



FCS-3101

Fixed Dome Network Camera, 2-Megapixel, 802.3af PoE, Day & Night, IR LEDs

User Manual

Version 1.0

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IP Address	DHCP
Username	root
Password	

Overview

FCS-3101 is a 2-Megapixel Day/Night PoE Mini Dome Network Camera.

Law in your country may prohibit the use of surveillance devices. The Network Camera is not only a high-performance web-ready camera but also can be part of a flexible surveillance system. It is the user's responsibility to ensure that the operation of such devices is legal before installing this unit for its intended use.

It is important to first verify that all contents received are complete according to the list in the "Package Contents" chapter. Take notice of the warnings in "Quick installation guide" before the Network Camera is installed, then carefully read and follow the instructions in the "Installation" chapter to avoid damages due to faulty assembly and installation. This also ensures the product is used properly as intended.

The Network Camera is accessible via the LAN or Internet connection. Connect your Network Camera directly to a computer network or DSL modem, and with a standard Web browser you get instant, on demand video streams. Within minutes you can set up the Network Camera to capture a video sequence to a PC. Live video image can be uploaded to a website for the world to see or made available only to select users on the network.

The Network Camera is a network device and its use should be straightforward for those who have basic network knowledge.

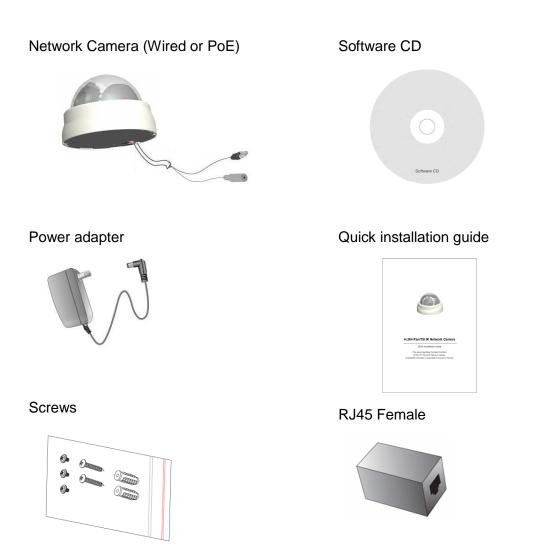
The Network Camera is designed for various applications including video sharing, general security/surveillance, etc. The "How to Use" chapter suggests ways to best utilize the Network Camera and ensure proper operations.

Fixed Dome Net	work Camera, 2-Megapixel, 802.3af PoE, Day & Night, IR LEDs
Network Environment	
LAN	10/100M Ethernet
Monitoring System Re	ecommended for Internet Explorer
System Hardware	 Basic requirements CPU: Intel® Celeron® Dual-Core @2.70GHz or above Memory Size: 2 GB or above Recommended VGA card resolution: 1024 x 768 or above
System Requirement	for Viewer & Recorder Application
Support OS	XP, Windows 7
System Hardware	 1-4 cameras surveillance application CPU: Intel® Celeron® Dual-Core @ 2.70GHz or above Memory Size: 2 GB or above VGA card resolution: 1024 x 768 or above

Minimum System Requirement

Package Contents

If any of the above items are missing, please contact your dealer immediately.



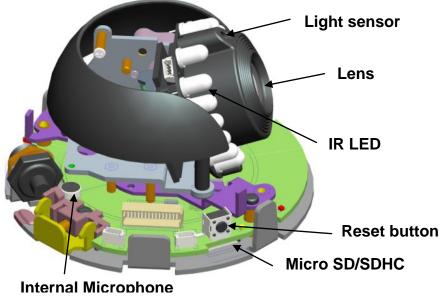
Note: Using a power supply with a different voltage than the one included with the Network Camera will cause damage and void the warranty for this product.

Connections

Hardware description

• Outer View

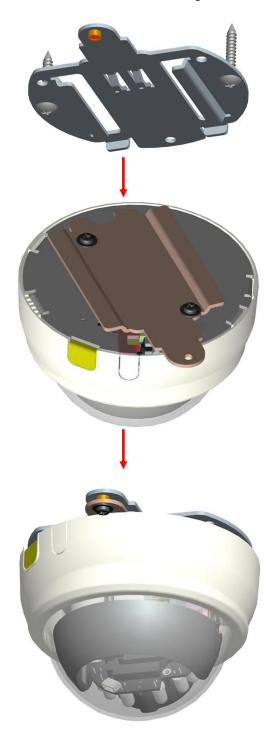




Hardware Installation

1. Attach the Network Camera with the included stand

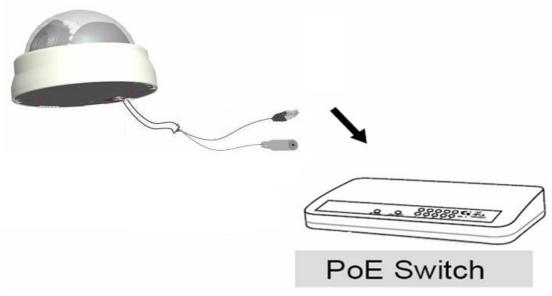
2. Place the Camera fix it onto ceiling or wall Use screws to fix the Network Camera onto the ceiling or wall.



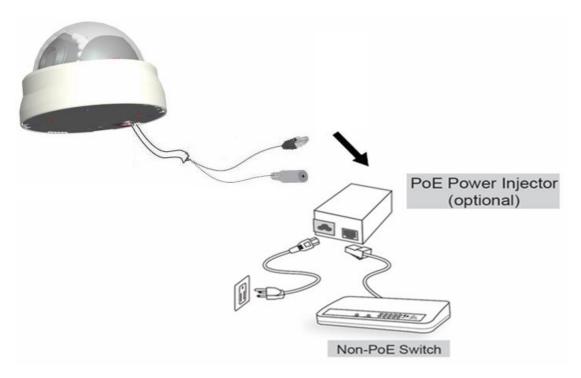
3. Power over Ethernet (PoE)

• Using a PoE-enabled switch

The Network Camera is PoE-compliant, allowing transmission of power and data via a single Ethernet cable. Follow the below illustration to connect the Network Camera to a PoE-enabled switch via Ethernet cable.



Using a non-PoE switch Use a PoE power injector (optional) to connect between the Network Camera and a non-PoE switch

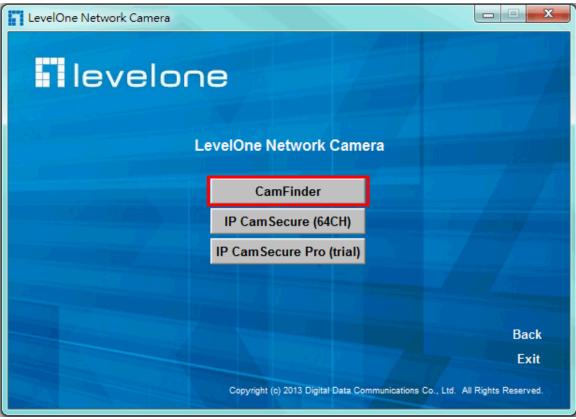


Connect to the Network Camera Install the IP Finder program

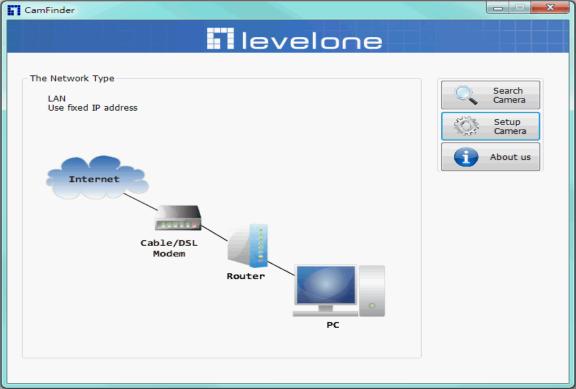
When you installed your Network camera on your LAN environment, you may install "IP Finder" to discover Network camera's IP address. The Administrator must place the product software CD into the CD-ROM drive of the PC running in Microsoft Windows. An auto-run program will pop up (If the program is not on auto-run, go to the root directory of the software CD and click on "autorun.exe").



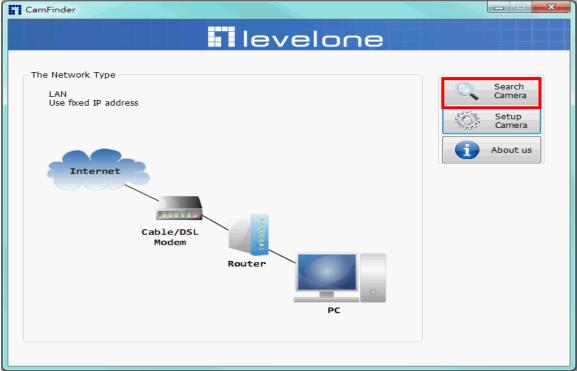
Click on "Software Utility" item, after the window contents changed, click on "Install IP Finder" to run "IP Finder" program.



"IP Finder" is used to search the IP address of Network Cameras or Video servers on a LAN. After searching, Video Servers or Network Cameras will be located by the IP Finder.



Search Camera

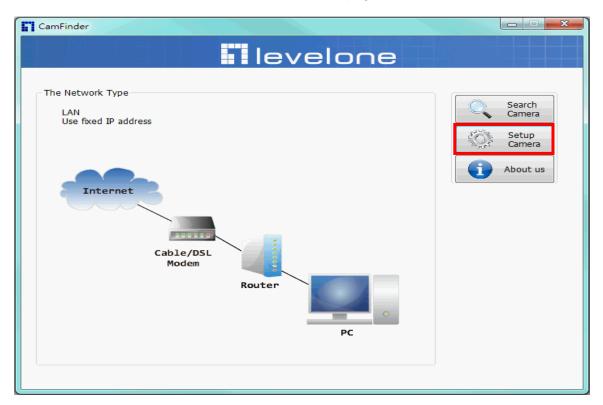


Click search Camera button, The program will search for all family network devices on the same LAN. After searching, the main installer window will pop up. Click on the MAC and model name which matches the product label on your device to connect to the Network Camera via Internet Explorer.

CamFinder							x
		le	velone				
					Ô	Stop	1
Camera List						finding	J
IP	MAC	PORT	DESC / INTERFACE	SPORT			
192.168.0.99	00:11:6B:00:81:E1	80	FCS-3101/ethernet	54			
Back							
Back							

Setup Camera

Auto Install Wizard will be started and that it can auto guide through the installation process. Press the "**Next**" button execute next process. For more information, please refer to the Network section on page 33.



CamFinder	
	levelone
	add a new camera to the current environments or I want to add a old the current environments.
Yes	
	LAN connection
	Wireless connection
	PPPoE connection
🔘 No	
	I already know how to connect the camera, skip the picture using manual settings.
Back	Next

CamFinder		
	levelone	
cab	Die/DSL hodem	Follow the picture to connect the Camera, and wait for the network light flashing, if the network has been flashing lights, please click Next to continue to set the Camera.
Back		Next

			velone		
Camera List					Start Find
IP	MAC	PORT	DESC / INTERFACE	SPORT	
Please use the sea Next to continue o	rch button in the upper configuring the camera.	right and s	elect the camera, press		

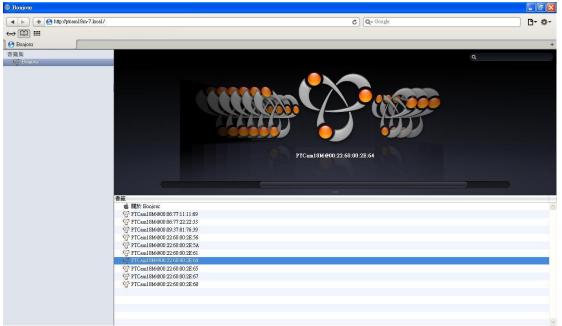
	levelone	
Smart setup	Wizard will help you to setup LAN Vireless	
🔘 Maunal setup	Set up their own networks • wireless and other function by youselft.	ons
		Next
		Maunal setup Set up their own networks vireless and other function

CamFinder			
		levelone	
Network			
) Get IP addres	s automatical	
	Ose fixed IP a	ddress	
	IP address	192 . 168 . 0 . 253	Test this IP
	Subnet mask	255 . 255 . 255 . 0	You can use this button to test this IP
	Default router	0.0.0.0	address is available or not.
	Primary DNS	255 . 255 . 255 . 255	
Back			Next

CamFinder			
	le	velone	
VPnP Port			
	🗷 Enable UPnP		
	HTTP Port	80	
	Stream Port	54	
	RTSP	554	
Back			Next
CamFinder			
CamFinder	le	velone	
System information			
System information Host name :FCS-4101		Wireless information	
System information Host name :FCS-4101		Wireless information	
System information Host name :FCS-4101 Description :Day/Night II	P CAM with P/T	Wireless information Not support wireless. UPnP information	
System information Host name :FCS-4101 Description :Day/Night II Network information Use fixed IP address:0.0 Subnet mask:0.0.0.0 Default router:0.0.0.0	P CAM with P/T	Wireless information Not support wireless. UPnP information Enable UPnP HTTP Port:80 Stream Port54	
System information Host name :FCS-4101 Description :Day/Night II Network information Use fixed IP address:0.0 Subnet mask:0.0.0.0	P CAM with P/T	Wireless information Not support wireless. UPnP information Enable UPnP HTTP Port:80 Stream Port54	
System information Host name :FCS-4101 Description :Day/Night II Network information Use fixed IP address:0.0 Subnet mask:0.0.0.0 Default router:0.0.0.0	P CAM with P/T	Wireless information Not support wireless. UPnP information Enable UPnP HTTP Port:80 Stream Port54	
System information Host name :FCS-4101 Description :Day/Night II Network information Use fixed IP address:0.0 Subnet mask:0.0.0.0 Default router:0.0.0.0	P CAM with P/T	Wireless information Not support wireless. UPnP information Enable UPnP HTTP Port:80 Stream Port54	
System information Host name :FCS-4101 Description :Day/Night II Network information Use fixed IP address:0.0 Subnet mask:0.0.0.0 Default router:0.0.0.0	P CAM with P/T	Wireless information Not support wireless. UPnP information Enable UPnP HTTP Port:80 Stream Port54	Save

Bonjour program

Safari browser supports Bonjour search program the will search for all family network devices on the same LAN.



C2.mylevel1com(Free DDNS service)

1. When you want to connect the network camera over Internet, you can use the service "**C2.mylevel1.com**". The "ip-discovery.com" is a free DDNS server for this camera. Make sure that the router must start UPnP and DHCP server functions. You can get the domain name which you wish very easily after registration. In Network page—DDNS settings of this camera, you just input the host name you want and your e-mail address, and click "Register", then you can have the hostname for this camera not longer than 20 seconds if the DDNS registration result is OK. Then you can connect to this ip camera by *http://XXX.c2.mylevel1.com: @ @ @ @

*XXX: the host name you type

*@@@@: The HTTP port (get it automatically by c2.mylevel1 server)

DDNS setting						
Please input the C2.mylevel1.com DDNS parameters						
Host name	.C2.mylevel1.com					
E-mail						
	nbers is needed to set up at your router's mapping table ne port values if needed. Make sure the values must be					
	p at your router's mapping table.					
HTTP port	80					
HTTPS port	443					
RTSP port	554					
Video RTP port	54					
Video RTCP port	55					
Audio RTP port	56					
Audio RTCP port	57					
Register						
	Cancel Prev Next Finish					

User password: Default the password is last six number of the MAC. To change "root" password at "Security configuration" can change the user password, This "User password" is entered in the c2.mylevel1.com Password.

Note: You must set the ports between your router and camera manually if the registration is failed.

Initial Access to the Network Camera

(1) For the initial access to the Network Camera in Windows, the web browser may prompt for permission to install a new plug-in for the Network Camera. This plug-in has been registered for certificate and is used to display the video in the browser. Users may click on

1. Click "Install" and "Run" ActiveX controls

<complex-block><complex-block><complex-block>

2. The video will be displayed.

Primary user's capability

Main Screen with Camera View

The main page has three parts:

1. Configuration functions: The camera can be configured using these user interfaces.

2. Connection control buttons: These buttons provide the remote and local switching stream.

3. Camera View: What the camera sees.

Click the configuration in the bottom of left column to link to the configuration page.



Configuration functions:

"**ePTZ Settings**" Electronic pan/tilt/zoom capabilities that enable users to move to a target region instantly for close-up shots by simply clicking on the video feeds on their screen rather than moving the camera physically.

"Client Settings" Clicking on this button links you to the client setting pages, please check the following session for more details.

"Configuration" Please notes that only the administrator can access it.

" Language" Click this button to choose a language for the user interface.

Language options are available in: English, traditional Chinese, Simplified Chinese, Japanese, Spanish, Portuguese, French, German, Italiano.

Camera view:

On the top of image shows the connecting type of the Network Camera and the current date/time.



View capabilities:

1. Click this button to capture and save still images. The captured images will be displayed in pop-up window. Right-click the image and choose Save Picture As to save it in JPEG format.

2. The button selection lets you open a digital zoom, and to control the window to enlarge a specified area in the camera view.

3. Click this button to switch to full screen mode. Press the "Esc" key to switch back to normal mode.

4. 🛄 🔎

5.

Click on this button freeze the video, and playing when you click again.

Lick on this button stop video output.

6. Use this function ; you can record video in your PC by browser directly. The files format will be in MP4. Note: Due to the UAC (User Access Control) function in Windows Vista or Windows 7, the IE browser would need to be run under the "Administrator" privilege.

7. 😕

Click on this button adjust the audio volume & Latency.

8. Click on this button switch Mute On/Off.



Connection control buttons:

 "Connection" User can choose Remote or Local mode for best connection quality.
 Proposal: Internet environment, switch Remote mode.
 "Video Stream" User can choose stream1 or stream2.

Client Setting

	1	levelone		Client setting 1.0.1.3
→ Home	- Internet setting			
	© UDP			
	© TCP			
	HTTP			
	_ Intranet setting			
	© UDP			
	© TCP			
	@ HTTP			
	Recording option	15		
	Folder:	C:\Record	Browse	
	File name prefix:	Video		
	Add date and time	e suffix to file name		
				save

1. "Video output setting" Setting video output format.

"Stream" Select use multiple stream video.

"Picture" Select use serial video picture.

- 2. "Intranet Protocol Options" Setting camera in intranet mode of protocol. "UDP" Select use UDP protocol connect camera.
- "TCP" Select use TCP protocol connect camera.

"HTTP" Select use HTTP protocol connect camera.

3. "Internet Protocol Options" Setting camera in internet mode of protocol. "UDP" Select use UDP protocol connect camera.

"**TCP**" Select use TCP protocol connect camera.

"HTTP" Select use HTTP protocol connect camera.

4. "Recording options" Users can record live video as they are watching by clicking start MP4 Recording on the main page. Here, you can specify the storage destination and file name

"Folder" Specify the storage destination for the recorded video files.

"File name prefix" Enter the text that will be appended to the front of the video file name.

"Add date and time suffix to file name" Select this option to append the date

and time to the end of the file name.

NOTE: Protocol Options which allows choices on connection protocol between client and server. There are three protocols choices to optimize your usage – UDP,TCP,HTTP. The UDP protocol allows for more real-time audio and video streams. However, some packets may be lost due to network burst traffic and images may be obscured. The HTTP protocol allows for less packet loss and produces a more accurate video display. The downside with this protocol is that the real-time effect is worse than that with the UDP protocol.

The TCP guarantees the complete delivery of streaming data and thus provides better video quality. However, the real-time effect is not as good as that of the UDP protocol. If no special need is required, UDP protocol is recommended. Generally speaking, the client choice will be in the order of UDP \rightarrow HTTP. After the Network Camera is connected successfully, "Protocol Option" will indicate the selected protocol. The selected protocol will be recorded in the user's PC and will be used for the next connection. If the network environment is changed, or the user wants to let the web browser to detect again, manually select the UDP and TCP protocol, save, and return HOME to re-connect.

Definitions in Configuration

Please note that only the Administrator can access the system configuration.

System parameters

	levelone	System 1.0.1.3
		Firmware version
 Home 	General setting	
▹ System	Host name FCS-3101	
User	Led indicator Turn on	
management	i um on	Setup
 Network 		
 Access list 	Time setting Time zone (GMT+08:00) Beijing Chongging, Hong Hong, Kuala Lumpur, Singapore, Taipei Daylight saving time Disable Current Time	
• Audio and video		I Lumpur, Singapore, Taipei
 Video record 		
→ Stream	2013/09/03 18:26:04	Setup
 Application 		
⋆ Storage		
▹ System log		
Status and parameters		
 Maintenance 		

1. "General Setting"

(1) "Host name"

The text displays the title on the top of the main page. (2) "LED indicator" Select turn on or turn off the led indicator.

2. "Time Setting"

(1) "Time zone"

Choose a time zone from the down arrow.

(2) "Daylight saving"

For summertime; It will be one hour ahead.

(3) "Current Time"

Network camera set the current time.

(A) "Keep current date and time"

Click on this to keep the current date and time of the Network Camera. An internal real-time clock maintains the date and time even when the power of the system is turned off.

(B) "Sync with computer time"

Synchronize the date and time in the Network Camera according to the local computer.

(C) "Manual"

Adjust the date and time by the Administrator.

(D) "Adjust by NTP server"

Synchronize the time according NTP server over the Internet whenever the Network Camera is switched on. It fails if the assigned time-server cannot be found.

(a) "NTP server" Assign the IP address or domain name of the time-server. Leaving the text box blank connects the Network Camera to the default time-servers.

(b) "Update interval" Select 0 ~ 23 hours update with the time on the NTP server.

Remember to click on "*Finish*" to immediately validate the changes. Otherwise, the correct time will not be synchronized.

Security

	levelone	User management 1.0.1.3
→ Home	Security setting Users' privilege	
 > System User management 	The operators can use : (1) Connection selection The viewers can use : (1) Connection selection Users There are 0 administrator	
Network	There are 0 operator There are 0 viewer	Setup
 Access list Audio and video 		
 Video record Stream 		
▸ Camera control		
 Application Storage 		
System log		
Status and parameters		
 Maintenance 		

Security setting

The administrator account name is "root", which is permanent and can not be deleted. If you want to add more accounts in the Manage User column, please set a password for the "root" account first.

1. "Change root password" Change the Administrator's password by typing in the new password identically in both text boxes. The typed entries will be displayed as asterisks for security purposes. After pressing *"finish"*, the web browser will ask the Administrator for the new password to access.

2. "Manage privilege" You can modify the manage privilege of operators or viewers. Check or uncheck the item, then click **finish** to enable the settings.

3. "Manage user"

- (1) "Add a new user" Administrators can add up to 20 user accounts.
 - (A) Input the new user's name and password.
 - (B) Select the privilege level for the new user account. Click **Finish** to enable the setting.

(2) "Delete a user" Select an existing user name. Click Finish to enable the setting.

(3) "Update a existing user" Select an existing user name. Administrators can modify user's password and privilege. Click **Finish** to enable the setting.

Access rights are sorted by user privilege (Administrator, Operator, and Viewer). Only administrators can access the Configuration page. Operators cannot access the Configuration page but can use the URL Commands to get and set the value of parameters. Viewers access only the main page for live viewing.

Network

Any changes made on this page will restart the system in order to validate the changes. Make sure every field is entered correctly before clicking on *"finish"*

	Network 1.0.1.3
• Home	─ Network setting ────────────────────────────────────
▶ System	The network type is
	LAN, using dhcp to obtain IP address automatically,
User	using UPnP presentation ,
management	using UPnP port forwarding
	The ports set as following:
 Network 	HTTP port is 80,
	HTTPS port is 443,
 Access list 	RTSP port is 554,
	RTP port for video stream is 54,
 Audio and video 	RTCP port for video stream is 55,
 Video record 	RTP port for audio stream is 56,
	RTCP port for audio stream is 57
▶ Stream	
	access name for stream 1 with audio/video is "live1",
 Camera control 	access name for stream 2 with audio/video is "live2"
	Setup
 Application 	
	DDNS setting
 Storage 	The DDNS set as following:
Ourstans la n	using the service of C2.mylevel1.com
 System log 	Has not been registered.
Status and	Setup
>	Jenh
parameters	
Maintenance	
Wantenance	

Network Setting

"LAN" & "PPPoE"

The default type is LAN. Select PPPoE if using ADSL

1. LAN

The default status is **Get IP address automatically**. This could be tedious to perform software installation whenever the Network Camera starts. Therefore, once the network is set, especially for the IP address should be entered correctly. Select **Use fixed IP address** then the Network Camera will skip installation. The Network Camera will automatically restart and operate normally after a power outage. You can run IP installer to check the IP address assigned to the Network Camera if the IP address is forgotten, or you can use the UPnP function provided by the Network Camera **(MS Windows XP**)

provides UPnP function at My Network Place).

(1) "Get IP address automatically"

- (2) "Use fixed IP address"
 - "IP address": This is necessary for network identification.
 - **"Subnet mask"**: This is used to determine if the destination is in the same subnet. The default value is "255.255.255.0".

- **"Default router"**: This is a gateway used to forward frames to destinations in a different subnet. Invalid router setting will fail the transmission to destinations in different subnet.

- "**Primary DNS**": The primary domain name server that translates hostnames into IP addresses.

- "Secondary DNS": Secondary domain name server backups the Primary DNS.

"Enable UPnP presentation & port forwarding": Enable UPnP ability.
"Http port" This can be typed besides the default Port 80. Once the port is changed, the users must make sure the change for the connection is successful. For instance, when the Administrator changes the HTTP port of the Network Camera which IP address is 192.168.0.20 from 80 or 1025 to 65535, the users must type in the web browser "http://192.168.0.20:8080" instead of "http://192.168.0.20".

- "RTSP Port" RTSP port can be typed besides the default Port 554

- "RTSP Streaming access names" The RTSP streaming currently supports video only, audio only, and audio/video. To use the audio/video stream, type the URL as"rtsp://61.30.125.43/liveN.sdp".

2. PPPoE

If using the PPPoE interface, you should fill the following settings from ISP.

- (1) "User name": The login name of PPPoE account
- (2) "Password": The password of PPPoE account
- (3) "Confirm password": Input password again for confirmation

DDNS Setting

1. "Enable DDNS" This option turns on the DDNS function.

2. "ip-discovery" In the Register column, fill in the Host name (xxxx.ip-discovery), Email, Key, and Confirm Key, then click Register. After a host name has been successfully created, a success message will be displayed in the DDNS Registration Result column and messaging E-mail.

3. "3rd party DDNS" This is enable or disable 3rd party DDNS.

4. "Provider" The provider list contains hosts that provide DDNS services. Please connect to the service provider's website to make sure the service charges.

5. "Host Name" If the User wants to use DDNS service, this field must be filled. Please input the hostname that is registered in the DDNS server.

6. "User name" The Username or E-mail field is necessary for logging in the DDNS

server or notify the User of the new IP address.

Note: when this field is input as "User name", the following field must be input as "Password".

- 7. "Password" Please input the password or key to get the DDNS service.
- 8. "finish" Click on this button to save modify settings for the DDNS service.

Access list

	levelone	Access list 1.0.1.3
→ Home	- Access list setting	
→ System	Please select the access list type	
User management	 Enable Disable 	
 Network 		Cancel Prev Next Finish
 Access list 		
• Audio and video		
 Video record 		
→ Stream		
Camera control		
Application		
→ Storage		
▹ System log		
Status and parameters		
• Maintenance		

Access list setting

1. How to control access permission by verifying the client PC's IP address. General Settings.

General Settings

_	- Access list setting	
	Please select the filter type	
	Allow Allow	
	© Deny	
	Cancel Prev Next Finish	

Add a rule to configure an Allowed/Denied list: Click Add to add a rule to Allowed/Denied list.

There are three types of rules for user to set up:

"Single" This rule allows the user to add an IP address to the Allowed/Denied list. For example:

Г	Access list setting	
	Please select add/delete the access list	
	Only change filter type	
	Add address	
	Rule Single -	
	IP address 192.168.200.5	
	Delete address	
	Address list	
	Cancel Prev Next Finish	

"**Network**" This rule allows the user to assign a network address and corresponding subnet mask to the Allow/Deny List. The IP address is written in the CIDR format. For example

Access list setting
Please select add/delete the access list
Only change filter type
Add address
Rule Network -
Network address / Network mask 192.168.200.0 / 24
Delete address Address list
Cancel Prev Next Finish

"Range" This rule allows the user to assign a range of IP addresses to the Allow/Deny List. This rule is only applied to IPv4.

For example:

Г	Access list setting	
	Please select add/delete the access list	
	Only change filter type	
	Add address	
	Rule Range -	
	IP address - IP address 192.168.200.0 - 192.168.200.255	
	Delete address	
	Address list	
	Cancel Prev Next Finish	

Audio and Video setting

	levelone	Audio and video 1.0.1.3
► Home	General setting	
 System 	Current color mode is color	
User management	Current video is filp : on / mirror : on Current environment is	
Network	Indoor Current video frequence is	
 Access list 	60hz	Setup
 Audio and video 		
→ Video record	Current video contrast is	
	1 Current video brightness is	
Camera control	0 Current video saturation is	
Application	0 Current video sharpness is -2	
 Storage 	-2 Current video EV is	
 System log 	0 Current video gain is	
Status and parameters	1x ~ 8x	Setup
Maintenance	WDR setting	
	Current WDR Is	
	Disable	Setup
	- Infrared led setting	
	The infrared led mode is auto mode, value is 3 The low lux mode is	
	off	Setup
	- Audio setting	
	The microphone is Internal microphone, and microphone volume is 50	
		Setup

General Setting

- 1. "Color mode" Select use color or monochrome video display.
- 2. "Video orientation" The orientation of video
 - (1) "Flip" Vertically rotate the video.
 - (2) "Mirror" Horizontally rotates the video.
- 3. "Environment" The orientation of video
 - (1) "indoor" This option is usually selected when the Network Camera is placed in indoor environments.
 - (2) "outdoor" This option is usually selected when the Network Camera is placed in outdoor environments.
- 4. "Power freq." Select 50 Hz or 60Hz power line frequency.

The fluorescent light will flash according to the power line frequency that depends on local utility. Change the frequency setting to eliminate uncomfortable flash image when the light source is only fluorescent light.

Video Setting

1. "Contrast" Adjust the image contrast level, which ranges from -5 to +5. The default value is set to 0.

2. "Brightness" Adjust the image brightness level, which ranges from -5 to +5. The default value is set to 0.

3. "Saturation" Adjust the image saturation level, which ranges from -5 to +5. The default value is set to 0.

4. "Sharpness" Adjust the image sharpness level, which ranges from -5 to +5. The default value is set to 0.

5. "EV" Exposure value represent the expected target value of the luminance of the weighting result of AE windows in the image and its tolerance as offset.

6. "Gain" In the slide bar of Gain, there are also two sliders, which represent the limitations to control the maximum gain value and the minimum one, respectively. Normally, the minimum value is to 1x for better quality.

Wide Dynamic Range

Enable **Wide Dynamic Range** auto in different level to improve the exposure when both bright and dark areas simultaneously in the field of view of the camera. The default is off.

Infrared Led Setting

1. "Infrared LED Control" IR led for Day and Night (Option). User can turn on/off the built-in IR led. This function is very useful under low illumination environment.

- (1) "Auto" Select IR sensitivity from 0 to 4.
- (2) "Manual" Turn on/off the IR led manually.
 - "Turn on" Turn on led
 - "Turn off" Turn off led

2. "Low lux mode" The video quality will be improved when the camera is in low lux environment.

(1) "Disable dark mode" Disable low lux mode.

(2) "Enable dark mode" Enable low lux mode.

Audio Setting

- 1. "Mute" Audio mute.
- 2. "Microphone " Internal microphone.
- 3. "Mic Volume" Adjust microphone volume, which ranges from 1 to 64.

Video record

	Record 1.0.1.3
→ Home	Record setting
→ System	Video record is currently Enable
User management	The record sechdule is everyday time: from 00:00:00 to 23:59:59
→ Network	The record name is Source :stream1
→ Access list	The recording interval 1 minute file name prefix is "videorecord"
 Audio and video 	Enable cyclic recording The record storage is
 Video record 	saving to SD card Total space: 15752360 KB
→ Stream	Used space: 1248056 KB Free space: 14504304 KB
Camera control	Setup
 Application 	
→ Storage	
▹ System log	
Status and parameters	
 Maintenance 	

Schedule mode

- (1) "Every day" Enable/Disable every day application.
- (2) "Week day" Enable/Disable week day application.
- (3)"Selected day" Enable/Disable selected day application.

Schedule information

(1) Enter the "Start time" and "Stop time" for day mode.

Note that the time format is [hh:mm] and is expressed in 24-hour clock time. By default, the start and end time of day mode are set to 01:00:00 and 23:59:59.

(2)"Sun"/"Mon"/"Tue"/"Wed"/"Thu"/"Fri"/"Sat" Select the days of the week to perform the application.

(3) "Start day" and "Start time" as the start timing the time. "End day" and "End time" as the end timing the time

(4) "Enable cyclic recording" The cyclic recording function is enabled, during the transaction stage when a storage space is full and the incoming streaming data is about to overwrite the previously saved videos.

Record parameters

(1)Source: Select a stream for the recording source.

(2)Recording interval: Select the recording time interval.

(3)Prefix file name: You can setting the file name, and enable or disable to add the date and time on file name.

Response mode There are two choices of server types available: NAS, Micro SD Card. Select the item to display the detailed configuration options.

(1)"NAS"

-- "NAS server address" Enter IP address of the NAS server.

-- "NAS shared directory" Enter the NAS shared directory path.

-- "Workgroup" Enter the NAS workgroup parameter.

--"User account" Enter the login name of the NAS account.

--"User password" Enter the password of the NAS account.

Note: Video record with the Application must be set to the same shared directory path. If you would like do detail recording settings or multi-channel recording, please install bundled 64CH recording software in CD.

Stream

	levelone	Strean 1.0.1.3
Home	Audio codec setting	
System	Audio codec is AAC,	
User management	and bit rate is 32Kbps	Setup
Network	Video codec setting	
Access list	Stream 1 video codec is H.264,	
Audio and video	video size is 1920x1080, connection is from local,	
Video record	maximum frame rate is 15, video quality is "fixed quality" and value is 10	
Stream	Stream 2 video codec is H.264.	
Camera control	video size is 1280x1024, connection is from local,	
Application	maximum frame rate is 20, video quality is "fixed quality" and value is 10	
 Storage 		Setup
System log	Snapshot and time display setting	
Status and parameters	Snapshot resolution is 640x480 and add time and date on the picture/stream	
Maintenance		Setup

Audio codec setting

(1)"Audio codec type" There are two choices of audio codec types available: "AMR" 、 "AAC" and "G.711".

(2) "Bit rate"

-- "AMR" The bit rates are selectable at the following rates:

4750,5150,5900,6700,7400,7950,10200 and 12200.

-- "AAC" The bit rates are selectable at the following rates:

8Kbps,16Kbps, 24Kbps and 32Kbps.

-- "G.711" pcmu and pcma.

Video codec setting

(1) "Select Stream" The Network Camera supports "Stream 1" and "Stream 2".

(2) "Video codec" The Network Camera supports three kind of video

compression mode: "H.264" or "MPEG4" or "MJPEG". User can choose one of

these compression modes based on requirement or application

(3) "Video size" Click the down arrow to choose the quality of image

(4) "Connection type" User can select this button to choose the better video & links quality. (Internet mode or Intranet mode)

(5) "Frame rate" This limits the maximal refresh frame rate per second. Set the frame rate higher for a smoother video quality.

(6) "Intra frame period" Determine how often to plant an "I frame". The shorter the duration, the more likely you will get a better video quality, but at the cost of higher network bandwidth consumption.

(7) "Video Quality type" Setting optimizes bandwidth utilization and video quality.

-- "Constant bit rate" User can adjust the video quality from 20 Kbps to 12 Mbps.

-- "**Fixed quality**" user can select from lowest quality to get best quality according. The "Quality" are selectable at the following rates: From 1 to 20.

Snapshot and time display setting

Adjust the photo size specifications and choose whether to mark time on the video and photo.

Application

Home	Application setting	
System	Surveillance application is currently enable	
User management	The application sechdule is everyday time: from 00:00:00 to 23:59:59	
Network	The application trigger type is video motion detection,	
Access list	and detecting next event after 5 second(s) The application media is	
Audio and video	system log The application trigger response is	
Video record	sending a E-mail E-mail parameters list as following:	
Stream	E-mail security mode is "SMTP" Sender email address is "support@level1.com"	
Camera control	Recipient email address is "support@level1.com" Server address is "support@level1.com"	
Application	User name is "" Server port is "25"	
Storage	E-mail subject is "Event from IP Cam" E-mail content is "This mail is sent from IP Cam"	
System log		Setup
Status and parameters		

Schedule mode

- (1) "Every day" Enable/Disable every day application.
- (2) "Week day" Enable/Disable week day application.
- (3) "Selected day" Enable/Disable selected day application.

Schedule information

- (1) Enter the "Start time" and "Stop time" for day mode. Note that the time format is [hh:mm:ss] and is expressed in 24-hour clock time. By default, the start and end time of day mode are set to 01:00:00 and 23:59:59.
- (2) "Sun"/"Mon"/"Tue"/"Wed"/"Thu"/"Fri"/"Sat" Select the days of the week to perform the application.
- (3) "Start day" and "Start time" as the start timing the time. "End day" and "End time" as the end timing the time

Trigger mode

(1) "Video motion detection" Enable/Disable video motion application

(2) "Periodically" This option allows the Network Camera to trigger periodically for every other defined minute.

parameters

- (1) "Motion parameters"
 - Higher sensitivity and small threshold will allow easier motion detection.
- (2) "Period parameters" This option allows the Network Camera to trigger periodically for every other defined seconds. Up to 999 seconds are allowed.

Media mode

There are three choices of media types available: "Snapshot"," Generate digital output signal", "Record(Motion Detection only)" and "System log". Snapshot & Record file setting

You can setting the file name, and enable or disable to add the date and time on file name. Can setting the digital output duration seconds.

Response mode

There are five choices of server types available: Email, FTP, NAS, SD Card, and USB storage. Select the item to display the detailed configuration options.

(1)"Email"

-- "Email security mode" : If your SMTP server requires a secure connection (SSL or TLS), check This server requires a secure connection (SSL or TLS). -- "Sender email" address: Enter the email address of the sender.

-- "Recipient email" address: Enter the email address of the recipient.

-- "Server address" Enter the domain name or IP address of the email server.

--"User name" Enter the user name of the email account if necessary.

-- "Password" Enter the password of the email account if necessary

--"Server port" The default mail server port is set to 25. You can also manually set another port.

(2)"FTP"

-- "Server address" Enter the domain name or IP address of the FTP server.

-- "Server port" By default, the FTP server port is set to 21.

-- "User name" Enter the login name of the FTP account

-- "Password" Enter the password of the FTP account.

-- "FTP folder name" Enter the folder where the media file will be placed. If the folder name does not exist, the Network Camera will create one on the FTP server.

(3)"HTTP "

-- "URL" Enter the URL of the HTTP server.

-- "User account" Enter the user name if necessary.

-- "User password" Enter the password if necessary.

(4)"NAS"

-- "NAS server address" Enter IP address of the NAS server.

-- "NAS shared directory" Enter the NAS shared directory path.

--"Workgroup" Enter the NAS workgroup parameter.

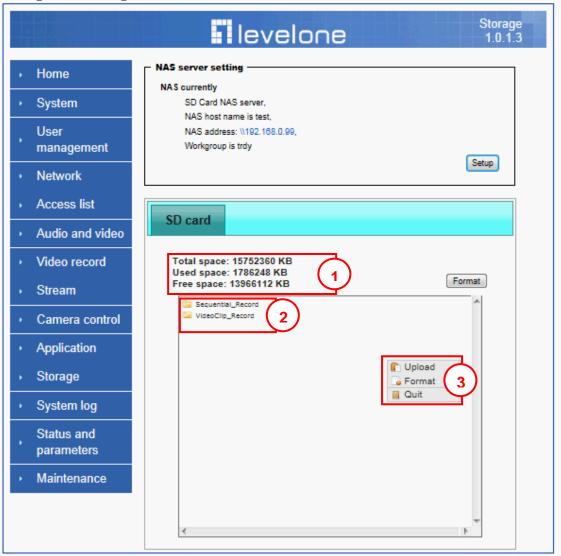
--"User account" Enter the login name of the NAS account

--"User password" Enter the password of the NAS account.

Note: Video record with the Application must be set to the same shared directory path. If you would like to do detail recording settings or multi-channel recording, please install bundled 64CH recording software in CD.

Storage

Manage the storage device.



Storage Status

Here show the storage device information.

NAS server setting

(1) "NAS Host name" Choose and input the NAS Host name of this camera.

(2) "**Workgroup**" Input the name of Workgroup. You can see the NAS Host name you input in the same workgroup with your PC. Then you can connect to this device and download the files easily from SD card which is inserted to this camera.

File operation

Move the mouse over the file. Press the mouse right button that Right-click menu is displayed. You can delete files.

Move the mouse over the directory. Press the mouse left button that the file structure expand. Press the mouse right button that Right-click menu is displayed. You can choose upload or delete files.

NOTE : Allow the user to upload or delete files when the storage device is not writeprotected. If the SD card can't be detected, please link to the following URL: <u>http://www.sdcard.org/consumers/formatter</u> to download the "SD Formatter Kit" formatting your SD card.

Syslog

Home	Remote log setting	
System	Remote log server Disable	
User management	Setu	dr
Network	Current log	
Access list	Sep 3 17:37:54 FCS-3101 syslogd 1.5.0: restart. Sep 3 17:37:54 FCS-3101 syslog: [DEVMGR] Start devmgr process with Pid : 975 Sep 3 17:37:54 FCS-3101 syslog: [Auleght Driver] Start AuLeGht Driver process	
Audio and video	with Pid: 976 Sep 3 17:37:54 FCS-3101 syslog: Network interface is eth0. Sep 3 17:37:55 FCS-3101 syslog: [OnvifApp] Start onvifd process with Pid : 979	=
Video record	Sep 3 17:37:56 FCS-3101 inetd[1182]: can't open /usr/local/var/run/inetd.pid: No such file or directory Sep 3 17:37:56 FCS-3101 inetd[1182]: /etc/inetd.conf:39: bad wait type	
Stream	Sep 3 17:37:56 FCS-3101 crond[1191]: crond (busybox 1.10.4) started, log level 8 Sep 3 17:37:56 FCS-3101 stunnel: LOG4[1197:1024]: Wrong permissions	
Application	on /etc/conf.d/ssl/certificate.pem Sep 3 17:37:56 FCS-3101 stunnel: LOG5[1197:1024]: stunnel 4.26 on arm- unknown-linux-gnu with OpenSSL 0.9.8i 15 Sep 2008	
Storage	Sep 3 17:37:56 FCS-3101 stunnel: LOG5[1197:1024]: Threading:PTHREAD SSL:ENGINE Sockets:POLL,IPv6 Sep 3 17:37:56 FCS-3101 stunnel: LOG5[1197:1024]: 500 clients allowed	
System log	Sep 3 17:37:59 FCS-3101 syslog: Start rtsp process with Pid : 1273 Sep 3 17:38:00 FCS-3101 syslog: [VENC] Start venc process with Pid : 1396	
Status and parameters	Sep 3 17:38:01 FCS-3101 syslog: [DIDO] Reload configure file Sep 3 17:38:02 FCS-3101 syslog: [VENC_Capture] Start VENC_Capture process with Pid : 1518 Sep 3 17:38:04 FCS-3101 syslog: [RtspServer] rtp start port is 54 Sep 3 17:38:04 FCS-3101 syslog: Auto change IP Address to 192.168.0.99.	
Maintenance	Sep 3 17:38:04 FCS-3101 udhcpc: deconfig Sep 3 17:38:09 FCS-3101 syslog: Notice Event prcess is failed	

The Network camera supports log the system messages on remote server. The protocol is compliant to RFC 3164. If you have external Linux server with sys log service, use "-r" option to turn on the facility for receiving log from remote machine. Or you can use some software on Windows that is compliant to RFC 3164. An example is Kiwi Syslog Daemon. Visit <u>http://www.kiwisyslog.com/kiwi-syslog-daemon-overview/.</u> Check "**Setup**" and "**Enable**" then input the "**IP address**" and "**port**" number of the log server to enable the remote log facility.

In the "**Current log**", it displays the current system log file. The content of the log provides useful information about configuration and connection after system boot- up. "**finish**" Click on this button to save modify settings.

Status and Parameters

User can find a lot of information about the system such as **"Upnp port forwarding"**, **"Traversing NAT"**, **"Public IP"**, and so on. User also can get the number of current viewer of the Network Camera here.

	levelone	Status and parameters 1.0.1.3
▶ Home	- Status	
 System 	Upnp port forwarding Failure	
User management	Traversing NAT Failure Public ip	
Network	192.168.0.99:80 Current viewers	
Access list	0	
Audio and video	- Parameters	
Video record	[System parameters] hostName="FCS-3101";	
Stream	enableLed=true; timeZone=80; supportAutoDST=false;	
Application	enableDST=false; timeMethod=0;	
Storage	ntpServer="time.stdtime.gov.tw"; updateInerval=1; doActState=false;	
System log	diActState="high"; doCurState=true; diCurState="high";	
Status and parameters	doCurstate="false"; connection="false"; doState=false; connection=false;	
Maintenance	nu_Fw=15;	
	[Network parameters] networkType="lan"; enableDhcp=true;	•

Maintenance

	Maintenance 1.0.1.3
 Home → System 	Reboot system Use the button to reboot the system Reboot
User management → Network	Restore system Restore all settings to factory default except settings in Image: Network type Root password Restore
Access list Audio and video	Export/Import fileExport setting backup fileExport setting backup fileImport
 Video record → Stream 	Upgrade firmware Select a file to upgrade 瀏覽
Application Storage	
→ System log	
Status and parameters Maintenance	

1. "Reboot system" The *"Reboot"* button will reboot the Network Camera. It's useful while the Network Camera got problem.

2. "Restore system" Click on "*Restore*" button on the configuration page to restore the factory default settings. Restore all settings to factory default except settings in "Network type" and "Root Password". The system will restart and require the installer program to set up the network again.

3. "Export/Import file"

-- Export setting backup file: Click to export all parameters for the device and user-defined scripts.

-- Upload setting backup file: Click Browse... to upload a setting backup file. Please note that the model and firmware version of the device should be the same as the setting backup file. If you have set up a fixed IP or other special settings for your device, it is not suggested to upload a settings backup file.

4. "Upgrade firmware" Select the firmware file and click upgrade button. Please be aware that you should not turn off the power during updating the firmware and wait for finish message.

Warning: The upgrade firmware procedure cannot be interrupted. If the power

and/or network connection are broken during the procedure, it might possibly cause serious damage to the Network Camera.

Note: When upgrade firmware please wait for 90~210 seconds, and then you can connect to Network Camera again. The system will restart and require the installer program to set up the network again.

Appendix

A. Troubleshooting & Frequently Asked Questions

Q1: Status led does not light up.

A1: First, make sure that [¬] Configuration>System>Turn off the LED indicator _」 is disabled. If it is, check the item, and the led should light up. Second, if red led does not light up, please check that the power adapter in the package is plugged correctly. And last, if green led does not light up; please check that category 5 UTP cable is plugged correctly. If the problem is still not solved, please contact your dealer for further help.

Q2: What kind of Ethernet cable is used by network camera?

A2: The network Camera uses Category 5 UTP cable allowing 10 and/or 100 Base-T networking.

Q3: The Network Camera will be installed and work if a firewall exists on

the network?

A3: There are two way to set up the IP camera at Internet.

- (1) By UPnP Port Forwarding
- 1. Select an IP router. It must support UPnP port forwarding and enable this function first!!

UPnP Settings

You can setup this item if you want to enable UPnP.

۲	Enable	d 🔘	Disa	bled
-				

- 2. Connect camera RJ45 cable to IP router and the router is also connected to Internet.
- 3. Plug power cord to camera.
- 4. Go to camera Network page. Enable UPnP port forwarding

Γ	Network setting
	Please enable or disable UPnP presentation
	Enable
	© Disable
	Cancel Prev Next Finish

5. Check camera status, we can see the ports had been successfully opened!

- Status	
Upnp port forwarding	
Failure	
Traversing NAT	
Failure	
Public ip	
192.168.228.217.8080	
Current viewers	
0	

6.Type IP address:8080 at browser. Then you can see camera through Internet.



7.You can also type the ddns name at below label of camera on browser URL field. For example, you may type ah00001.ip-discovery.com:8080.

(2) By Setting Port Forwarding Manually

1. Select a router. Set the port forwarding as following.

Virtual Server Lists			17 / 32 (Numb	oer / Total)
Name	Private IP	Protocol	Schedule	
Virtual Server FTP	0.0.00	TCP 21/21	Always	21
Virtual Server HTTP	0.0.0.0	TCP 80/80	Always	20
PTCam	192.168.0.100	TCP 443/443	Always	21
Virtual Server DNS	0.0.0.0	UDP 53/53	Always	21
Virtual Server SMTP	0.0.00	TCP 25/25	Always	2
Virtual Server POP3	0.0.00	TCP 110/110	Always	2
Virtual Server Telnet	0.0.0	TCP 23/23	Always	21
IPSec	0.0.0.0	UDP 500/500	Always	2
PPTP	0.0.0	TCP 1723/1723	Always	21
NetMeeting	0.0.0	TCP 1720/1720	Always	21
DCS-1000	0.0.0.0	TCP 80/80	Always	21
DCS-2000	0.0.0	TCP 80/80	Always	21
DVC-1000	0.0.0.0	TCP 1720/1720	Always	2
PTCarr	192.168.0.100	TCP 80/80	Always	
V PTCam	192.168.0.100	UDP 53/53	Always	21
V PTCam	192.168.0.100	TCP 554/554	Always	21
28067	192.168.0.102	TCP 28067/28067	Always	

PS. Port 80 is HTTP Port, port 53 is stream port, port 554 is RTSP port. and port 443 is HTTPS port.

2.Go to camera Network page. Disable UPnP port forwarding function.

Network setting
Please enable or disable UPnP presentation
© Enable
Disable
Cancel Prev Next Finish

- Network	Network setting						
Please i	Please input the port parameters						
_							
H.	TTP port	80					
H.	TTPS port	443					
R	TSP port	554					
Vi	ideo RTP port	54					
Vi	ideo RTCP port	55					
Αι	udio RTP port	56					
Au	udio RTCP port	57					
			Cancel Prev Next Finish				

- 3. Type IP address at browser. Then you can see camera through Internet.
- 4. You can also type the ddns name at below label of camera on browser URL field. For example, you may type ah00001.ip-discovery.com.

🖉 Home - Windows Internet Explorer							
0	📀 💿 🗢 🙋 http://sh00001.ip-discovery.com/index.htm						
<u>F</u> ile	<u>E</u> dit	<u>V</u> iew	F <u>a</u> vorites	<u>T</u> ools	<u>H</u> elp		
		8	🤊 Mainter	iance (9)	🤌 httpah00006.ip-	discovery.c	
🥖 Н	lome						

Note: The firewall software at PC may block the transfer of network camera. Please remove or stop the kind software.

Q4: How can I find the network camera in the local area network?

A4: By using the IP Finder2 program or using UPnP to find it.

Q5: IP Finder2 program cannot find Network Camera in the local area

network at first time?

A5: Make sure the subnet of network camera is same as your PC. If the local area network supports DHCP, the camera is "Get IP address automatically" in the "Network" page default. If the local area network does not support DHCP, change your PC IP address to "192.168.0.xxx".

Q6: How can I restore the network camera to default value?

A6: Use a gem clip to press on the inside button. Network camera begins to restore default value. You can also press the button "**Factory**" in "Maintenance" page to restore the default value.



Q7: I cannot play the recorded video file.

A7: Install the audio codec in the CD, and use the Windows Media Player 10 or later to play the ***.ASF** or ***.AVI** file recorded by the network camera.

Q8: Infrared led does not light up?

A8: Check Configuration>Audio and Video>Infrared LED Control is "Auto" or "Manual» Turn on".

Q9: The network camera cannot focus accurately.

A9:

(1) The lens is dirty or dust is attached. Clean the lens with lens cleaner. And then adjust the camera focus manually.

(2) The image may be out of focus. If the object is too near, move the object away from Network Camera.

Q10: The cover of network camera is warm. Is it normal?

A10: Network camera is a precision device. The internal material has the operational temperature, and it is normal when user touch the cover feels warm. It is recommended to put the network camera at aired place, and not put at any other device.

Q11: The process of upgrade firmware abort.

A11: Contact your dealer for further help.

Q12: Cannot access the login page and other web pages of Network

Camera from Internet Explorer

A12:

• May be due to the network cable. Try correcting your network cable and configuration. Test the network interface by connecting a local computer to the Network Camera via a crossover cable.

• Make sure the Internet connection and setting is ok.

• Make sure enter the IP address of Internet Explorer is correct. If Network Camera has a dynamic address, it may have changed since you last checked it.

• Network congestion may prevent the web page appearing quickly. Wait for a while. The IP address and Subnet Mask of the PC and Network Camera must be in the same class of the private IP address on the LAN.

• Make sure the http port used by the Network Camera, default=80, is forward to the Network Camera's private IP address.

• The port number assigned in your Network Camera might not be available via Internet. Check your ISP for available port.

• The proxy server may prevent you from connecting directly to Network Camera, set up not to use the proxy server.

• Confirm that Default Gateway address is correct.

• The router needs Port Forwarding feature. Refer to your router's manual for details.

• Packet Filtering of the router may prohibit access from an external network. Refer to your router's manual for details.

• Access Network Camera from the Internet with the global IP address of the router and port number of Network Camera.

• Some routers reject the global IP address to access Network Camera on the same LAN. Access with the private IP address and correct port number of Network Camera.

• When you use DDNS, you need to set Default Gateway and DNS server address.

• If it's not working after above procedure, reset Network Camera to default setting and installed it again.

• Maybe the IP Address of the Network Camera is already being used by another device or computer.

• If the problem is not solved, the Network Camera might be faulty. Contact your dealer for further help.

B. Technical specifications

Quetern	Comore encelfication
- System	- Camera specification
RAM: 4G DDR Ⅲ	1/2.7 inch color CMOS sensor, Resolution:
ROM: 16MB Flash ROM	1920x1080 1.0Lux/F2.0
	AGC, AWB, AEC
- Infrared Led	- Lens
Auto/Manual mode, 10~12 M visible	
Daylight sensor, angle +/-65, wave length	Fixed focal with fine tuning, 4.0mm+/-5%, F/1.5+/-5%
400~700nm	
Spectral band width 42nm, Peak emission	
	D:80° +/-5% H:74° +/-5% V:57° +/-5%
wavelength 850nm	
- Protocol	- Video Resolution
TCP/IP, HTTP,UDP, SMTP, FTP, DDNS,	Up to 30 frames at 176x144
UPnP, Telnet, NTP, PPPoE, RTSP,	Up to 30 frames at 320x240
RTP,RTCP,DHCP and DNS	Up to 30 frames at 640x480
, -,	Up to 30 frames at 1280x800
	Up to 30 frames at 1280x1024
	Up to 30 frames at 1920x1080
- Algorithm supported	- Audio
H.264/MPEG4/MJPEG dual codec for	AMR/AAC/G.711
streaming video	
JPEG for still image	
-	David
- Physical	- Power
10 baseT or 100 baseT Fast Ethernet auto	Input: 100-240VAC, 50/60Hz, 0.7A
negotiation	Output: 12VDC, 1.5A
	Consumption: Max 12 W
	Support 802.3af compliant Power over
	Ethernet
- EMI & Safety	- Dimension
CE, FCC	63 x 91 x 84 (mm)
Den (Till en els	Ou and the a Frankram and
- Pan/Tilt angle	- Operating Environment
Support multi - direction movement	Temperature : 0 - 40°C
Pan: 200°(-100°~100°)	Humidity: 85% RH
Tilt: 70°(20°~90°)	
- Weight	
NET. 280g	

Notification of Compliance

Appendix C

Europe - EU Declaration of Conformity

For complete DoC please visit http://global.level1.com/downloads.php?action=init

GPL License Agreement

GPL may be included in this product, to view the GPL license agreement goes to <u>http://download.level1.com/level1/gpl/GPL.pdf</u>

For GNU General Public License (GPL) related information, please visit http://global.level1.com/downloads.php?action=init