.W:7.8kgs
	СВМ	0.068CBM/CTN
Power	Power Supply	DC 5V/2.0A

	Power Consumption	5 Watts (Max.)	
	Operate Temper	0° ~ 55°C (14°F ~ 122°F)	
	Operating Humidity	20% ~ 85% non-condensing	
Environment	Storage Temper	-10°C ~ 60° (14°F ~ 140°F)	
	Storage Humidity	0% ~ 90% non-condensing	
PC Requirements	CPU	2.0GHZ or above (suggested 3.0GHz)	
	Memory Size	256MB or above (suggested 1.0GHz)	
	Display Card	64M or above	
	Supported OS	Microsoft Windows 2000/XP/Vista	
	Browser	IE 5.0, IE 6.0, IE7.0, IE8.0, firefox2.0, firefox3.0 or other standard browsers	
Certification	CE,FCC,ROHS		
Warranty	Limited 1-year warranty		