

# netCAM

## **User's Guide**

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#### **Revision History**

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## Table of Content:

Revision History	2
Table of Content:	2
1. Product Overview	4
1.1 Introduction	4
1.2 Sample Environment	4
1.3 Package Contents	4
1.4 Hardware Features	5
1.4.1 Exterior	5
1.4.2 Image	5
1.4.3 Hardware/System	5
2. netCAM Installation	6
2.1 System Requirements	6
2.1.1 Local Area Network:	6
2.1.2 System Requirement:	6
2.2 Network Configuration	6
3 Using netCAM	8
3.1 Functions	8
3.1.1 Camera View (Main Page)	8
3.1.1.1 ActiveX	9
3.1.1.1 Config	9
3.1.2 Image Control	9
3.2 Network/Admin	
3.2.1 Basic Setup	
3.2.2 Network Status	13
3.2.3 System/Client Logs	13
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3.2.4 Device Admin (Multiport Setup)	
3.2.5 PPPoE Setup	15
3.2.6 Dynamic DNS	16
3.2.7 FTP Service	17
3.2.8 User Management	
3.2.8.1 Security Levels:	
Appendix A - Restore Factory Default Settings	
Appendix B - Factory Default Value	20
Appendix C - How to Setup <i>ActiveX</i> functions for your PC	22
Appendix D - How to setup IP address of your PC	23



#### **1. Product Overview**

#### **1.1 Introduction**

Thank you for choosing 3JTech products for netCAM. netCAM is a colored camera with Built-in IP address, Ethernet Software Stacks and Protocols. Plug netCAM directly to a RJ45 Ethernet port and you will be able to watch camera sites real-time anywhere in the world. Furthermore you will be able to control the camera from any PC/Notebook over the Internet through a standard web browser. Connecting directly to Ethernet network system, netCAM is a standalone digital network camera with a built-in CPU and web server transmitting high quality images.

#### **1.2 Sample Environment**



#### **1.3 Package Contents**

- 1 x netCAM Camera.
- 1 x Warranty Card.
- 1 x Operating CD (User's Manual/Software)
- 1X Quick Installation Guide.
- 1 x RJ45 Ethernet cable.
- 1 x RJ22 Power Adapter & Trigger I/O Connection.
- 1 x For US standard AC plug



#### **1.4 Hardware Features**

The following information contains the physical description of netCAM. This includes the functions and the locations of each connector and indicator. The information provides useful reference when installing the product. Please familiarize yourself with netCAM.

#### 1.4.1 Exterior

Camera Sensor Micron VGA CMOS Sensor 1/4Resolution640x480Illumination2.0 LuxLensF: 4.5 mm, F: 2.8

#### 1.4.2 Image

Video Format	JPEG/MJPEG
Frame Rate	30fps@QVGA, 20ftp,
15fps@VGA	
Video Resolution	320x240, 640x480
Light Frequency	50Hz, 60Hz
Brightness control	Yes
Contrast control	Yes
Saturation	Yes



SW\_1: H/W Power Reset

#### 1.4.3 Hardware/System

CPUARM7 32bit RISC CPUSDRAM16 MBFlash ROM2 MBOS Linux2.4 kernelImage Processor TOPRO TP6800Ethernet RJ-45, 10/100 Base-T auto-sensed

Note: User will be able to update and download the latest firmwares via internet.

SW\_2: Software reset and reset to default IP (192.168.1.99)
Please hold for 5 seconds )



### 2. netCAM Installation

#### 2.1 System Requirements

#### 2.1.1 Local Area Network:

10Base-T Ethernet or 100BaseTX Fast Ethernet

#### 2.1.2 System Requirement:

ActiveX Enabled and Compliant Web Browser (e.g. Microsoft Internet Explore 5.0 or later) CPU: Pentium III, 450MHz or above Memory Size: 128MB recommended VGA card resolution: 800x600 or above (e.g. support Overlay function VGA card) OS (Operating System): Windows XP, 2000 Other suggestion requirement: CD-ROM.

#### 2.2 Network Configuration

You will require to download ActiveX applets in order to view your camera. Before you connect to the camera, please open your web browser and enter <u>http://61.56.193.43</u> to obtain the applet.



To begin configuring netCAM, please enter the default IP address (192.168.1.99) in your web browser. administrator **user's name** and **password** when netCAM is accessed.

netCAM can be manually configured if you cannot connect to the netCAM. You will have to modify your local network settings. For more detail please see *Appendix D - How to setup IP address of your PC.* 

Default Use's name: root Password: admin

連線到 192.168.1	.100 🛛 🖓 🔀
7	GR
Welcome to wifiCA	М !
使用者名稱(U):	🖸 root 🔽
密碼(P):	****
	☑記憶我的密碼(R)

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netCAM requires an IP address for users to access. There are three different IP configurations; PPPoE, DHCP and Fixed IP.

If you are using dial up ADSL connecting to the Internet, it is recommended to select **PPPoE** as default connection. If your network supports DHCP, simply select **DHCP**. Otherwise, you might have to assign a fixed IP for netCAM. The factory default is on fixed IP mode. Connect your netCAM to the network by plugging a RJ-45 Ethernet wire between the device and your local network socket.

The factory defaults of your netCAM are listed below:

IP Address	192.168.1.99
Netmask	255.255.255.0
Gateway	disabled
DNS	disabled

You will need a client PC to configure the netCAM via network. It is recommended to use the following settings on your PC. (more details in *Appendix D - How to setup IP address of your PC*)

IP Address	192.168.1.11		
Subnet mask	255.255.255.0		
Gateway	disabled		
DNS	disabled		

Launch your web browser (e.g. IE or NETSCAPE) and type the IP address <u>http://192.168.1.99/</u> on the address bar of the browser and press "Enter". Once successfully connect to netCAM, you will be able to see login pages.

Note: *ActiveX* functions need to be activated on your computer to setup netCAM. (more details in *Appendix C -How to Setup ActiveX functions of your PC.*)



### 3 Using netCAM

Before using netCAM, users must have Active X control installed on the computer or notebook.

The camera's default screen will appear as the shown below upon successful log in. If the picture screen does not appear or Internet Explore shows an error page, refer to the troubleshooting section in *Appendix C - How to Setup ActiveX functions of your PC*.



netCAM has 2 main sections for its operation; **ActiveX** and **Config**.

Supporting Web Browsers: Internet Explorer 5.0 or above Netscape 6.0 or above

#### **3.1 Functions**

#### 3.1.1 Camera View (Main Page)

netCAM will take a snapshot when initiated. The taken picture will be pasted on the webpage shown as the figure below. On top of the screen, there are 2 main functions; **ActiveX** and **Config**.





#### 3.1.1.1 ActiveX

Click on **ActiveX** will enable the live stream camera image. You will be able to view live feeding images through the website. If you wish to terminate the Live Video, click "*netCAM*" to return the netCAM main page.



#### 3.1.1.1 Config

You will be able to setup the camera though **Config** function.

#### 3.1.2 Image Control

**Image Control** will change image's color and illumination. You can regulate "Video Resolution", "Frame Rate", "Light Frequency "and "Color Control".

Image Control				
Video Resolution : Quality : Frame Rate : Auto Exposure : Auto White Balance :	<ul> <li>320 x 240 • 640 x 480</li> <li>Best Medium Worst</li> <li>15 20 30 (Frames/Sec)</li> <li>Enable Disable</li> <li>Enable Disable</li> <li>Hue : Red - 50 Green - 50 Blue - 50</li> <li>Hue Number - 50</li> </ul>			
Brightness : Contrast : Saturation : Light Frequency :	30 40 40 ○ 50Hz ● 60Hz Apply Undo			

#### 3.1.2.1 Video Resolution: 320\*240 / 640\*480:

Set the camera output video resolution size. Higher resolution will provide greater video details. but it will require higher Video Resolution : ○ 320 x 240 ○ 640 x 480 bandwidth then lower resolution.

#### 3.1.2.2 Quality: Best / Medium / Worst:

Select netCAM output Video quality. Ouality : • Best • Medium • Worst Better quality video will have higher clarity image. Likewise it will require higher bandwidth and more time to process.

#### 3.1.2.3 Frame Rate: 15 / 20 / 30 (Frames/Sec):

Frame Rate : provide ○ 15 ○ 20 ○ 30 (Frames/Sec) Higher frame will rate smoother image.

#### 3.1.2.4 Auto Exposure: Enable / Disable:

Enabling netCAM Auto Exposure function will Auto Exposure : 📀 Enable 🗢 Disable automatically adjust exposure levels.

#### 3.1.2.5 Auto White Balance: Enable / Disable:

Enabling Auto White Balance will allow the Auto White Balance : 📀 Enable 🗢 Disable camera to adjust ideal white balance.

#### 3.1.2.6 Hue: Red / Green / Blue / Number:

Manually adjust netCAM's Hue condition; you can modify the Red / Green and Blue color's hue or the total hue.

#### 3.1.2.7 Brightness:

Hue Number -

Blue -

Green - 50

Hue: Red

50

50

-50

Adjust netCAM's brightness of the camera manually.

40

40

	С	0	n	tr	a	8	t	ł	
--	---	---	---	----	---	---	---	---	--

#### 3.1.2.8 Contrast:

Adjust netCAM's contrast manually.

Saturation :

3.1.2.9 Saturation:

Adjust netCAM's Saturation manually.

Brightness :

20



#### 3.1.2.10 Light Frequency:

Adjust the light frequency to suit your area of operation. 50 Hz and 60 Hz variants are

available to accommodate the different light frequencies found in USA (60 Hz) and Europe (50 Hz) for optimal image quality.

Light Frequency :

After the changes are complete, please click "*Apply*" button to store the settings. Otherwise click the "Undo" button undo the changes.

#### 3.2 Network/Admin

#### 3.2.1 Basic Setup

You can select PPPoE, DHCP or Fixed IP according to the local network environment.

Basic Setup		
Hott Name: Domain Name: IP Address 0MAC Address 00000000000000000000000000000000000		
Apply Uulo		

#### 3.2.1.1 Host Name & Domain Name:

Some ISPs required these names as identifications to their network. You may have to check with your ISP to see if your

Host Name: Domain Name:

Broadband Internet Service has been configured with a host and domain name. In most cases, leaving fields blank should also work.

#### 3.2.1.2 MAC Address:

Show the current netCAM MAC address. IP Address

#### 3.2.1.3 Acquire PPPoE IP address:

The IP address assigned by PPPoE may be outside your local C Get an IP address by PPPoE area network. If the Get an IP Address by PPPoE/Modem is selected, you must set up the **PPPoE** configuration. It includes assigning the user name and password. You can set up to allocate "Dynamic DNS".

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○ 50Hz ⓒ 60Hz

(MAC Address: 00-00-11-11-22-34)

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#### 3.2.1.4 Get an IP address by DHCP:

If your camera is set as Get an IP address by DHCP. Then C Get an IP address by DHCP you do not need to assign an IP address. DHCP will automatically release the IP address for netCAM. To avoid DHCP IP changed, you need to set the "Dynamic DNS". Otherwise changes of IP address

#### 3.2.1.5 Specify an IP

Please specify your r yourself. Please do n address as other Netw

#### 3.2.1.6 Subnet Mask

Set only when nece default. Default Sub 255.255.255.0

#### 3.2.1.7 Default Gatew

Your ISP will provide Address. If the came Address by PPPoE, th

#### 3.2.1.8 Domain Name Servers:

Your ISP will provide you with at least one DNS IP Address. Multiple DNS IP setting is also

common. The first available DNS entry is used in most cases. If the device is set to Get an IP Address by PPPoE/Modem, these values will be assigned by your ISP.

After changes are done, click the "*Apply*" button to store the new settings. Otherwise click the "Undo" button return to previous settings.

will cause camera accessing error.
address: hetCAM IP address by ot assign the same IP ork devices.
Address: ssary, else leave it as Submet Mask Address:: 255 255 255 0 net Mask Address is
ay IP Address: you with the Gateway IP Default Gateway IP Address: 192 168 1 1 ra is set to Get an IP ese values will be assigned by your ISP.

Domain Name Server 1:

168 95

1





9/21/2004 10:39

9/21/2004 10:41

#### **3.2.2 Network Status**

Network stat address de modify ther these setting basic settin to load the

Network status will snow the current IP	
address details. You will not be able to	EXTERNAL CONTRACTOR OF CONTRACTO
modify them here. If you wish to modify	
these settings, please set them up at	Use ethernet/wueless: ethernet
basic setting. Click the "Reload" button	Network Mark 255 255 0
to load the latest details.	Default Geleway
IP Address	Domain Name Server 2 0 0 0 0
Network Mask 255 255 25	5 0 Domin Name Server 3 0 0 0 0
Default Geteway	
Domain Name Server 1 168 95 1	1
Domain Name Server 2 0 0	
Domain Name Server 3 0 0	0 System/Client Logs
3.2.3 System/Client Logs	Main Info IP Address MAC Address Time

System/Client Logs will display detail of the [Client Login Time], [IP address] and [MAC Address] information.

ministratio	on Setup	
Froduct Name:	IPCam	
Venion:	Build Aug 31 2004 10:40:37 solven spine	
Administrator Par	ewced	
Parend Clauge		
Permat Cafes		
MAC Address:		
Reset Device:	TTes # No	
Factory Defaults:	C Yes # No	
Multiport Default	t C Yes € No	
111	EAT .	

#### 3.2.4 Device Admin (Multiport Setup)

192.168.1.50

00:0A:E6:BB:7C:9F

System Boot

New client :

Network Status

Information regarding netCAM will be displayed. You can change the administrator password, MAC Address or Multiport defaults.

#### 3.2.4.1 Product Name:

This is registry the products name in netCAM's firmware.

#### 3.2.4.2 Version:

This is the current firmware version

in netCAM (with date and time).

You can also click "software update" to upload the latest firmware onto your netCAM.

Version:

Note: When updating firmware, it is important **NOT TO UNPLUG** the camera's power source or Ethernet connection. Interrupting firmware uploading may cause permanent damages.

#### 3.2.4.3 Administrator Password:

Please type the new password and again at the confirming section to reconfirm in order to change the Administrator's login password,. Click "Apply" button for update.

Administrator Password				
Password Change:	••••			
Password Confirm:	••••			

Note: Please remember your Administrator password. If the password is forgotten, please restore netCAM's Factory setting by referring to Appendix A - Restore Factory Default Settings)

#### 3.2.4.4 MAC Address:

00 00 11 11 22 34 Camera Mac Address is given upon factory and MAC Address: cannot be modified.

#### Reset Device:

3.2.4.5 Reset Device:

🗢 Yes 💿 No Reset your netCAM and restart without losing any stored information. Please select "Yes", and then click the "Apply" button.

#### 3.2.4.6 Factory Defaults:

Reset your netCAM and restore factory default settings. Factory Defaults: O Yes 💿 No All storage information will be cleared. Please select

"Yes", and then click the "Apply" button. This will function as hardware's factory reset.

#### 3.2.4.7 Multiport Defaults:

Check "Yes" to allow opening additional ports for accessing the camera. After enabling

Multiport Defaults: O Yes 📀 No port number: 0

new access port, enter eg. http://<CAMERA IP Address>: 8080 on web browser address column to access the camera.

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Product Name: IPCam.

Build Aug 31 2004 10:17:51 software update



#### 3.2.5 PPPoE Setup

PPPoE Setup			
PPPoE:	오 Enable 💿 Disable		
User Name:			
Password:			
PPPoE Managemen	nt:		
Connection State:			
Session ID:	0		
Connecting Time:	0 sec		
PPPoE Ip:			
			Apply Und

#### 3.2.5.1 PPPoE:

Check *Enable* to enable PPPoE function. Click **PPPoE: O** Enable **O** Disable **''** Disable'' to disable this function.

#### 3.2.5.2 User Name / Password:

Input PPPoE User Name and Password for PPPoE account provided by your ISP. Click "*Apply*" button to update. This entry is required by certain ISPs when using PPPoE connection.

User Name:	
Password:	

PPPoE Management	t:
Connection State:	
Session ID:	0
Connecting Time:	0 sec
PPPoE Ip:	

#### 3.2.5.3. PPPoE Management:

Display current PPPoE status.



#### 3.2.6 Dynamic DNS

Dynamic DNS (http://www.dyndns.org)	
Dynamic DNS: O Enable O Disable (Not Update)	
Domain Name:	
User Name:	
Password:	
	Apply Undo

#### 3.2.6.1 Enable / Disable Dynamic DNS:

Select *"Enable"* or *"Disable"* to start or stop the Dynamic DNS mechanism. ISP will

dynamically allocate an IP address for the camera/router. Do the setup, if you connect to the Internet by ADSL/Cable modem, and you wish to map the dynamic IP address to a Domain Name.

#### 3.2.6.2 Domain Name:

Enter a domain name in this field to map the IP	Domain Name:
address of your broadband router.	
3.2.6.3 User Name:	
Enter the username of your Dynamic DNS Service	User Name:
· · · · · · · · · · · · · · · · · · ·	
3.2.6.4 Password:	
Enter the password in the "Password" field to access the	Password:

Enter the password in the "Password" field to acce dynamic DNS.



#### 3.2.7 FTP Service

FTP Servic	e			
Enable: 0	• Enable	Oisable		
Server URL:				
User:				
Password:				
Remote Path:		]		
			Ap	ply Undo

#### 3.2.7.1 FTP service:

netCAM is able to upload images/video captures				
	Enable:	🗢 Enable	💿 Disable	
at the rate of 1 picture per second to FIP site				
specified by the user. Select "Enable" or "Disable" use the FTP service.				

#### 3.2.7.2 Server URL:

Define Upload FTP URL address. (Without the path of the	Server URL:	
FTP server)		,

User:	
Password:	

#### 3.2.7.3 User & Password:

Input the the	user	name	and	the	password	required	to
login the FTP	serve	er.					

#### 3.2.7.4 Remote Path:

Please enter the remote FTP path which the images will be stored.



#### 3.2.8 User Management

You can create a accounts to restrict anonymous users from accessing the camera. There are three security levels; Admin, User and Guest. You can create up to maximum of 16 accounts for different level users.

#### 3.2.8.1 Security Levels:

#### 1. Admin: Highest

Admin will be able to enter all setups and change the settings.

#### 2. User: Medium

User can change settings such as

Camera View, Image Control, Ftp Service, Email Service, and NTP service.

#### 3. Guest: Lowest

Guest can only do viewings.

	(1999) MALES - 199	
Surrent User	Level	Assign User User Name: Password: Password: Confirm pewd: Level: Court Assign Court Delete User Delete User
Eto		

Admin accounts cannot be changed to Guest or User level. The maximum account is 16 (excluding root).



#### **Appendix A - Restore Factory Default Settings**

Press and hold the **Reset** button for 5 seconds to reset the camera to its factory defaults. The Green indictor LED light will lid when it is finish reset procedure.



SW\_2: Software reset and reset to **Default IP (192.168.1.99)** Parameter (Please Push 5 /Sec)

SW\_1: H/W Power Reset

Note: You will need to reconfigure your camera settings after resetting the camera. The netCAM will recover to the factory default username (root) and password (admin). The network settings on your camera will also be restored to the default value. Therefore you may need to reconfigure the camera using the netCAM IP Lite.



#### **Appendix B - Factory Default Value**

#### Image Control Setup

Item	Default Value
Video Resolution	640 x 480
Quality	Best
Frame Rate	15
Auto Exposure	Enable
Auto White Balance	Enable
Hue: Red	50
Hue: Green	50
Hue: Blue	50
Hue:General Number	50
Brightness	30
Contrast	40
Saturation	40
Light Frequency	60 Hz

#### **Basic Setup**

Item	Default Value	
Host Name	*Blank	
Domain Name	*Blank	
IP Address	Specify an IP address	
	192.168.1.99	
Subnet Mask Address	255.255.255.0	
Default Gateway IP	192.168.1.254	
address		
Domain Name Server 1	168.95.1.1	
Domain Name Server 2	*Blank	
Domain Name Server 3	*Blank	

Note: Blank means there is no Value.

Mac address will be assigned by the 3JTech and cannot be changed



#### **Device Admin**

Item	Default Value
Administrator	admin
Password	
MAC Address	*Default by factory
Reset Device	No
Factory Defaults	No
Multiport Defaults	No
Multiport Defaults Port	0
Number	

#### **PPPoE Setup**

Item	Default Value
PPPoE	Disable
User Name	*Blank
Password	*Blank

#### Dynamic DNS Setup

Item	Default Value
Dynamic DNS	Disable
Domain Name	*Blank
User Name	*Blank
Password	*Blank

#### **FTP Service setup**

Item	Default Value
FTP Service	Disable
Server URL	*Blank
User Name	*Blank
Password	*Blank
Remote Path	*Blank

#### **User Account Management**

Item	Default Value
User Name	*Blank
Password	*Blank
Confirm Password	*Blank
Level	Guest



#### Appendix C - How to Setup ActiveX functions for your PC

All the *ActiveX* functions must be enabled in the computer. To ensure *ActiveX* is enabled, please follow the steps as below:

- 1) Open Internet Explorer,
- 2) Select *Tools* on top of the IE menu bar,
- 3) Select Internet Options,
- 4) Go to **Security**,
- 5) Select Custom Levels,
- 6) Activate all the *ActiveX* controls and click *OK*,
- 7) Go to our *netCAM* site.

(3JTech netCAM website IP address : <u>http://61.56.193.43</u>

Dynamic DNS : <u>http://3jtech.dyndns.org</u>.)

#### Please wait few seconds for the Applet to download.

Once activated the ActiveX controls and downloaded the applet program, you are ready to browse the camera sites! And NOW, you can connect to your netCAM for settings. (netCAM website the default IP address <u>http://192.168.1.99/</u>.)

Internet	Explorer - 安全性警告		
是否要	安裝這個軟體?		
	名稱: <u>AxisCamControl</u> 發行者: <u>Axis Communica</u>	tions	
♥ 更:	多選項(())	安裝①	不要安裝①
١	雖然來自網際網路的檔案可能 害您的電腦。請只安裝來自您	是有用的,但是這個相 所信任發行者的軟體。	當案類型有可能會傷 。 <u>有什麼樣的風險?</u>

There are two methods to view camera sites via the Internet Explorer. You can either input the IP address with port number or enter the Domain Name to connect camera site.



#### Appendix D - How to setup IP address of your PC

Please follow the following illustration procedure to setup IP address on your PC.

- 1. Open "Control Panel", execute "Network and Dial-up connection".
- 2. Click "Local Area Connection", right click and select Properties.
- 3. Choose "Internet Protocol ( TCP/IP ) ", click Properties.

Internet Protocol (TCP/IP) Propert	ies <b>?</b> X
General	,
You can get IP settings assigned auto this capability. Otherwise, you need to the appropriate IP settings.	omatically if your network supports a ask your network administrator for
C Obtain an IP address automatic	ally
☐ Use the following IP address: —	
IP address:	192.168.1.11
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	<u> </u>
C Obtain DNS server address aut	omatically
┌─	ddresses:
Preferred DNS server:	
Alternate DNS server:	
	Advanced
	OK Cancel

ocal Area Connection Properties
General
Connect using:
SiS 900-Based PCI Fast Ethernet Adapter
Configure
Components checked are used by this connection:
File and Printer Sharing for Microsoft Networks      Internet Protocol (TCP/IP)
Install Uninstall Properties
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Show icon in taskbar when connected
OK Cancel

- 4. After configuring **IP Address** and **Subnet mask**, press **"OK"**.
- 5. Press "OK" in "Internet Protocol (TCP/IP)".

Thank you for choosing 3JTech products; we hope you enjoy this netCAM and keep your eyes opened for additional functions to our products! If you have any questions, please email us at tech@3jtech.com or tech@3jtech.com.tw.