

LevelOne

FCS-4000 / FCS-4100 / FCS-4200 FCS-4300 / FCS-4400 / FCS-4500 Day/Night P/T/Z IP Speed Dome Camera

User Manual

Ver:2.1.0-0804

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Before You Use This Product

The use of surveillance devices may be prohibited by law in your country. 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 a network device and its use should be straightforward for those who have basic network knowledge. The "**Troubleshooting**" chapter in the Appendix provides remedies to the most common errors in set up and configuration. You should consult this chapter first if you run into a system error.

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.

For paragraphs preceded by
the reader should use caution to understand completely the warnings. Ignoring the warnings may result in serious hazards or injuries.

ATTENTION

- 1. All operation please refer to the instruction.
- 2. Please don't place the product on unstable desk or bracket.
- 3. Please avoid any liquid permeate inside of the machine in case damage the product.
- 4. Before wiring, please follow all electronic safety standards, and using the original attached power supply adapter.
- The RS-485 and Video signal of the product use TVS grade lightning protection technology can prevent effectively lightning strike under 500W. The cable transmission of RS-485 and Video signal should keep a certain distance with high voltage equipments or cables.
- 6. Do not let the camera aim at sun or other lighting objects no matter the camera is operating or not, otherwise it might damage the CCD camera permanently.
- 7. When the product is out of order, please do not try to fix it by yourself, please refer to the trouble shooting section of this instruction to figure out the problems in advance. If the problem is not found, please contact us or our authorized dealers directly.
- 8. All the features and functions are subject to change without notice. Please visit <u>www.level1.com</u> for the latest ones.

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Package Contents

- FCS-4000/FCS-4100/FCS-4200/FCS-4300/FCS-4400/FCS-4500
- Power Adapter
- Power & A/V Cable
- LAN Cable
- Alarm Cable
- CD Manual/Utility
- Quick Installation Guide

Functions and Operation directory

Followed is the brief introduction of main functions and operations of LEVELONE IP SPEED DOME, different operation platform may have different operating methods, generally base on the manual. Special operating demand, please contact your dealers.

Pan/Tilt/Zoom

Users can control camera up/down/left/right via software commends. In addition users can adjust the zoom to have best view for the desire target. Auto focus and iris adjustment while seeing the far object.

Focus/RPM auto matching technology

With focus/PRM matching technology, the step-motor will adjust the pan/tilt speed automatically, let the operation easier while zoom the far target.

Auto flips

While tilting the camera at the vertical end, the camera will rotate 180° automatically then turn to another side of 90° angle to see directly the back of object, realizing vertical 180° surveillance.

Preset position set up and recall

The preset position feature can store current position of camera viewing, users can recall those preset positions instantly via surveillance software. The intelligent IP speed dome supports 32 preset positions. The intelligent speed dome supports 4 navigation groups, each group is capable to having 8 present positions

Lens control

• Focusing control:

Users can press the zoom button to adjust the image viewing distance.

Iris control

The factory default is auto iris, ensuring to have the best image quality. In particular circumstances, the operator can also use manual iris feature.

Hardware Installation

Installation Notice

Please be sure to follow all the steps of the instructions. Wrong installation may damage the product.

FCS-4300/4400/4500Housing installation

• Outer housing fixing as below, click down the iron slice then pull it up.



• Before install inner housing, please hook the safety lock of outer housing on the fixing socket of inner housing, in case of installation accidents.



• Please fix the three screws on the side before install the camera.



Finally cover up the smoked cover to accomplish the installation. Please be sure hands are clean while cover up, or it may dirty the cover. It's recommended to tear off the protect membrane after installation is finished, or wear on gloves.

FCS-4000/4100/4200Housing installation

The installed spot must be held to the product firmly, in case the image shaken while the camera operates.

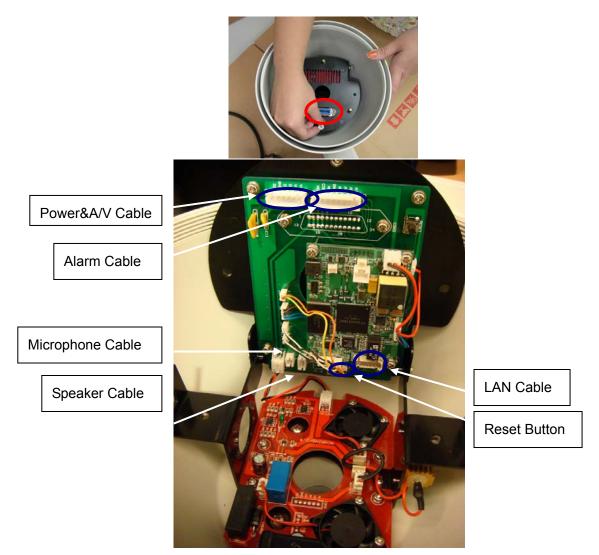


• Put the cable tube into the power box, and screw it.

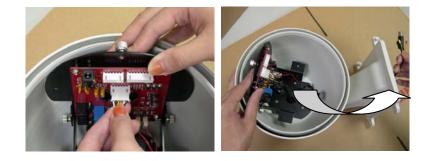
• Using hexagon screw driver to fix the housing and bracket.



• unscrew the bottom screw to install cables.



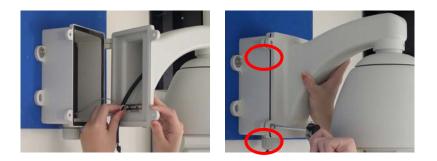
• Insert the plug, and pull these cables through out from the bottom of bracket.



• For the alarm cable

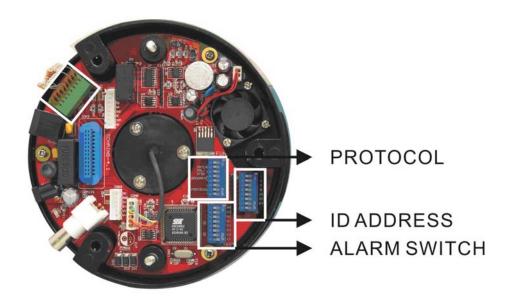
Brown	Red	Orange	Yellow	Green	Blue	Black	White
DI 1	DI 2	DI 3	DI 4	GND	NC	СОМ	NO

• Hook up the safety buckle, and screw the two screws to fix the power box.



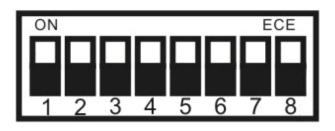
Camera installation

 Before installation, please set for the communication protocol, baud rate and camera ID address first.



ID address setup

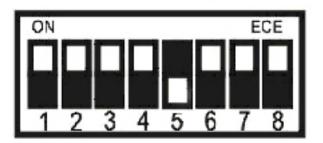
There are 8 dip-switchers on the PCB board. Please set it up as below: All the dip-switchers are OFF.



*Remarks: Please reboot the camera after the camera setup is done.

Protocol setup

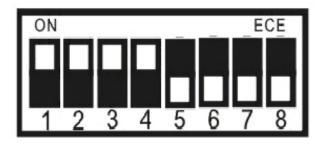
The dip-switchers are for protocol setup. Please set it up as below: No.5 is ON.



*Remarks: Please reboot the camera after the protocol setup is done.

• Alarm Dip-switchers

The dip-switchers are for DI/DO setup. Please set it up as below: NO. 5/6/7/8 is ON.



• Aim the camera plug to the bottom socket to connecting.



 You can also follow the triangle in front of camera and aim at the bottom screw to fixing.



• After the camera is installed, please turn the camera and fixing the two side screws.

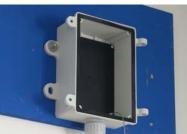


• Finally cover up the smoked cover to accomplish the installation. Please be sure hands are clean while cover up, or it may dirty the cover. It's recommended to tear off the protect membrane after installation is finished, or wear on gloves.

Bracket installation

• CAS-4000A wall mount Kit

Fixing power box on the wall.



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Hook up the safety buckle, and screw the two screws to fix the power box.



• CAS-4000B ceiling mount kit

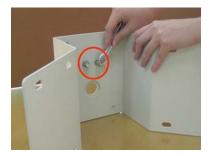
Fixed the iron tube to the cover of power box.



• CAS-4000C corner mount kit

Combine two brackets, and use the spanner to fix the screw.





Turn the screw to tighten the brackets and power box.





The assembly completed.



CAS-4000D pole mount kit

Fixed the bracket on the rear of power box.



The assembly will be done after the stainless ring is hooped.



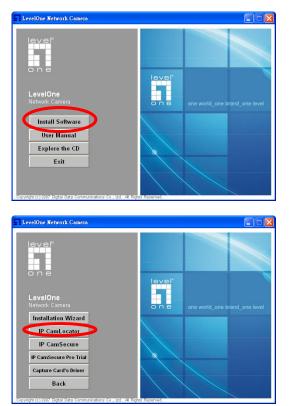
Software Installation

In this manual, "User" refers to whoever has access to the Network Camera, and "Administrator" refers to the person who can configure the Network Camera and grant user access to the camera.

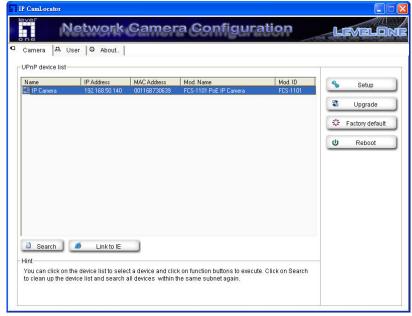
At the end of the hardware installation, the Administrator must place the product software CD into the CD-ROM drive of the PC running in MS Windows. An auto-run program will pop up (If the program is not on auto-run, go to the root directory of the software CD and click on "autorun.exe").

Install "IP CamLocator"

Click on "Install Software" item, after the window contains changed, click on "IP CamLocator" to run installation program.

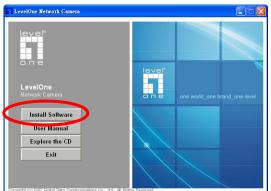


Upon IP CamLocator's start up, this program searches for LevelOne's products on the same LAN. After searching, LevelOne Video Servers or Network cameras will be located by the IP CamLocator. There may be several entries shown in the window. The Administrator may differentiate the Network cameras with the model number and MAC address.



The IP addresses shown in the "IP Address" field reflect those on the local network. They may be from the DHCP server. If there is no DHCP server, the camera will try to find a free IP address (this takes from 15 second to 3 minutes, depending on the LAN status). The method of finding IP address is seeking from 192.168.0.2, to 192.168.0.254. If any of the address inside this range is free, the Network Camera will be assigned to this IP address, and its subnet mask would be 255.255.255.0.

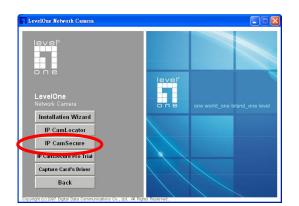
Install "IP CamSecure"



Click"Install Software"

Click"IP CamSecure" and follow the onscreen instruction or refer to the user's manual to

complete installation.



Custom Setup Type:

Setup Type Select the setup type to install.	N-24
Please select a setup type.	
Complete All program features will be instal	led. (Requires the most disk space.)
Custom Select which program features y advanced users.	ou want installed. Recommended for
allShield	<back next=""> Cancel</back>
gi <mark>tal Surveillance System - InstallShield 1</mark> Select Features Select the features setup will instal	Fixed
Select the rearges setup will mital.	a contract of the second
Select the features you want to install, and dear	ect the features you do not want to install.
	elect the features you do not want to install. Description The main control console of the Digital Surveillance System.
Select the features you want to install, and dear	Description The main control console of

You may install the system to the directory of your preference and choose which feature(s) you want to install to the PC.

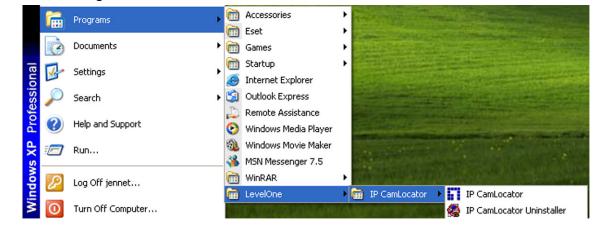
Hint: You may, for instance, install only Playback and/or LiveView on the PC at home or other remote site from which you do not install the camera but are going to watch them remotely.

How to Use IP CamLocator

This chapter introduces how to monitor the image from the camera using **IP CamLocator**. The LevelOne video server and Network camera can be used with Microsoft web browsers and IP CamLocator in Windows operation systems. This document focuses on introducing IP CamLocator.

Initial use IP Cam Locator

Click Start -> Program Files -> LevelOne -> IP Cam Locator -> IP Cam Locator.



Configuration of Main Console

IP CamLocator						
N	etwork	Came	a Configu	uration	LEMELONIE	
	er 🛛 🗢 About. 🗎				Main	Men
UPnP device list						
Name	IP Address 192 168 50 140	MAC Address 001168730639	Mod. Name FCS-1101 PoE IP Camera	Mod. ID FCS-1101	Setup	
	132,100,30,140	001100130033		1001101	🔹 Upgrade	
					Factory default	
					U Reboot	
Search	🗉 Link to IE					
Hint						
You can click on the			k on function buttons to ex	ecute. Click on Search		
to clean up the devi	ce list and search	all devices within	the same subnet again.			

Main Menu

Camera

Click this button to get into common information of all Network cameras in network. You can connect the specific Network cameras to get life video and to optimize video setting.

User

Click this button to get into user basic setting information of all Network cameras in network. You can connect the specific Network cameras to get and set basic values. This section includes Info, User, Date Time, TCP/IP, PPPoE and DDNS.

Note: Only the administrator has access to the Settings.

About

Click this button to get into information of IP CamLocator.

Camera

The Camera page provides you LevelOne network cameras in the network with information, including product name, IP address, MAC address, model name and model ID. Click on specific network cameras to optimize Video Setup including brightness, contrast, saturation and hue.

51	IP CamLo	cator						
	evel	Ne	etwork	Came	ra Configu	ration	NE WEIT	
•	Camera	A Use	r 🛛 About					
1	UPnP dev	/ice list						
	Name	nera	IP Address 192,168,50,140	MAC Address 00116B730639	Mod. Name FCS-1101 PoE IP Camera	Mod. ID FCS-1101	-	Setup
							8	Upgrade
							\$\$	Factory default
							U	Reboot
							_	
	a Sea	irch	🗧 🛛 Link to IE					
1	Hint						-	
					ick on function buttons to exe 1 the same subnet again.	cute. Click on Search		

Search: Click it to search Network Cameras in the network, it displays Network Cameras information including Name, IP Address, MAC, Mod. Name and Mod. ID.

Note:

If the camera is not located in local network, it will appear in red text. Some information is not available when the IP camera is not in local network.

The IP addresses shown in the "IP Address" field reflect those on the local network. They may be from the DHCP server. If there is no DHCP server, the video server will try to find a free IP address (this takes from 15 second to 3 minutes, depending on the LAN status). The method of finding IP address is

seeking from 192.168.0.2, to 192.168.0.254. If any of the address inside this range is free, the Network Video server will be assigned to this IP address, and its subnet mask would be 255.255.255.0.

Link to IE : After searching Network Cameras in network, you can click to specific Network Cameras in search area and press **Link to IE** to use IP cameras with Microsoft web browses.

Setup

Choose a network camera, click on Setup to change the configurations. You have to key in the username and password of the administrator to enter the setup page. The following screen will display:

Note:

For IP cameras not in local network area (which appears in red in the search screen), you can still use setup to change the configurations of these cameras.

System Information: The system information is displayed.

IP CamLocator	
Network Camera Configuration	LEVELONE
System information - 192.168.50.140 Product Name : FCS-1101 PoE IP Camera Firmware Version : LM.1.6.16.00B1 Web version : LM.1.6.16.00B1 Hint System information displays device product name, firmware and Web version.	Previous Next Cancel

Account settings: The account setting is displayed. You can change the account setting here.

	etwork	Camer	a config	guration	LEVELO
ccount settings -	100 100 50 140				
ccount settings -	User name	Password	Confirm	Mode	🗢 Previous
Administrator	root	*****	******	Admin 👻	Next
User 1				Admin 💌	Hon
User 2				Admin 🔹	
User 3				Admin	X Cancel
User 4				Admin	
User 5				Admin 💌	
User 6				Admin 💌	
User 7				Admin 💌	
User 8				Admin	
User 9				Admin 💌	
Viewe	r authentication	€ On C Of	Ť		
lint					
To change the au fields.	thentication accour	nt, type the new accou	int and password ar	nd select security mode in	

Date/Time settings: You can set the date/time of the network camera here. See "Hint" for details.

Net	work Camera	Configurati	ion	LEVELOR
Date/Time settings - 192.	168.50.140			6
Current Setting :	2008/ 2/13 -	41		Previous
PC clock :	2008/ 2/13	42		Next 🔍
Adjust:	C Synchronize with PC C Manual setting :	10:00	Auto hours.	Cancel
Time zone :	(GMT+08:00) Taipei		•	
Hint				
Synchronize with PC. Th	adjust system date and time. The easi e second way Manual setting is to set t nchronize with NTP is to make Network ernet.	the date and time manually by	/ entering new	

Network settings: You can change the network settings of the network camera here. See "Hint" for details.

CamLocator		
Network Cam	era Configuration	LEVELO
letwork settings - 192.168.50.140 Http Port: Port 80 Cothers MAC Address : 00:11:6B:73:06:39 - IP Address	0 (1024 - 65535)	PreviousNext
Obtain IP automatically (DHCP) Ouse the following IP IP Address: 192_168_50_140 Subnet mask: 255_255_265_0 Default Gateway: 192_168_50_1	Obtain DNS server automatically Outain DNS server Primary DNS : Secondary DNS :	X Cancel
lint You can change the device HTTP port, IP address, s secondary DNS. If you use PPPoE, skip IP address :	ubnet mask, default getway, primary DNS, and and DNS settings. Then click on Next to setup PPPoE.	_

PPPoE settings: You can change the PPPoE settings here. See "Hint" for details.

		6
PPPoE C On	© 01	Previous
IP Address :	DNS Setting	I Next
User ID :	C Use the following DNS server	
Password :	Primary DNS :	X Cancel
Confirm :	Secondary DNS :	

DDNS settings: You can change the DDNS settings here.

? CamLocat	01	
	Network Camera Configuration	LEVELO
DDNS settin	gs - 192.168.50.140	
DDNS	⊂on conf	C Previous
	Server Name : http://www.dyndns.org 💌	Next
	User ID :	
	Password :	X Cancel
	Confirm :	
	Hostname :	
Hint		
	ut correct Dynamic DNS settings include login user ID, password, and registered DDNS	

Apply settings: Click on "Apply" to use the new settings.

IP CamLocator	🛛
Network Camera Configuration	LEVELONE
- Apply settings - 192.168.50.140	
	Previous
Click Apply button to update the current settings and to selected device. Or click Previous to modify changes.	Apply
	X Cancel
🔽 Reboot system to apply new (network) settings.	
- Hint	
Make sure all settings are correct and valid.	
<u></u>	

Choose "Reboot system to apply new (network) settings" to reboot after the settings are applied.

Upgrade

Choose a network camera, click on Upgrade

S Upgrade

lo upgrade the firmware. You have to

key in the username and password of the administrator to enter the upgrade page.

The following screen will display:

IP CamLocator						
one	Vetwork	Camera	Config	guration	CONE WORKS	Malon
- Upgrade - 192.10	68.50.140					
Name IP Camera	IP Address 192,168,50,140	MAC Address 001168730639	Mod. ID FCS-1101	Status	4	Previous
IP Camera	192 168.50 140	001168730639	RUSHTUT	UK	12	Upgrade
Image file	name:			🔍 Browse		
lmage v	version:					
Hint					_	
	er button to select the file k on Upgrade to start up					

Choose the firmware image file you want to upgrade and press "Upgrade" to start. The device will automatically reboot after upgrade.

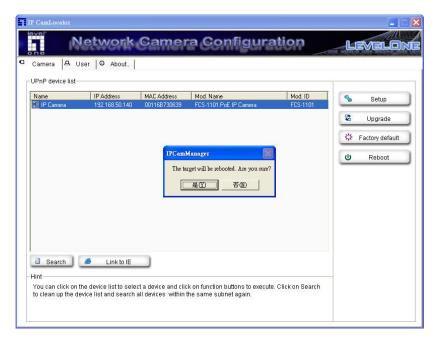
Factory Default

🔆 Factory default

to reset the configurations to

Choose a network camera, click on Factory default

default. You have to key in the user name and password to use the factory default function.

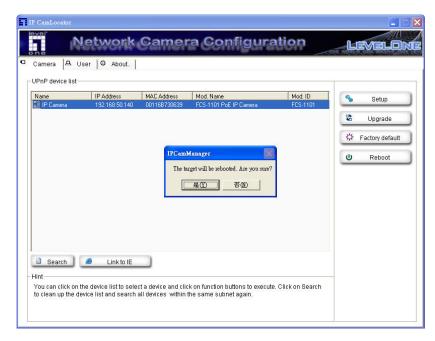


Click on "OK" to continue. The device will automatically reboot after the configurations set to default.

Reboot



in the user name and password to use the reboot function.



Click on "OK" to continue. The device will automatically reboot.

User

The System page provides you all Network Cameras configurations in the network with product or downloaded configuration file information, including Info, User, Date Time, TCP/IP, PPPoE and DDNS.

	About.		
oad configuration File : :urrent Setting :	From PC File 192.168.50.140	From Device	🔂 Load
nfo User Date/Time	TCP/IP PPPOE DDNS	1	
Product Name :	FCS-1101 PoE IP Camera		
Firmware Version :	LM.1.6.16.00B1		
Web version :	LM.1.6.16.00B1		

Load configuration File : Select **From PC File** or **From Device**, the former can load information of downloaded configuration file and the latter can load Network Camera configurations in the network.

From PC File : Click it and press Load to select configuration location from PC.

Note: • Configuration file format is *.conf.

Network Camera Configuration
Camera User About
Load configuration File : © From PC File © From Device Current Setting : No selected config.
Info User Date/Time TCP/IP PPPoE DDNS
開始 伊roducti でF3_T01F001_DM_0.303_DDC.FCS1081.conf でF3_T01F001_JM_0.303_DDC.FCS1081.conf でF3_T01F001_JM_0.303_DDC.FCS5011.conf 自evise.conf Firmware Ve Hardware Ve 権案名稱(1): 権案相對(1): Config Files (*.conf) 下波波
Apply: Save

From Device : Click it and press Load to select the specific device in the network. Type the Username and Password to load configuration from device.

Note: If you have connected to the specific device before, you don't have to type the **Username** and **Password** again.

IP CamLocator	
Network Camera Configuration	LEVELONE
Camera User About	
Load configuration File : © From PC File C From Device Current Setting : No selected config.	Load
Info User Date/Time TCP/IP PPPoE DDNS Pevice List In Camera 192.168.1.190 MAC Mod.Name Mod.IC IP Camera 192.168.1.142 FCS-5011 FCS-5 IP Camera 192.168.1.142 FCS-4000 FCS-40	OK Cancel
	Apply. Save
·	

After loading, you can get configuration from PC files or devices. IP CamLocator displays the sub folders including Info, User, Date Time, TCP/IP, PPPoE and DDNS.

Info

The Info page provides you with product factory information, including Product Name, Firmware Version and Web version.

(P CamLocator			
Netw	ork Camera C	Configuration	LEVELOR
Camera 🖰 User 🛛 .	About.		
Load configuration File : Current Setting :	C From PC File 192.168.50.140	From Device	🖍 Load
Info User Date/Time	TCP/IP PPPOE DDNS	1	
Product Name :	FCS-1101 PoE IP Camera		
Firmware Version :	LM.1.6.16.00B1		
Web version :	LM.1.6.16.00B1		
		Apply	Save Save

User

The Network Camera default account and password setting is "root/MAC address of IP camera (in capital letters)". IP CamLocator provides to assign a password if the Network Camera is intended to be accessed by others. Use this menu to set the username and password of Administrator and up to 9 different users (User 1 to User 9), and the authentication access right of each group.

Camera 🕰 U	Jser O About.	1			Contraction of the second of
.oad configuratio Current Setting :	n File :	C From PC File 192.168.50.140	ه	From Device	Load
nfo User	Date/Time TC	P/IP PPPoE DC	DNS		
	User name	Password	Confirm	Mode	
Administrator	root	*****	*****	Admin 👻	
User 1				Admin 👻	
User 2				Admin Operator	
User 3				Viewer	
User 4				Admin 🚽	
			l	Admin 🔹	
User 5					
User 6				Admin 👻	
User 7				Admin 💌	
User 8				Admin 💌	
User 9				Admin 👻	

Username : Set a user name between 5 and 16 characters.

Password : Set a password between 5 and 16 characters.

Confirm : Re-type the password to confirm.

Mode : Set a user to Admin, Operator or Viewer mode.

Viewer authentication : Allows any viewer direct access to Live View.

Date/Time

ne		conngaraa	1011	_LeN	ريوروين
Load configuration File : Current Setting : Info User Date/Tir	From PC File 192.168.50.140 ne TCP/IP PPPoE DDN:	From Device			Load
	2008/ 2/13 • 17:17: 2008/ 2/13 • 17:17: • Keep current setting • 17:17: • Synchronize with PC • • • Manual setting : 2008/ 1/ 1 • • 2008/ 1/ 1 • 00:0 • Synchronize with NTP : NTP server name :		₩ Auto hours.		
Time zone :	(GMT+08:00) Taipei		•		

Current date & time : This displays the current date and time of the camera.

PC clock : This displays the date and time of the monitoring PC clock.

Adjust : Select one of four time adjusting modes.

Keep current setting : Select this mode to keep the current date and time of the camera.

Synchronize with PC: Select this mode to make the date and time of the camera the same as the monitoring PC.

Manual setting : Select this mode to manually adjust the date & time of the camera.

Synchronize with NTP: Specify the **NTP server name** and the Refresh **Interval** to synchronize the date and time of the camera with those of the time server, known as the NTP (Network Time Protocol) server.

Note:

 The NTP server (Network Time Protocol) is the time server which is an Internet standard protocol (built on top of TCP/IP) that assures accurate synchronization to the millisecond of computer clock times in a network of computers.

NTP server name: Type the host name or IP address of the NTP server, up to 64 characters.

Time zone : Select the time zone and time difference from Greenwich Mean Time in the area where the camera is installed from the pulldown box.

TCP/IP

Camera 🕰 User 🛛 Abi	out	۵ ا	\$
Load configuration File : Current Setting :	C From PC File 192.168.50.140	From Device	Load
- IP Address - Obtain IP automatically (C Use the following IP IP Address : 192		DDNS (1024 - 65535) DNS Setting ODNS Setting ODNS server automatically Use the following DNS server Primary DNS : Secondary DNS :	

HTTP Port : Select **port 80** in general situations. If you want to use a port number other than **80**, select the text box and enter a port number between 1024 and 65535.

Note :

• When you have set the HTTP port number to a number other than 80 on the Network setting page or in the Setup Program, access the camera by typing the IP address of the camera on the web browser as follows:

Example: when HTTP port number is set to 2000 → http://192.168.0.100:2000/

MAC Address : Display the MAC address of the camera.

IP Address

Obtain IP automatically (DHCP) : If a DHCP server is installed on the network, to select this while the IP address is assigned by the DHCP server.

Note :

• When you set **Obtain IP automatically (DHCP)**, make sure that the DHCP server is working on the network.

Use the following IP : Select this when a fixed IP address is set.

IP Address : Enter the IP address of the camera.

Subnet mask : Enter the subnet mask.

Default Gateway : Enter the default gateway.

DNS Setting

Obtain DNS server automatically : If a DHCP server is installed on the network, to select this while the DNS server is assigned by the DHCP server.

Use the following DNS server : Select this when you set the fixed address as the IP address of DNS server.

Primary DNS : Enter the IP address of the primary DNS server.

Secondary DNS : Enter the IP address of the secondary DNS server, if necessary.

PPPoE

Use this when you connect the camera through PPPoE (Point -to- Point Protocol over Ethernet). PPPoE connection is the protocol that is widely used in xDSL (digital affiliate line such as ADSL, VDSL or SDSL) as the authentication and connection system.

.oad configuration File : Current Setting :	C From PC File 192.168.50.140	From Device	🗳 Load
nfo User Date/Time	TCP/IP PPPoE DDNS	1	
PPPoE © On	C Off		
IP Address :		S server automatically	
User ID :	C Use the fo	llowing DNS server	
Password :	Prima	iny DNS :	
Confirm :	Seconda	ary DNS :	

IP Address : The IP address obtained at the PPPoE connecting with network.

User ID: Enter the user ID for authentication necessary for PPPoE connections. Type it up to 64 characters.

Password : Enter the password for authentication necessary for PPPoE connections. Type it up to 32 characters.

Confirm : Re-type the password to confirm.

Obtain DNS server automatically : Select this to obtain the address of DNS server automatically.

Use the following DNS server : Select this when you set the fixed address as the IP address of DNS server.

Primary DNS: Enter the IP address of the primary DNS server.

Secondary DNS: Enter the IP address of the secondary DNS server.

DDNS

IP CamLocator		
Network Camera	Configuration	LEVELONE
역 Camera 욕 User Q About		
Load configuration File : C From PC File Current Setting : 192.168.50.140	From Device	🛃 Load
Info User Date/Time TCP/IP PPPoE DDNS]	
DDNS COn ເຈີOff		
Server Name : http://www.dyndns.org 💌		
User ID :		
Password :		
Confirm :		
Hostname :		
	Apply	Save Save

Server Name : Select the DDNS Server

User ID: Enter the user ID for authentication necessary for DDNS connections. Type it up to 64 characters.

Password : Enter the password for authentication necessary for DDNS connections. Type it up to 32 characters.

Confirm : Re-type the password to confirm.

Hostname: Enter the host name that is registered to the DDNS server.

Note :

• When you want to use DDNS function, you need to register an account in DDNS server first.

About

This page displays IP CamLocator information including Version, Copyright and Product Date information

Note :

• This computer procedure is protected of the right law and international convention. Making all or part which spread a procedure again without permission, may cause serious civil and criminal sanction and mention most severe telling in accordance with the law.

IP CamLo	cator		
	Network Ca	mera Configuration	LEVELON
🗖 Camera	A User About.		
	Version : 1.1.16	01 - 1920	
	Copyright 2008	leve!*	
	Jan 28 2008 - 18:32:02	one	
		0110	

How to Access to the Network Camera

This chapter introduces how to monitor the image from the camera using Microsoft web browser. The LevelOne video server and Network camera can be used with Microsoft web browsers and IP CamLocator in Windows operation systems. This section focuses on introducing camera web server. The recommended browser for Windows is Internet Explorer 6.0 or above.

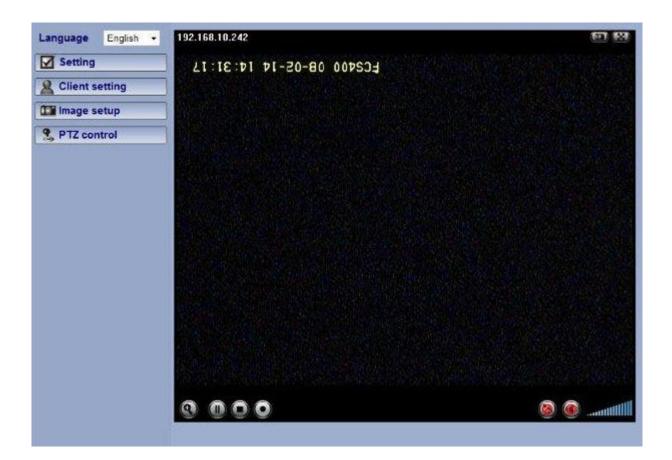
The functions of the camera should be set by the Administrator.

Initial accessing the network camera

Start your web browser, and enter the IP address or host name of the network camera of LevelOne in the Location / Address field of your browser. Use the default account "root" and default password which is the MAC address (in capital letters). After successful login, there would a screen appear for ActiveX. Click "**Install**" and proceed. Then the monitor image will be displayed in your browser.

Connect to 19	2.168.10.103	2 🛙
7		E X
User name:	🖸 root	~
Password:		••
	0	K Cancel
Internet Explorer - S	ecurity Warning	6
Contraction of the second seco	I this software? MideoWew.cab Igital Data Communication	ns Asia Co., Ltd.
More options		Instal Don't Instal
		his file type can potentially harm blishers you trust. <u>What's the risk?</u>

Configuration of Main Console



Language

You can click the pulldown box to select system language, including English, Traditional Chinese, German, Danish, Greek and Korean.

Setting

Setting

This function is only for the Administrator. Click this button to get into the Basic and Advance settings menu.

Client Setting

Mode: Click the pulldown box to choose between MPEG4 and MJPEG video compression mode.

Note : MJPEG streaming is unavailable if RTSP mode is ON.

View Size: Select the desired display image resolution to 640X480 or 320X240.

Protocol: Select the transferring protocol from TCP, UDP, HTTP and Multicast.

Video Buffer: Turn the Video Buffer function On/Off. The Video Buffer function makes the streaming more smoothly in unsteady network environment, but might cause a little delay in live viewing.

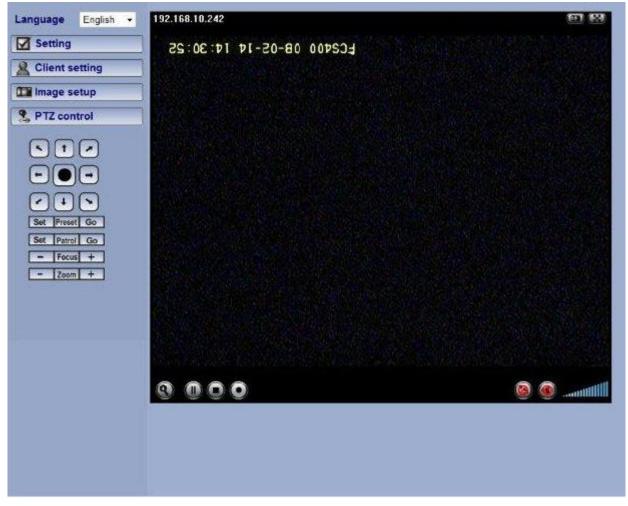


Image Setup

You can use the tool bar to optimize video brightness, contrast, and saturation.



Pan / Tilt control



Click the arrow button of the direction you want the IP camera to move.

Note: <u>This function is only for PTZ Cameras</u>. You can also Pan/Tilt cameras by left-clicking the main screen

Set Preset Go

Move the camera toward the preset direction.

Set Patrol Go

Before you start this function, you need to specify **Guard tour settings** in the **Setting Menu** under **Advance / Patrol** setting.

- Focus +

Adjust camera focus.

- Zoom +

You can use the tool bar to optimize video brightness, contrast, and saturation. You can also modify the **Picture** settings in the **Setting Menu** under **Basic Setting**.

Live View

Snapshot:

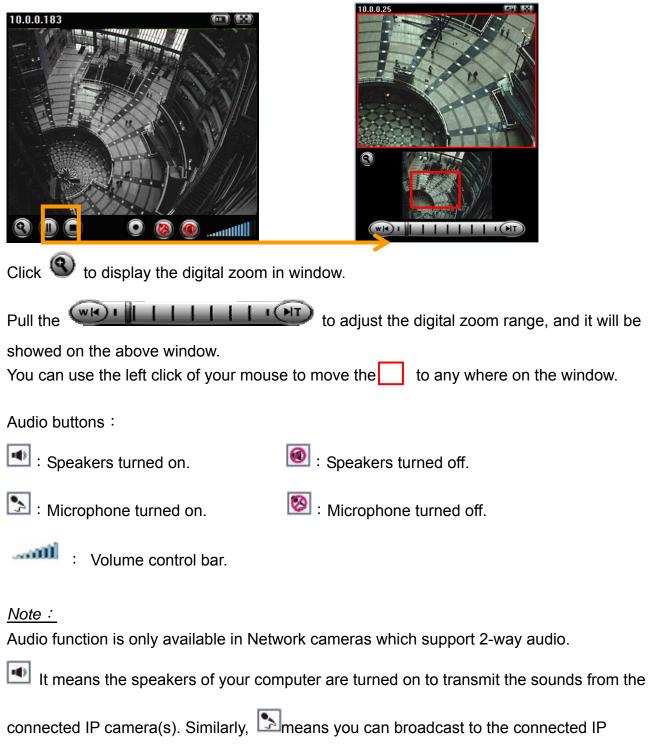
You can capture a still image shot by the camera and save it in your computer.

Press 🛄 , and a snapshot window will appear.

Click "Save" to save the picture in your computer.

Click "Close" to return to the view page.

Digital Zoom in / out the image via the monitor window



camera(s) via the Ethernet using your microphone.

Video play buttons:



Pause the current video

Play the video.



• Stop the current video.



• Record the current video.

Basic Setting

Click the "Basic" folder to display the sub folders, including System, Camera, Network, and Account.

System

Information

The Information page provides you with product factory information, including Product name, Firmware version, and Web version.

🕑 номе	Product name	FCS-1101 PoE IF	^o Camera	
SETTING	Firmware version	LM.1.6.16.00B1	Thu Jan 17 12:06:09 CST 2008	
BASIC	Web version	LM 1.6.16.00B1		
🕑 System				
Information				
Date/Time	k			
Initialize				
Camera Network				
Security				
Advance				

Day & Time

вноме	Current date/time	2008-02-13 11:20:26	
SETTING	PC clock	2008-02-13 11:20:25	
 BASIC System Information Date/Time 	 Date/time format Adjust 	yyyy-mm-dd hh:mm:ss ▼ ○ Keep current setting ○ Synchronize with PC ○ Manual setting	
Initialize Camera Network Security Advance		2008 v - 02 v - 13 v 11 v : 20 v : 17 v ⊙ Synchronize with NTP NTP server name pool.ntp.org v Auto	
	Time zone	Interval 1 Mours (GMT+08:00) Taipei	>

Current date & time : This displays the current date and time of the device.

PC clock : This displays the date and time of the monitoring PC clock.

Date & time format : Click the pulldown box to select among different time display formats, including yyyy-mm-dd hh:mm:ss (year-month-day hour:minute:second), mm-dd-yyyy hh:mm:ss (month-day-year hour:minute:second), and dd-mm-yyyy hh:mm:ss (day-month-year hour:minute:second).

Adjust : Select one of four time adjusting modes.

Keep current setting : Select this mode to keep the current date and time of the device.

Synchronize with PC : Select this mode to make the date and time of the device the same as the monitoring PC.

Manual setting : Select this mode to manually adjust the date & time of the device.

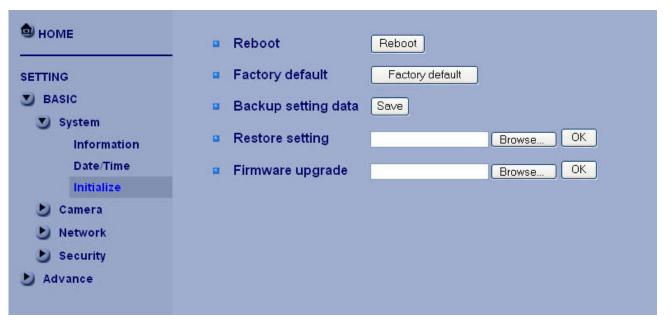
Synchronize with NTP : Specify the NTP server name and the Refresh Interval to synchronize the date and time of the device with those of the time server, known as the NTP (Network Time Protocol) server. *Note:*

• The NTP server (Network Time Protocol) is the time server which is an Internet standard protocol (built on top of TCP/IP) that assures accurate synchronization to the millisecond of computer clock times in a network of computers.

NTP server name : Type the host name or IP address of the NTP server, up to 64 characters.

Time zone : Select the time zone and time difference from Greenwich Mean Time in the area where the device is installed from the pulldown box.

Initialize



Reboot : Click this button to reboot the device. A confirmation dialogue will appear. Click OK to proceed. It takes about two minutes to reboot the device.

Factory default : Click this button to reset the device to the factory default settings. A confirmation dialogue will appear. Click OK to proceed, the network indicator on the device will start to blink. After completing adjustments to the default settings, the device will reboot automatically. Do not turn off the device until the device reboots.

Backup setting data : Save the setting data of the device to a file. Click Save, and follow the instructions on the browser to save the setting data file to your specified location.

Restore setting : Load the saved setting data of the device. Click Browse and select the file in which the setting data is stored. Click OK, and the device is adjusted according to the loaded data and restarted. Firmware update : Upgrade the device software. Click Browse and select the file for upgrading. A confirmation dialogue will appear. Click OK to start upgrading. The device will reboot upon completion. *Note:*

• Use only upgrade files that are special for this device. Problems may occur otherwise.

• Do not turn off the device power or disconnect the network until the upgrading is completed.

Camera

General

💩 номі	E	RTSP	⊙ On ⊙ Off
SETTING		Image rotate	None
1000	IC /stem amera		 On ● Off ● Text overlay ○ Privacy mask ○ Off White ▼
	General	Background color	
D Se	MPEG4 MJPEG etwork ecurity ance	Alias Date/Time Display position	 On ⊙ Off Top ○ Bottom OK Cancel

RTSP: Switch the RTSP streaming On/Off.

<u>Note</u> :

• RTSP: Real Time Streaming Protocol. RTSP is supported by most of the media clients . (RealPlayer, Media Player, QuickTime, etc...)

Deinterlace Filter : Switch the deinterlace filter on/off.

Overlay : Select to add Text Overlay or Privacy Mask on/off the display screen.

Text Overlay : Enables users to see some information on the display screen, including Date/Time and user-defined text. You can also change the background color.

Privacy Mask : Enables users to conceal an area of the video image.

MPEG4

Computer View

B HOME	MPEG4 viewer port Unicast streaming
SETTING BASIC System Camera General MPEG4 Computer view Mobile view MJPEG Network Security Advance	Video/Audio port number 8090 (1024 ~ 65534) Video/Audio port number(SSL) 8091 Image Size 704x480 * Frame rate 30 • fps Quality Auto Fixed quality Excellent • Fixed bitrate 2048 • kbps OK Cancel

MPEG4 viewer port (If RTSP mode is OFF)

Unicast streaming Video/Audio port number : Specify the transmission port number of the video data. It is initially set to 8090. Specify an even number from 1024 to 65534.

Image Size : Specify the image size the network camera transmits. You can choose among 704 × 480, 352 × 240 and 176 × 120 for NTSC mode and 704 × 576, 352 × 288 and 176 × 144 for PAL mode.

Frame rate : Set the frame rate of the MPEG4 image. Selectable values are 5, 10, 15, 20, 25, 30 fps. The unit "fps" stands for "frames sent per second".

Quality

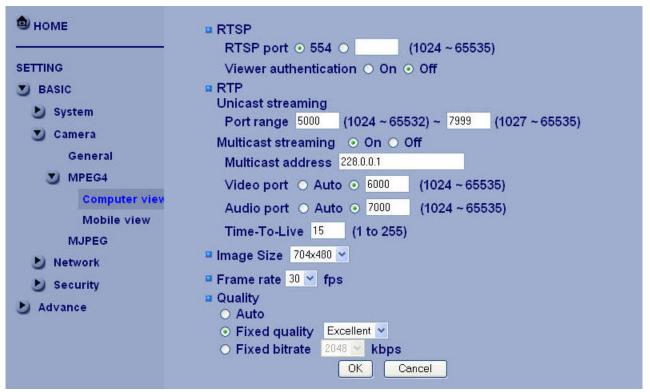
Auto : The quality and bitrate will be automatically decided according to the frame rate.

Fixed Quality : The selectable values are Medium, Standard, Good, Detailed and Excellent.

Fixed Bitrate : Set the bit rate of MPEG4 image transmission for a line. Selectable values are 64, 128, 256, 384, 512, 768, 1024, 1280, 1536 and 2048 kbps.

Note :

• The selected frame rate and bit rate are a tentative value. The actual frame rate and bit rate may be different according to the image size, the shooting scene or the network condition.



RTSP (If RTSP mode is ON)

RTSP port: Specify the transmission port number of RTSP streaming video. Default value is 554. Viewer authentication: If the viewer authentication is ON, users viewing through RTSP will be requested to key-in username and password.

RTP (If RTSP mode is ON)

Unicast streaming:

Unicast streaming Video/Audio port range: Specify the transmission port range of RTP streaming video. RTP will select a port randomly from the range.

Multicast streaming:

Multicast address: Specify the multicast server address.

Video / Audio Port: Specify the transmission port number of the video data. Specify an even number from 1024 to 65534.

Time-To-Live: Set the maximum TTL that multicast can pass through.

MPEG4 viewer port (If RTSP mode is OFF)

Unicast streaming Video/Audio port number : Specify the transmission port number of the video data. It is initially set to 8090. Specify an even number from 1024 to 65534.

Image Size : Specify the image size the network camera transmits. You can choose among 704 × 480, 352 × 240 and 176 × 120 for NTSC mode and 704 × 576, 352 × 288 and 176 × 144 for PAL mode.

Frame rate : Set the frame rate of the MPEG4 image. Selectable values are 5, 10, 15, 20, 25, 30 fps. The

unit "fps" stands for "frames sent per second".

Quality

Auto : The quality and bitrate will be automatically decided according to the frame rate.

Fixed Quality : The selectable values are Medium, Standard, Good, Detailed and Excellent.

Fixed Bitrate : Set the bit rate of MPEG4 image transmission for a line. Selectable values	are 64,	128, 2	256,
384, 512, 768, 1024, 1280, 1536 and 2048 kbps.			

Note :

• The selected frame rate and bit rate are a tentative value. The actual frame rate and bit rate may be different according to the image size, the shooting scene or the network condition.

Mobile View

вноме	RTSP
SETTING SETTING System Camera General MPEG4 Computer view Mobile view MJPEG Network Security Advance	 RTSP RTSP port ○ 554 ○ 8554 (1024 ~ 65535) RTP Unicast streaming Port range 9000 (1024 ~ 65532) ~ 11999 (1027 ~ 65535) Multicast streaming ○ On ○ Off Multicast address 226.0.1 Video port ○ Auto ○ 10000 (1024 ~ 65535) Audio port ○ Auto ○ 11000 (1024 ~ 65535) Time-To-Live 15 (1 to 255) Image Size 176×120 ♥ Frame rate 5 ♥ fps Quality ○ Auto ○ Fixed quality Excellent ♥ Fixed duality Excellent ♥ OK Cancel

RTSP (If RTSP mode is ON)

RTSP port: Specify the transmission port number of RTSP streaming video. Default value is 8554.

RTP (If RTSP mode is ON)

Unicast streaming:

Unicast streaming Video/Audio port range: Specify the transmission port range of RTP streaming video. RTP will select a port randomly from the range.

Multicast streaming:

Multicast address: Specify the multicast server address.

Video / Audio Port: Specify the transmission port number of the video data. It is initially set to 10000 and

11000. Specify an even number from 1024 to 65534.

Time-To-Live: Set the maximum TTL that multicast can pass through.

Image Size: The Image size of Mobile view is fixed at 176x120.

Frame rate : Set the frame rate of the MPEG4 image. Selectable values are 5, 10, 15, 20 fps. The unit "fps" stands for "frames sent per second".

Quality

Fixed Bitrate : Set the bit rate of MPEG4 image transmission for a line. Selectable values are 64, 32, and 16kbps..

MJPEG

вноме	MJPEG viewer port
SETTING BASIC System Camera General MPEG4 MJPEG	Unicast streaming Video/Audio port number 8070 (1024 ~ 65534) Video/Audio port number(SSL) 8071 Image Size 704×480 ♥ Frame rate 15 ♥ fps Quality Auto Fixed quality Excellent ♥
 Network Security Advance 	OK Cancel

Note :

• MJPEG settings are unavailable if the RTSP mode is ON, which means the MJPEG streaming is closed.

MJPEG viewer port

Unicast streaming Video/Audio port number : Specify the transmission port number of the video data. It is initially set to 8070. Specify an even number from 1024 to 65534. Note :

• Unicast streaming : Specify the transmission port number of the video data and audio data used when UDP (Unicast) is selected with the TCP/UDP transmission switching icon in the main viewer.

Image Size : Specify the image size the network camera transmits. You can choose among 704 × 480, 352 × 240 and 176 × 120 for NTSC mode and 704 × 576, 352 × 288 and 176 × 144 for PAL mode. Frame rate : Set the frame rate of the MJPEG image. Selectable values are 5, 10, 15 fps. The unit "fps" stands for "frames sent per second".

Quality

Auto: The quality will be automatically decided.

Fixed quality : The selectable values are Medium, Standard, Good, Detailed and Excellent.

Network

Information

вноме	MAC address	00:11:6B:73:06:39
SETTING	 Obtain an IP address 	automatically (DHCP)
S BASIC	O Use the following IP	address
ಶ System		
ಶ Camera		
Setwork		N
Information		
PPPoE	Obtain DNS server a	ddress automatically
DDNS	• Use the following DN	IS server address
UPnP	Primary DNS server	0.0.0.0
IP Notification	Sencodary DNS serv	ver 0.0.0.0
ಶ Security	- UTTP nort number	0.00.0
ಶ Advance	HTTP port number	● 80 ○ (1024 to 65535)
		DK Cancel

MAC address : Display the MAC address of the device.

Obtain an IP address automatically (DHCP) : If a DHCP server is installed on the network, to select this while the IP address is assigned by the DHCP server.

Note :

• When you set Obtain an IP address automatically (DHCP), make sure that the DHCP server is working on the network.

Use the following IP address : Select this when a fixed IP address is set.

IP address : Enter the IP address of the device.

Subnet mask : Enter the subnet mask.

Default gateway : Enter the default gateway.

Use the following DNS server address : Select this when you set the fixed address as the IP address of DNS server.

Primary DNS server : Enter the IP address of the primary DNS server.

Secondary DNS server : Enter the IP address of the secondary DNS server, if necessary.

HTTP port number : Select 80 in general situations. If you want to use a port number other than 80, select

the text box and enter a port number between 1024 and 65535.

Note :

• When you have set the HTTP port number to a number other than 80 on the Network setting page or in the Setup Program, access the device by typing the IP address of the device on the web browser as

follows:

Example: when HTTP port number is set to 2000 \rightarrow http://192.168.1.100:2000/

PPPoE

Use this when you connect the device through PPPoE (Point -to- Point Protocol over Ethernet). PPPoE connection is the protocol that is widely used in xDSL (digital affiliate line such as ADSL, VDSL or SDSL) as the authentication and connection system.

вноме	■ PPPoE ⊙ On ○ Off	
SETTING	IP address 0.0.0.0	
S BASIC	User ID	
ಶ System	Password	
🅑 Camera	Re-type password	
Network Information	O Obtain DNS server address automatically	
PPPoE	 Use the following DNS server address 	
DDNS	Primary DNS server 0.0.0.0	
UPnP IP Notification	Sencodary DNS server 0.0.0.0	
 Security Advance 	OK Cancel	

IP address : The IP address obtained at the PPPoE connecting with network.

User ID: Enter the user ID for authentication necessary for PPPoE connections. Type it up to 64 characters. Password : Enter the password for authentication necessary for PPPoE connections. Type it up to 32 characters.

Re-type password : Re-type the password to confirm.

Obtain DNS server address automatically : Select this to obtain the address of DNS server automatically. Use the following DNS server address : Select this when you set the fixed address as the IP address of DNS server.

Primary DNS server : Enter the IP address of the primary DNS server.

Secondary DNS server : Enter the IP address of the secondary DNS server.

DDNS

Номе	■ DDNS ⊙ On 〇 Off
SETTING BASIC System Camera Network Information PPPoE	Server name✓User IDPasswordRe-type passwordHost name
DDNS UPnP IP Notification Security Advance	OK Cancel

Server name : Choose the DDNS Server from the list.

User ID : Enter the user ID for authentication necessary for DDNS connections. Type it up to 64 characters.

Password : Enter the password for authentication necessary for DDNS connections. Type it up to 32 characters.

Re-type password : Re-type the password to confirm.

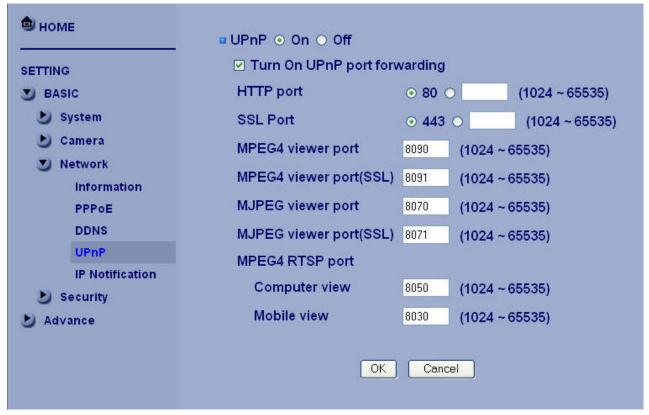
Host name : Enter the host name that is registered to the DDNS server.

Note :

• When you want to use DDNS function, you need to register an account in DDNS server first.

UPnP

The device includes support for UPnP, which is enabled by default. If also enabled on your computer, the device will automatically be detected and a new icon will be added to "My Network Places." It provides port forwarding for opening a port in a router or firewall in a private network in order to let a party from the outside world contact a user inside.



HTTP port : Enter the HTTP port number and default HTTP port is 80.

SSL port: Enter the SSL port number and default SSL port is 443.

MPEG4 viewer port : Enter the MPEG4 viewer port number and default MPEG4 viewer port is 8090.

MPEG4 viewer port(SSL): Enter the MPEG4 SSL viewer port and default is 8091.

MJPEG viewer port : Enter the MJPEG viewer port number and default MJPEG viewer port is 8070.

MJPEG viewer port(SSL): Enter the MPEG4 SSL viewer port and default is 8071.

MPEG4 RTSP port: Enter the MPEG4 RTSP port, default value is 8050 for computer view, 8030 for mobile view.

IP Notification

When network notify type is set to On, you can send an e-mail notification of the completion of the network setting.

HOME SETTING BASIC System Camera Network Information PPPoE DDNS UPnP	IP Notification ● On ● Off Notify type SMTP server name Authentication POP server name User name Password Recipient e-Mail address Administrator e-Mail address Subject	 DHCP □ Static IP □ PPPoE On ○ Off SMTP ☑ POP before SMTP 	
IP Notification Security Advance	Message	Product Name : <product> Web Version : <vweb> APP Version : <vfirm> http://<ip>:<port> OK Cancel Test</port></ip></vfirm></vweb></product>	Help

Notify type : Select type of DHCP, Static IP and PPPoE will notify.

SMTP server name : Type the SMTP server name up to 64 characters, or the IP address of the SMTP server.

Authentication : Select the authentication required when you send an email.

Off: Select if no authentication is necessary when an email is sent.

On: When authentication is necessary an e-mail is sent, select one of the authentication methods from the followings.

SMTP: Select if SMTP authentication is necessary when an e-mail is sent.

POP before SMTP: Select if POP before SMTP authentication is necessary when an e-mail is sent.

Note :

• When you set to On, be sure to select either or both SMTP or/and POP before SMTP.

POP server name : It is necessary when the POP before SMTP is selected in Authentication. Type the POP (receiving mail) server name up to 64 characters, or type the IP address of the POP server. This setting is necessary when the SMTP server which sends e-mails performs authentication using the POP user account.

User name, Password : Type the user name and Password of the user who has the mail account. This setting is necessary when the SMTP server which sends e-mails performs authentication.

Recipient e-mail address : Type the recipient e-Mail address up to 64 characters. You can specify up to three recipient E-mail addresses.

Administrator e-mail address : Type the Administrator e-Mail address up to 64 characters. This address is used for reply mail and sending system messages from the SMTP server.

Subject : Type the subject/title of the e-Mail up to 64 characters. With respect to mail which is sent according to the IP notification.

Message

Type the text of the E-mail up to 384 characters. Default value provides network information including IP, Port, MAC, Model, Firmware Version and Web Version.

Security

Account

The device default account and password setting is "root/MAC address of IP camera (in capital letters)". That means everyone might access the device including the configuration as long as the IP address is known. It is necessary to assign a password if the device is intended to be accessed by others. Use this menu to set the user names and passwords of Administrator and up to 9 different users (User 1 to User 9), and the access right of each user.

🕲 номе	User ID	User name	Password	Re-type Password	Viewer mode
SETTING	Administrator	root	•••••	•••••	Admin 👱
SASIC					
🕑 System	User 1				Admin 💌
🅑 Camera	User 2				Admin 💌
Network	User 3				Admin 🔽
🕑 Security	User 4				Admin 🔽
Account	User 5				Admin 🔽
HTTPS	User 6	-		1	Admin 😽
🕑 Advance	User 7				Admin 💌
	User 8				Admin 💌
	User 9				Admin 🔽

User name : Set a user name between 5 and 16 characters.

Password : Set a password between 5 and 16 characters.

Re-type password : Re-type the password to confirm.

Viewer Mode : Set a user to Admin, Operator or Viewer mode.

Viewer authentication : Allows any viewer direct access to Live View.

HTTPS

HTTPS is a URI scheme used to indicate a secure HTTP connection. It is syntactically identical to the http:// scheme normally used for accessing resources using HTTP. Using an https: URL indicates that HTTP is to be used, but with a different default TCP port (443) and an additional encryption/authentication layer between the HTTP and TCP. You can use the IP camera through HTTPS easily by using https:// instead of http://.

💩 номе	Create & Install	ned certificate		
SETTING BASIC	Installed Certifica Subject Name	ate		
System	No certificate installe			
🕑 Camera	Properties	Remove		
Network	HTTPS Connecti	on Policy		
🗾 Security	Administrator	НТТР	·	
Account	Operator	HTTP	<u> </u>	
a contraction of the second	Viewer	HTTP	· ``	
HTTPS	Set Policy			
Advance				

Create & Install: Create a self-signed certificate for HTTPS to recognize.

Installed Certificate: Display or remove the properties of the installed certificate.

HTTPS Connection Policy: Set HTTPS connection policy for different level of users.

Advance

PTZ Control

In this section, it provides Pan, Tilt, Zoom, Focus, Iris and Auto Pan speed control setting saved, as well as the Protocol, Baud rate and Address which depend on Speed Dome control module.

D HOME	Pan speed		- 50
	Tilt speed —		50
SETTING	Zoom speed		- 50
BASIC Advance	Pocus speed	<u>u</u> .	- 50
PTZ control	alris speed		- 50
Setting	Auto Pan speed	<u>u</u>	50
 Patrol FTP client SMTP HTTP event Schedule Alarm input Alarm buffer Motion detection System Log 	OK C	Cancel	

Setting

Pan speed : Use it to move bar from 0 to 100.
Tilt speed : Use it to move bar from 0 to 100.
Zoom speed : Use it to move bar from 0 to 100.
Focus speed : Use it to move bar from 0 to 100.
Iris speed : Use it to move bar from 0 to 100.
Auto Pan speed : Use it to move bar from 0 to 100.

Preset Position

In this section, up to 32 Pan / Tilt and Zoom positions can be saved, as well as the home position, which the camera faces to when the power is turned on.

HOME	Preset posi Set Rese		Delete All	
SETTING	Preset Po			
 BASIC Advance PTZ control Preset position 	Preset Go Home posit Home Pos	Empty -	Control Panel	
Setting	No Name		No Name	
D Patrol	1	Delete	17	Delete
FTP client	2	Delete	18	Delete
M SMTP	3	Delete	19	Delete
HTTP event	4	Delete	20	Delete
Schedule	5	Delete	21	Delete
	6	Delete	22	Delete
Alarm input	7	Delete	23	Delete
Alarm buffer	8	Delete	24	Delete
Motion detection	9	Delete	25	Delete
🎒 System Log	10	Delete	26	Delete
	11	Delete	27	Delete
	12	Delete	28	Delete
	13	Delete	29	Delete
	14	Delete	30	Delete
	15	Delete	31	Delete
	16	Delete	32	Delete

Setting

Set : Use it to save the camera position to a preset number.

Carry out the following steps.

- 1. Move the camera to the position to be saved while you are checking the image with the main console.
- 2. Write the preset position name in Preset Pos. Name text box.
- 3. Click the **SET**. The camera position is saved.
- 4. If want to set this position as home position, click Home option on. Click the **SET**. The camera position is saved as home position.

Note :

• Setting the new Home position will replace previous Home position.

Reset : When writing the preset position name in Preset Pos. Name text box, press **Reset** to clean filed words.

Delete All : Be careful! When pressing **Delete All**, all Preset Position information will be deleted.

Delete : Select a preset number from 1 to 32 in the list box. Use it to delete specific number

preset position setting.

Patrol

There are four patrol tours to set for composing different preset positions. Each one lists up to 8 positions which can be programmed, and the camera moves to the programmed positions sequentially. The camera stops when it moves to the last preset position.

B HOME	STour Name Guardtour1
	Tour Position
	Order - No Pos.exist - Set Clear Clear All
3 Advance	Set as default tour Tour Start
DIZ control	
Preset position	
Patrol	12.
Tour 1	3.
Tour 2	4.
Tour 3	5.
Tour 4	6.
FTP client	7
SMTP	8.
b HTTP event	
🕑 Schedule	OK Cancel
🕑 Alarm input	
Alarm buffer	
b Motion detection	
🕑 System Log	

General

Tour name : Rename the tour name.

Tour position

Order : There are 8 orders to select for camera directions.

Select Pos. : There are up to 32 preset positions to choose for each order.

Recall : When you click Recall, the camera moves to position of the selected preset number.

Clear: When setting specific preset number position to tour, click **Clear** to clear this direction information.

Clear All : Be careful! When you click Clear All, it will clear this tour all information out.

Set : Use it to save the camera position to a preset number.

Set as default tour : Click it on to set this tour as default.

Tour Start : To click Tour Start, and the camera moves on patrol tour.

Tour Stop : While the camera moves on patrol tour, click **Tour Stop** to stop the patrol tour. Carry out the following steps :

- 1. Click "Order" to choose one of eight orders.
- 2. Click **Select Pos.** to set the preset position.

- 3. Click the $\ensuremath{\text{SET}}.$ The tour position is saved.
- 4. Follow the steps to set the other orders.
- 5. Click the **OK** to save the tour.

FTP Client

Use this menu to set up for capturing and sending images to an FTP server. By using FTP client function, you can send the image and audio file which has been shot and recorded linked with the external sensor input or with the built-in motion detection function to FTP server. FTP client setting menu is composed of two tabs, General, Alarm sending and Periodical sending.

General

FTP client function : To activate the FTP client function, select On. The FTP client setting page appears. When you do not wish to use the FTP client function, select Off.

Note :

• The frame rate and operability on the main viewer may decrease while a file is being transmitted by the FTP client function.

FTP server name : Type the FTP server name to upload still images up to 64 characters, or the IP address of the FTP server.

User name : Type the user name for the FTP server.

Password : Type the password for the FTP server.

Retype password : To confirm the password, type the same characters as you typed in the Password box.

Passive mode: Set whether you use the passive mode of FTP server or not when connecting to FTP server.

Select On to connect to FTP server using the passive mode.

Attached file type : Set attached file type to MJPEG or MPEG.4

Alarm sending

Set to forward the image and audio file to the specified FTP server linked with the alarm detection by the external sensor input or by the built-in motion detection function. Select On to send the image and audio file to FTP server linked with the alarm detection.

🗐 номе	Alarm sending 💿	On O Off
SETTING	Remote path	
BASIC	Image file name	
🔰 Advance	Suffix	○ Date Time ⊙ Sequence number
S FTP client		Sequence number clear Clear
General	Alarm	Motion detection Motion detection
Alarm sending Periodical sendin SMTP		✓ Use alarm buffer Alarm buffer
 HTTP event Schedule Alarm buffer Motion detection System Log 	Effective Period	Always Schedule OK Cancel

Remote path : Type the path to the destination in FTP server up to 64 characters.

Image file name : Type the file name you want to assign to the images when sending to the FTP server. You can use up to 10 alphanumeric characters, - (hyphen) and _ (underscore) for naming.

Suffix : Select a suffix to add to the file name:

Date & time: The date & time suffix is added to the Image file name. The date/time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits), second (2 digits), and consecutive number (2 digits), thus 14-digit number is added to the file name.

Sequence number: A consecutive number of 10 digits between 000000001 and 4294967295 and two fixed digits 00 is added to the Image file name.

Motion Detection : Click it on for using Motion Detection function as a sensor. You can set the motion detection function page.

Note :

• Motion Detection works only when the Video mode is set to MPEG4 and the Cropping is set to Off. Alarm Buffer : Select Use alarm buffer when you forward the image/ audio of before and after the alarm detection (pre-alarm, post-alarm). If you do not select it, only the image of the moment of the alarm detection is forwarded. Click Alarm buffer to display the Alarm buffer setting menu. For details, see "Setting the Alarm Buffer — Alarm buffer setting Menu on page.

Effective period : Set the period when the periodical sending is effective.

Always : The periodical sending is always effective.

Schedule : You can specify the period when the periodical sending is effective in the schedule setting in the other section. Click Schedule and the setting menu for the effective period is displayed.

Periodical sending

You can set to send an image file to FTP server periodically by selecting On to send the image file to FTP server linked with setting period.

вноме	■ Periodical sending ⊙ On 〇 Off
SETTING	Remote path
BASIC	Image file name
У Advance	Suffix 🛛 🔿 None 🔿 Date Time 💿 Sequence number
SFTP client	Sequence number clear Clear
General	Interval 00 H 30 M
Alarm sending	
Periodical sendin	(MIN : 1min. MAX : 24-hour interval)
🕑 SMTP	Effective Period O Always
🕑 HTTP event	Schedule Schedule
ಶ Schedule	OK Cancel
🕑 Alarm buffer	
🕑 Motion detection	
ಶ System Log	

Remote path : Type the remote path up to 64 characters.

Image file name : Type the file name of the image sent to FTP server up to 10 alphanumeric characters, - (hyphen) and _ (under score).

Suffix : Select a suffix to be added to the file name sent to FTP server.

None : The name of the sent file will be the Image file name.

Date & time : The date & time suffix is added to the Image file name. The date & time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits) and second (2 digits), and consecutive number (2 digits), thus 14-digit number is added to the file name.

Sequence number : A consecutive number is added to the Image file name.

Sequence number clear : Click Clear and the suffix of the sequence number returns to 1.

Interval : Set the periodical sending is effective interval. Min value is 1 min and Max value is 24 hour.

Effective period : Set the period when the periodical sending is effective.

Always : The periodical sending is always effective.

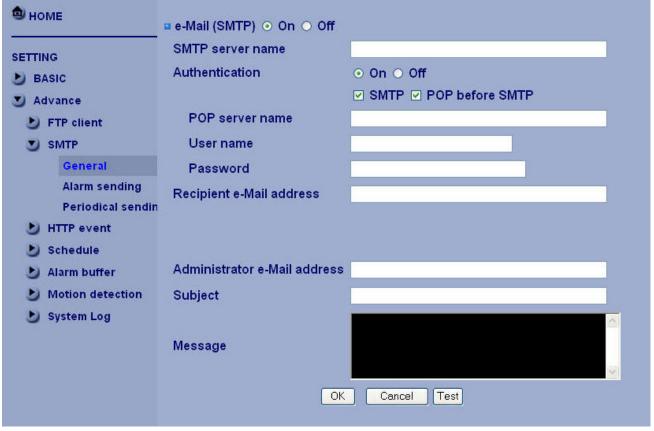
Schedule : You can specify the period when the periodical sending is effective in the schedule setting in the other section. Click Schedule and the setting menu for the effective period is displayed. ("Setting the Schedule — Schedule setting Menu" on page 34)

SMTP

Set the SMTP menu when you want to send an image via e-mail. By using Mail (SMTP) function, you can send a mail with attached image which has been shot linked with the external sensor input or with the built-in motion detection function. The image file can also be sent periodically. E-Mail (SMTP) setting menu is composed of three tabs, General, Alarm sending and Periodical sending.

General

Select On when you use the SMTP function. The common setting options are displayed below. If you do not wish to use the e-Mail (SMTP) function, select Off and click OK.



Note :

• During transmission of an image file via mail, the frame rate and operation performance of the monitor image of the main viewer decline.

• While the camera video mode is set to MPEG4, the image of the composite video signal output from the video output connector of the camera may be distorted during mail transmission.

• You cannot send an audio file by using the mail sending function.

SMTP server name : Type the SMTP server name up to 64 characters, or the IP address of the SMTP server.

Authentication : Select the authentication required when you send an email.

Off: Select if no authentication is necessary when an email is sent.

On: When authentication is necessary an e-mail is sent, select one of the authentication methods from the

followings.

SMTP: Select if SMTP authentication is necessary when an e-mail is sent.

POP before SMTP: Select if POP before SMTP authentication is necessary when an e-mail is sent. *Note :*

• When you set to On, be sure to select either or both SMTP or/and POP before SMTP.

POP server name : It is necessary when the POP before SMTP is selected in Authentication. Type the POP (receiving mail) server name up to 64 characters, or type the IP address of the POP server. This setting is necessary when the SMTP server which sends e-mails performs authentication using the POP user account.

User name, Password : Type the user name and Password of the user who has the mail account. This setting is necessary when the SMTP server which sends e-mails performs authentication.

Recipient e-mail address : Type the recipient e-Mail address up to 64 characters. You can specify up to three recipient E-mail addresses.

Administrator e-mail address : Type the Administrator e-Mail address up to 64 characters. This address is used for reply mail and sending system messages from the SMTP server.

Attached File Type: Select to attach the file as JPEG or MPEG4.

Subject : Type the subject/title of the e-Mail up to 64 characters. With respect to mail which is sent according to the alarm detection when Alarm sending of the alarm tab is set to On, the characters standing for the sensor type added to the subject.

Message : Type the text of the E-mail up to 384 characters. (A line break is equivalent to 2 characters.)

Alarm sending

Set to send the mail with connection to the alarm detection by the external sensor input or by the built-in motion detection function.

вноме	■ Alarm sending ⊙ On 〇 Off					
SETTING	File attachment 💿 On 🔿 Off					
D BASIC	Image file name					
🕑 Advance	Suffix 🛛 🔿 None 🔿 Date Time 💿 Sequence number					
🕑 FTP client	Sequence number clear					
SMTP	Alarm Motion detection Motion detection					
General Alarm sending	Use alarm buffer Alarm buffer					
Periodical sendir						
🕑 HTTP event	Effective Period 💿 Always					
🕑 Schedule	 Schedule 					
🄰 Alarm buffer	OK Cancel					
Motion detection						
🕑 System Log						

Alarm sending : Select On to set to send mail with connection to the alarm detection.

File attachment : Set whether an image file is attached to the mail sent or not. When On is selected, the image file made by the settings below is attached. When Off is selected, only the message is sent. Image file name : Type the file name you want to assign to the image to attach a mail. You can use up to 10 alphanumeric, - (hyphen) and _ (underscore) for naming.

Suffix : Select a suffix to add to the file name:

None: No suffix is added. The Image file name is assigned to the image to be sent via an e-Mail. Date & time: The date & time suffix is added to the Image file name. The date/time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits), second (2 digits), and consecutive number (2 digits), thus 14-digit number is added to the file name.

Sequence number: A consecutive number of 10 digits between 0000000001 and 4294967295 and two fixed digits 00 is added to the Image file name.

Motion Detection : Click it on for using Motion Detection function as a sensor. You can set the motion detection function page.

Note :

• Motion Detection works only when the Video mode is set to MPEG4 and the Cropping is set to Off. Alarm Buffer : Select Use alarm buffer when you forward the image/ audio of before and after the alarm detection (pre-alarm, post-alarm). If you do not select it, only the image of the moment of the alarm detection is forwarded. Click Alarm buffer to display the Alarm buffer setting menu. For details, see "Setting the Alarm Buffer — Alarm buffer setting Menu on page.

Periodical sending

You can set to send an image file by SMTP server periodically by selecting On to send the image file by SMTP server linked with setting period.

🕏 номе		Periodic	al sending	j 💿 On 🔿 Ol	ff	
SETTING		lmage fil	e name			
BASIC		Suffix	○ None	O Date Time	e 💿 Sequen	ice number
🕑 Advance				Sequen	ce number o	lear Clear
🕑 FTP cl	lient	Interval		00 H	30 M	
SMTP				(MIN : 30min	. MAX : 24-1	nour interva
	neral rm sending	Effective	Period	○ Always		
Per	iodical sendin			Schedule	e Schi	edule
🕑 НТТР	event		(OK Can	cel	
🅑 Sched	lule					
🕑 Alarm	buffer					
🕑 Motio	n detection					
🕑 Syster	m Log					

Image file name : Type the file name of the image sent by SMTP up to 10 alphanumeric characters, - (hyphen) and _ (under score).

Suffix : Select a suffix to be added to the file name sent by SMTP.

None : The name of the sent file will be the Image file name.

Date & time : The date & time suffix is added to the Image file name. The date & time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits) and second (2 digits), and consecutive number (2 digits), thus 14-digit number is added to the file name.

Sequence number : A consecutive number is added to the Image file name.

Sequence number clear : Click Clear and the suffix of the sequence number returns to 1.

Interval : Set the periodical sending is effective interval. Min value is 30 min and Max value is 24 hour. Effective period : Set the period when the periodical sending is effective.

Always : The periodical sending is always effective.

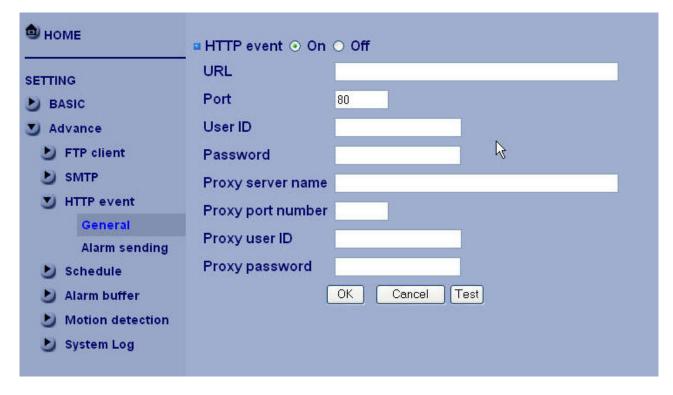
Schedule : You can specify the period when the periodical sending is effective in the schedule setting in the other section. Click Schedule and the setting menu for the effective period is displayed. ("Setting the Schedule — Schedule setting Menu" on page 34)

HTTP Event

Use this menu to set up for capturing and sending images to an HTTP server. By using HTTP client function, you can send the image and audio file which has been shot and recorded linked with the external

sensor input or with the built-in motion detection function to HTTP server. HTTP client setting menu is composed of two tabs, General and Alarm sending.

General



HTTP event: Set up the HTTP server URL, port, user id, password, and proxy server settings.

Alarm sending

Set to send the mail with connection to the alarm detection by the external sensor input or by the built-in motion detection function.

	■ Alarm sending				
SETTING BASIC Advance FTP client SMTP HTTP event General Alarm sending Schedule Alarm buffer Motion detection System Log	Alarm Effective Period	>	Motion detection Parameter Message Use alarm buffer Parameter Message Always	Motion detection Alarm buffer	

Alarm sending : Select On to set to send mail with connection to the alarm detection.

Motion Detection : Click it on for using Motion Detection function as a sensor. You can set the motion detection function page.

Note :

• Motion Detection works only when the Video mode is set to MPEG4 and the Cropping is set to Off. Alarm Buffer : Select Use alarm buffer when you forward the image/ audio of before and after the alarm detection (pre-alarm, post-alarm). If you do not select it, only the image of the moment of the alarm detection is forwarded. Click Alarm buffer to display the Alarm buffer setting menu. For details, see "Setting the Alarm Buffer — Alarm buffer setting Menu on page.

Effective period : Set the period when the periodical sending is effective.

Always : The periodical sending is always effective.

Schedule : You can specify the period when the periodical sending is effective in the schedule setting in the other section. Click Schedule and the setting menu for the effective period is displayed.

Schedule

When you click Schedule on the Advanced mode menu, the Schedule setting menu appears. This is the same menu as the setting menu which is displayed when you click Schedule to set Effective period and Schedule in FTP client setting menu, e-Mail (SMTP) setting menu, Alarm out setting menu and so on. Example: When setting e-Mail (SMTP) (the alarm sending) in the Schedule setting menu.

D HOME	Schedule selection FTP-Alarm			
	☐ Mon Start time 00 : 00 - End time 24 : 00			
SETTING	□ Tue Start time 00 : 00 - End time 24 : 00			
BASIC	Wed Start time 00 : 00 - End time 24 : 00			
У Advance	Thu Start time 00 : 00 - End time 24 : 00			
ETP client	🗖 Fri Start time 🛛 : 🗤 - End time 24 : 🗤			
SMTP	□ Sat Start time 00 : 00 - End time 24 : 00			
HTTP event Schedule	□ Sun Start time 00 : 00 - End time 24 : 00			
Setting	Use the same time schedule every day.			
🕑 Alarm buffer	OK Cancel			
🄰 Motion detection				
🅑 System Log				

Setting

Schedule selection

Select the list box to specify the schedule you want to set. e-Mail (SMTP) – Alarm, e-Mail (SMTP) –

Periodical, FTP – Alarm, FTP – Periodical, HTTP event – Alarm, Alarm output – Alarm or Alarm output –

Timer, can be selected.

Mon (Monday) to Sun (Sunday)

The time period on the right of the checked day is the effective period of the schedule.

Start time, End time

Specify the Start time and the End time.

Use the same time schedule every day

When this is checked, the Start time and End time set to Mon (Monday) are applied to all days. In this case, the Start time and End time of the other days than Mon (Monday) cannot be input.

Alarm Input

When you click **Alarm Input** on the Advance mode menu, the Alarm output setting menu appears. You can set in this menu to control the external alarm input of I/O port on the rear of the camera linked to FTP and SMTP sending function.

Note : This function is only for Cameras which support digital input/output.

D HOME	Alarm input	
	Sensor input 1	
SETTING		
BASIC	Camera move No Pos. ex	xist 👻
T Advance	Sensor input 2	
D PTZ control		
Preset position	Camera move No Post ex	xist -
D Patrol	Sensor input 3	
> FTP client	Camera move No Post ex	vict -
SMTP	Sensor input 4	A121. C
b) HTTP event	e control niper e	
5 Schedule	Camera move No Poster	xost -
3 Alarm input	OK Cancel	
Setting		
Alarm buffer		
Motion detection		
🕑 System Log		

Setting

Sensor input 1 : Click it on for using external sensor which is connected to sensor input1 of the camera I/O port. Select position for moving toward preset position when sensor input 1 be triggered.

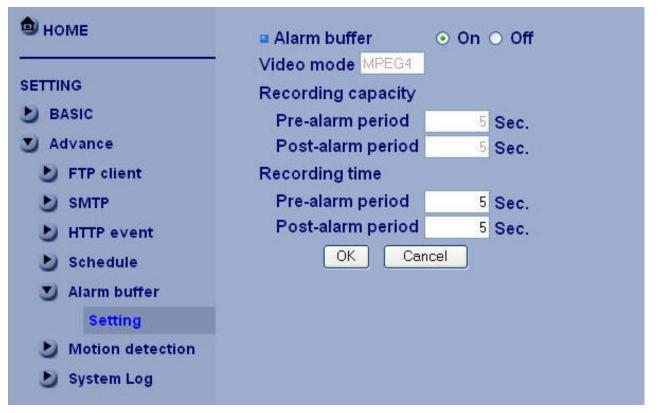
Sensor input 2 : Click it on for using external sensor which is connected to sensor input2 of the camera I/O port. Select position for moving toward preset position when sensor input 2 be triggered.

Sensor input 3 : Click it on for using external sensor which is connected to sensor input3 of the camera I/O port. Select position for moving toward preset position when sensor input 3 be triggered.

Sensor input 4 : Click it on for using external sensor which is connected to sensor input4 of the camera I/O port. Select position for moving toward preset position when sensor input 4 be triggered.

Alarm Buffer

You can set the Pre-alarm image and audio (the image and audio before the alarm detection) and the Post - alarm image and audio. These can be set when Alarm sending FTP client setting menu or Image memory setting menu is set to On, and besides when Use alarm buffer is selected.



Setting

Alarm buffer: To activate the Alarm buffer function, select On. The basic setting options are displayed below. When you do not use the Alarm output function, select Off.

Recording capacity

Pre-alarm period : Display the maximum recording capacity of image/audio before the alarm detection.

Post-alarm period : Display the maximum recording capacity of image/audio after the alarm detection.

Recording time

Set the recording time for the Pre-alarm image/audio and Post alarm image/audio.

Pre alarm period : Type it with recording time of the image/audio before the alarm detection.

Post alarm period : Type it with recording time of the image/audio after the alarm detection.

Note :

• The value of Recording capacity differs depending on Image size, Bitrate (for MPEG4) and Image quality (for MPEG4 and MJPEG) in the camera setting menu.

Motion Detection

When you click Motion Detection on the Advance mode menu, the Motion Detection setting menu appears. There are three Motion Detection functions as sensors to set for different detecting zones. Each one has Threshold and Sensitivity inputs which you can adjust to specific zone sequentially. Motion Detection function can support to FTP, SMTP and Alarm output for capturing and sending images or starting alarm output.



Click it On when you use the Motion Detection function and detecting zone appears for adjusting and moving. The common setting options are displayed below. If you do not wish to use the Motion Detection function, click it Off and press OK.

Motion Detection 1 : Click it on for using Motion Detection 1 function as a sensor. You can adjust and move the detecting zone by using mouse.

Motion Detection 2 : Click it on for using Motion Detection 2 function as a sensor. You can adjust and move the detecting zone by using mouse.

Motion Detection 3 : Click it on for using Motion Detection 3 function as a sensor. You can adjust and move the detecting zone by using mouse.

Threshold : You can use the tool bar to set up-limit value. When detecting zone signals are over setting value, it would carry on assigned work.

Sensitivity : You can use the tool bar to set down-limit value. When detecting zone signals are over setting value, it would carry on assigned work.

Carry out the following steps :

Click On to Motion Detection 1 choose one of eight orders.

A detecting zone 1 appears and use mouse to adjust and move the zone boundaries and position.

Use tool bar to set Threshold and Sensitivity value.

Follow the steps to set the other Motion Detection.

Click the OK to save the setting.

Note :

• Be careful! Motion Detection function don't work with Patrol function at same time.

System Log

The System Log function allows users to review any changes and events happened. The system starts logging automatically after started.

D HOME Remote Log Enable remote log SETTING Server name BASIC Server Port 💿 514 🔿 $(1024 \sim 65535)$ Advance OK Cancel FTP client SMTP Current Log HTTP event Jan 1 00:00:10 <info > SYS: log started Schedule Feb 13 10:54:32 <info > NET: Starting network.. Feb 13 10:54:32 <info > NET: MAC = 00:11:6B:73:06:39 Alarm buffer Feb 13 10:54:32 <info > NET: Network type = DHCP Feb 13 10:54:33 <info > ALARM: Alarm Buffer Event Receive Motion detection Feb 13 10:54:33 <info > WDT: watchdog start System Log Feb 13 10:59:45 <info > RTSP: TCP from 192.168.50.157 > RTSP: TCP from 192.168.50.142 Feb 13 11:16:11 <info Setting > RTSP: Close from 192.168.50.142 Feb 13 11:18:50 <info Feb 13 11:19:02 <info > RTSP: TCP from 192.168.50.142 Feb 13 11:19:40 <info > RTSP: Close from 192.168.50.142 Feb 13 11:21:12 <info > RTSP: TCP from 192.168.50.142 Feb 13 11:21:28 <info > RTSP: Close from 192.168.50.142 Feb 13 11:21:53 <info > RTSP: TCP from 192.168.50.142 Feb 13 11:22:10 <info > RTSP: Close from 192.168.50.142 Feb 13 11:23:26 <info > RTSP: Close from 192.168.50.157 Feb 13 11:23:26 <info > Video: MPEG4 - Close Connection from 192.168.50.157 Feb 13 11:23:32 <info > Video: MPEG4 - New Connection from 192.168.50.157 Feb 13 11:30:53 <info > Video: MPEG4 - New Connection from 192.168.50.142 Feb 13 11:31:20 <info > Video: MPEG4 - Close Connection from 192.168.50.142

Remote Log: Enables user to send the log data to a specified log server.

Trouble shooting sheet

Troubles	Probable Reasons	Solutions	
	Wrong power cable connection.	Reverse.	
	The power adapter broken.	Change.	
No action while power on.	Fuse broken.	Change.	
No image. The indicator isn't flashing.	Power cable is not in well connection.	Reconnected.	
	Firmware is hang up.	Start up with factory default setting by pressing the reset button over 5 seconds then releasing it.	
	The camera ID address is incorrect.	Recheck the sip switch	
Having image but can't control.	Protocol is incorrect.	Recheck the dip switch	
Control. The indicator isn't flashing.	Firmware is hang up.	Restart the IP Speed dome by pressing and releasing the reset button.	
Unstable images	Poor video cable connection	Reinsert	
	Power W is not enough	Change	
Vague images	The focus is on manual operation.	Change into auto mode	
	The smoked cover is dirty.	Clean up the cover	

Restoring the factory defaults will erase any previous settings. Reset or restore the system after power on.

Technical Parameters

Model	FCS-4000/4300	FCS-4100/4400	FCS-4200/4500		
Compression	MJEG/MPEG4				
Mode					
Max.		704x480 pixels(NTSC)			
Resolution		704x576 pixels(PAL)			
		160x120: 30/25fps			
Frame Rate	320x240: 30/25fps				
	704x480: 30/25fps				
Sensor	1/4" Exview HAD CCD				
Lens	4.0~72mm/F1.4~3.0	3.5~91mm/F1.6~3.8	3.4~122.4mm/F1.6~4.5		
Minimum					
Illumination	0.7Lux/F1.4	1.0Lux/F1.6	0.1Lux/F1.6		
Shutter (sec)	1/1~1/10,000				
Audio Codec	G.711 PCM 64 kbit/s, ADPCM 32 kbit/s, MP3, MPEG4-AAC full duplex				
Pan	360° continuous				
Tilt	90°				
DI/DO	4 in / 1out				
Flash ROM	8MB				
SDRAM	32MB				
Zoom	Optical: 18x	Optical: 26x	Optical: 36x		
	Digital: 12x	Digital: 12x	Digital: 12x		
Power Supply	DC 12V [,] ± 5%				
Temperatures	0°C ~ + 50°C				
Humidity	≤ 95% non-condensing				

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