

# **Dual Mode CCD Dome Internet Camera**

ICA-510

User's Manual

Version 3.0

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# 1. Introduction

Simultaneously providing MPEG-4 and M-JPEG video streaming, the PLANET ICA-510 is a Dual Mode CCD Dome Internet Camera which uses high resolution of 1/3-inch CCD sensor for capturing color images. Equipped with network and analog video output interfaces make the ICA-510 a flexible viewing and recording implementation.

Compliant with IEEE 802.3af PoE (Power over Ethernet), the ICA-510 offers the benefit of easy deployment to users to install camera without concerning for power outlet located. The 2-Way audio feature directly makes audio communication between local and remote side by adding external microphone and speaker. Besides web browsers, it also provides 3GPP capability that can remotely view the live video via a 3G mobile phone.

The ICA-510 supports the professional management software, PLANET Cam Viewer, which is a multi-camera video surveillance application, and it can handle the ICA-510 to provide monitoring, recording and event management functions. The Cam Viewer offers you to setup a comprehensive and effective surveillance system quickly and easily. There are so many features to make PLANET ICA-510 be the most cost efficient IP camera for multiplex occasions that could express video and audio from everywhere at anytime over the Internet. It can provide a real professional security environment to protect your property and life.

# **1.1 Package Contents**

Please inspect your package. The following items should be included in the package:

- 1 x ICA-510
- 1 x Power Adapter
- 1 x Mounting Screws
- 1 x CD
- 1 x Quick Installation Guide

# **1.2 System Requirements**

Network Interface	10/100Base-TX Ethernet
Monitoring System	Recommended for Internet Explorer 6.0 or above
System Hardware	· CPU: Pentium 4, 1.5GHz or above
	· Memory Size : 512 MB or above
	· VGA card resolution : 1024 x 768 or above
	Optional:
	· Sound Card (for PC)
	· Microphone (for PC and ICA-510)
	· Speaker (for PC and ICA-510)

# **1.3 Features**

- Simultaneous MPEG-4 and M-JPEG dual codec
- Supports 2-Way audio
- > 3GPP for 3G mobile remote application
- Provides 3 motion detection area
- > FTP / SMTP alarm by motion detection
- > Up to 30 fps in Full D1 resolution
- Supports analog video output
- IEEE 802.3af Power over Ethernet compliant
- UPnP for fast and easy installation
- > Cam Viewer Central management software supported



# **Remote Monitoring Applications**

# 1.5 Outlook



### 1.5.1 Connectors



Connector	Description
AUDIO OUT	An external speaker can be plugged in.
AUDIO IN	An external microphone can be plugged in.
	Connect the supplied power adapter.
PWR	When this device is obtained power from PoE, you don't have to attach
	the power adapter.
Video OUT	Analog video output.
	Connect your Camera to a 10/100Base-TX hub or switch. It is compliant
LAN (PUE)	with IEEE 802.3af PoE. Either mid-span PSE or end-span PSE supported.

Video	
Image Sensor	1/3" SHARP CCD
Horizontal Resolution	420 TVL
Lens	6 mm, F1.8 fixed board
Illuminator	0.1 Lux
Video Codec	MPEG-4 / M-JPEG
Video Resolution	Up to 30 fps @ 704x480 ; 352x240 ; 176x120
Image Control	AWB, AEC, AGC
Audio	
Audio Codec	G.726 ADPCM, 64Kbps
Interfaces	
LAN	1 x RJ-45, 10/100Base-TX, IEEE 802.3af
VIDEO	1 x BNC
	1 x Audio In
AUDIO	1 x Audio Out
Network	
Drotocolo	TCP/IP, DHCP, PPPoE, ARP, ICMP, FTP, SMTP, DNS, DDNS,
FICIOCOIS	NTP, UPnP, RTSP, RTP, HTTP, TCP, UDP
Management	
Client	Web browser / Cam Viewer software
Security	Username and password authentication
	Motion detection (3 areas definable)
Alarm and Event	Triggered and scheduled events
	Pre and post alarm buffer
Environment	
Power Requirement	12V DC, 1.0A
Dimensions (Η xΦ)	70 x 110 mm
Weight	400 g
Operating Temperature	0 ~ 50 Degree C
Emission	CE, FCC

# 2. Installation

The followings are instructions for setting up the IP camera. Refer to the illustration and follow the simple steps to quickly install.

# **2.1 Physical Installation**

1. Hold the base and rotate the cover to open this camera.



2. Use the provided screws to mount the camera on the ceiling.



3. Attach the provided power adapter to the camera's power connector. If there is a PoE switch/hub existing, you can connect the camera's LAN port to your PoE switch/hub to power up. If this camera is obtained power from PoE, you don't have to attach the power adapter.

#### Note:

Please use the bundle power adapter that in package. Using a power supply with a different voltage rating will damage and void the warranty for this product.

4. Set camera face to the location you want, and you can connect the Video Out connector to a monitor then turn the lens to adjust focus.



5. When the position and focus adjustment done, rotate the housing back to the main base and then turn the hemisphere cover to the proper direction.



6. Connect camera's LAN port to your network device, if it is not power up from PoE switch/hub.

- 1. Insert the bundled product CD into CD-ROM drive to launch the autorun program.
- 2. When the web page displayed, please click your IP camera model name to next page, select and click the "**Setup Tool**" hyperlink on the menu to start the installation process.

#### Note:

If the CD's menu does not appear, click "Start" on the task bar and select "Run" to type "X:\Utility\SetupTool\SetupTool.exe", assume X is your CD-ROM drive.

3. Click "**Yes**" to start the Setup Tool Installation.

Setup Tool Installation	$\mathbf{X}$
This will install Setup Tool to your computer. Do you want to continue?	
Yes No	

4. Choose the language you need, and click "Next" to continue.



5. Follow the step for configuring the Setup Tool, and click "Next" to continue.



6. If you wish to install the Setup Tool in an alternative location, click "**Browse**"; otherwise click "**Next**" to continue.

Setup Tool Installation		
Select destination directory Setup Tool will be installed to	the directory shown below.	
	To install to a different directory, either type in a new path or click Bro a destination directory. ("Setug Tool" is automatically added.) C:\Program Files\PLANET\Setup Tool	wse to browse for Browse
	<mark>≺ <u>B</u>ack Next ≻</mark>	<u>C</u> ancel

7. If you wish to install the Setup Tool in an alternative folder of star menu, type a new folder or select one of the exiting ones; otherwise click "**Next**" to continue.



8. Check the installation summary, and click "Install" to install the Setup Tool.



9. The program starts to install the Setup Tool in your computer.



10. The Setup Tool installation successful. Click "Finish" to complete the installation.

Setup Tool Installation		
Finished Setup Tool installation successfi	al.	
	✓ Launch Program File Click Finish to end the installation.	
	K Back Finish	Cancel

This section shows how to perform basic communication functions by Setup Tool.

1. Double click the icon of Setup Tool on the desktop.



2. The Setup Tool screen will show up as below. It will automatically search and list the IP cameras on your network.



3. Select the IP camera you want, and then click the "Setup" button on the right side. The administrator login window will pop up. If the Administrator Name and Administrator Password have been set, you will be prompted to enter them. If using the default values, please enter "admin" for both name and password. Click "OK" to continue.

	IP Address	MAC Address	Mod. Name	Mod. ID	4	Setun
work Camera	192.168.0.20	00304F257F38	Dual Mode CCD Dome Internet	Ca ICA-510	_	oorop
					8	Jpgrade
		Dual Mode CCD D	nome Internet Camera (192,168,0.2		👯 Fac	tory defau
			~	°' @	U	Reboot
		User name	admin			
		Password	*****			
			ОК	Cancel		
rch 🚺 🚺	🥌 Link to IE					

4. On the following System information screen, it displays the Product Name, Firmware Version and Hardware Version. Click on "**Next**" to continue.

riodactivanie.	Dual Mode CCD Dome Internet Camera	
Firmware Version :	LM.1.6.15.003_SQA	Next Next
		Convel
		Cancel

5. On the following Account settings screen, you can configure some accounts as Admin, Operator or Viewer. Click "**Next**" to continue.

	Username	Password	Confirm	Mode	TTEMOUS
\dministrator	admin	*****	*****	Admin 👻	Next
User 1				Admin 💌	1100
User 2				Admin 💌	
User 3				Admin 💌	🗶 Cancel
User 4				Admin 💌	
User 5				Admin 💌	
User 6				Admin 💌	
User 7				Admin 💌	
User 8				Admin 💌	
User 9				Admin 💌	
Viewe	r authentication	⊙ On C Off	ſ		
ā.					
hange the aut	thentication accour	it, type the new accou	nt and password ar	id select security mode in	

6. On the following Date/Time settings screen, you can adjust the date and time as synchronize with PC, manual setting or synchronize with NTP server. Click "**Next**" to continue.

Current Setting :	2007/11/26 💌	16:52:41	<u> </u>			_	
PC clock :	2007/11/26	16:52:29	<u> </u>				Next
Adjust:	C Keep current setting						
	C Synchronize with PC					32	Cancel
	O Manual setting :					-	Cancer
	2004/ 1/ 1	00:00:0	0	*			
	<ul> <li>Synchronize with NTP :</li> </ul>						
	NTP server name :		pool.ntp.o	rg	Auto		
			, Interval	01 💌	hours.		
Time zone :	(GMT+08:00) Taipei				•		
						-	
e are three ways to a	adjust system date and time.	The easiest	way is to mak	ke Network C	amera		

7. On the following Network settings screen, you can configure the device HTTP port, IP address, subnet mask, default gateway and DNS. If you use PPPoE, please use DHCP for both IP address and DNS settings. Click "**Next**" to continue.

tp Port : 💿 Port 80 🔿 others 🛛	80 (1024 - 65536)	Previous
AC Address : 00:30:4F:25:7F:38		Next
P Address	DNS Setting	
Obtain IP automatically (DHCP)	Obtain DNS server automatically	X Cancel
C Use the following IP	C Use the following DNS server	
IP Address : 10 . 0 . 40	Primary DNS : 0 . 0 . 0	
Subnet mask : 255,255,255,0	Secondary DNS : 0 0 0	
Default Gateway : 10 0 1		
		_
can change the device HTTP port, IP address,	subnet mask, default getway, primary DNS, and	

8. On the following PPPoE settings screen, if you want to use PPPoE for connection, please select "**On**" to fill the correct User ID and Password for dialling. Click "**Next**" to continue.

IP Address 0 0 0 0	DNS Setting	Next
	Obtain DNS server automatically	
User ID : qmik3	Use the following DNS server	
Password : *****	Primary DNS : 0 . 0 . 0	X Cancel
Confirm :	Secondary DNS : 0 . 0 . 0	

9. On the following DDNS settings screen, if you have registered the account from the DDNS provider and want to use DDNS function, please select "**On**" to fill the correct User ID, Password and Hostname for connecting. Click "**Next**" to continue.

DDNS O On	© Off	Previous
Server Name	· ·	🗢 Next
UserID	:	
Password	:	X Cancel
Confirm		
Hostname		
ase input correct Dynai	nic DNS settings include login user ID, password, and registered DDNS	

10. On the following Apply settings screen, please make sure all settings are correct and valid. Click "**Apply**" to finish, or click "**Previous**" to change settings.

		Previous
		Apply
	device. Or click Previous to modify changes.	
		X Cancel
	Reboot system to apply new (network) settings.	
Hint		
Make sure all s	ettings are correct and valid.	

After modifications, you may now connect the camera with new settings via web browser.

# 3. Viewing Live Video

This chapter introduces how to monitor the image from the IP camera by using Microsoft web browser. The recommended browser for Windows is Internet Explorer 6.0.

### 3.1 Connecting ICA-510 via Ethernet

After finishing the Setup Tool, you can access the IP camera by using the browser.

- 1. Start the Web browser.
- 2. In the Address box, please enter "http://address". The "address" is the LAN IP address which up to your new configuration from Setup Tool.

#### Note:

The factory default setting of IP address will automatically obtain an IP address from DHCP server. After obtaining, if there is no DHCP server on your network, the IP address will be **"192.168.0.20"**.

3. You can also use the Setup Tool to select a camera on device list, and click "Link to IE" button to directly link to IE.

	IP Address	MAC Address	Mod. Name	Mod. ID	5	Setup
letwork Camer	a 192.168.0.20	00304F257F38	Dual Mode CCD Dome Internet Ca.	ICA-510	_	
					8	Upgrade
					Star F	actory default
					U	Reboot
earch	🥭 Link to IE					
					-	
			als on function buttons to evalute. Cl	ick on Search to		

4. When you connect, the login page will be displayed as below.

7	GA
ICA-510 Dome Inte	ernet Camera
<u>U</u> ser name:	🖸 admin 📉 🚩
Password:	•••••
	Remember my password
	OK Cancel

#### Note:

- 1. The default user name and password both are "admin".
- 2. The Administrator's ID / Password can be configured on the "Account" of Security menu.
- 5. The first time you view the camera, you will be prompted to install an ActiveX component as below. You must install this ActiveX component in order to view the video stream in Internet Explorer. Click on "Install" to install.



6. After installing, you will be able to view the live video stream in its own window as below.



#### Note:

- 1. Video will start playing automatically. There might be a delay of a few seconds while the video stream is buffered.
- 2. There are a number of options available on homepage, accessed by select list, button or icon. The details are described in **Chapter 3.2 – General Options**.



	Snapshot
	Click to capture live image shot and store the picture in your computer.
	Full Screen
	Click to view the live video for full screen on your monitor.
	Zoom
	Click to display / close the zoom window.
	Pause / Play
	Click to pause / play the current video.
	Stop
U	Click to stop the current video.
	Record
	Click to record the current video to the location you want.
	Microphone turned On / Off
3	Click to turn on / off the microphone.
	Speaker turned On / Off
	Click to turn on / off the speaker.
	Volume
	If audio is enabled, use this slider to adjust the volume.

#### 3.2.1 Directly zoom in / out the image



1. Click ( to display the zoom window.

2. Pull the **Example 111** to adjust the zoom range, and it will be showed on the above window.

3. You can use the right click of your mouse to move the \_\_\_\_\_\_ to anywhere on the window.

#### 3.2.2 Language

You can click the pulldown box to select system language, including English, Traditional Chinese, Simplified Chinese, Deutsch, Japanese and Spanish.



### 3.2.3 Setting

Administrator can click this Setting bar to go to the setting page. The details are described in **Chapter 4 – Basic Setting & Chapter 5 – Advance Setting.** 



### 3.2.4 Client setting

In client setting option, you can select the Mode, View size, Protocol, Video buffer.



	Client setting
Mada	Click the pulldown box to choose between MPEG4 and MJPEG video
wode	compression mode.
View Size	Select the desired display image resolution to 320X240 or 640X480.
Protocol	Select the transferring protocol from TCP, UDP and HTTP.
	Turn the Video Buffer function On/Off. The Video Buffer function makes the
Video buffer	streaming more smoothly in unsteady network environment, but might cause
	a little delay in live viewing.

#### Note:

- 1. MJPEG streaming is unavailable if RTSP mode is **ON**.
- 2. The RTSP function can be configured on the "General" of Camera menu.

# 3.2.5 Image setup

You can use the tool bar to optimize the Brightness, Contrast, Saturation and Hue here.



# 4. Basic Setting

This Chapter provides basic setting details of the camera's web-based management. The camera can be configured via your web browser. That must have an IP address which is compatible with your network.

#### Note:

The recommended method to ensure this to use the supplied windows-based Setup Tool is described in **Chapter 2.3 – Software Quick Configuration**.

1. Click "Setting" on the left side of home page.



2. The welcome of setting page will be displayed as below.



3. The basic setting menu contains following options.

			Information
		System	Data/Time
		Initialize	
			General
			MPEG4
		Camera	> Computer view
			> Mobile view
Setting	Basic		MJPEG
			Information
			PPPoE
		Network	DDNS
			UPnP
			IP Notification
		Security	Account
			HTTPS

# 4.1 System

### 4.1.1 Information

This page will be displayed after clicking "**Basic > System > Information**" of the setting menu. It displays the system information of this camera.

	Dual Mod	e CCD Don	ne Internet Came	THE N
<ul> <li>HOME</li> <li>SETTING</li> <li>BASIC</li> <li>System</li> <li>Information</li> <li>Date/Time</li> <li>Initialize</li> <li>Camera</li> <li>Network</li> <li>Security</li> <li>Advance</li> </ul>	<ul> <li>Product name</li> <li>Firmware version</li> <li>Web version</li> </ul>	Dual Mode CCD Dom LM.1.6.16.007_PLA LM.1.6.16.007	e Internet Camera Mon Dec 24 11:01:02 CST 2007	

Information		
Product name	This displays the name of this product.	
Firmware version	This displays the current firmware version.	
Web version	This displays the current web version.	

# 4.1.2 Date/Time

This page will be displayed after clicking "**Basic > System > Date/Time**" of the setting menu. It allows you to adjust the date and time of this IP camera.

<ul> <li>HOME</li> <li>Current date/time 2007-12-28 14:49:35</li> <li>PC clock 2007-12-28 14:49:34</li> <li>Date/time formation</li> <li>Date/time formation</li> <li>Date/Time</li> <li>NoterTime</li> <li>Date/Time</li> <li>2007 ▼ - 12 ▼ - 28 ▼</li> </ul>		Dual Mo	ode CCD Dome Internet Camera
<ul> <li>Camera</li> <li>Metwork</li> <li>Security</li> <li>Advance</li> <li>14 ♥ : 27 ♥</li> <li>Synchronize with NTP</li> <li>NTP server name</li> <li>pool.ntp.org</li> <li>Auto</li> <li>Interval 1 ♥ hours</li> <li>OK Cancel</li> </ul>	HOME SETTING BASIC System Information Date/Time Initialize Camera Network Security Advance	<ul> <li>Current date/time</li> <li>PC clock</li> <li>Date/time format</li> <li>Adjust</li> </ul>	2007-12-28 14:49:35 2007-12-28 14:49:34 yyyyy-mm-dd hh:mm:ss ♥ • Keep current setting • Synchronize with PC • Manual setting 2007 ♥ - 12 ♥ - 28 ♥ 14 ♥ : 49 ♥ : 27 ♥ • Synchronize with NTP NTP server name pool.ntp.org pool.ntp.org [CMT+08:00] Taipei • Cancel

Date/Time		
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.	
	Click the pulldown box to select among different time display formats:	
Data/tima format	yyyy-mm-dd hh:mm:ss (year-month-day hour:minute:second),	
Date/time format	mm-dd-yyyy hh:mm:ss (month-day-year hour:minute:second),	
	dd-mm-yyyy hh:mm:ss (day-month-year hour:minute:second).	
	Select one of four time adjusting modes:	
	Keep current setting:	
	Select this mode to keep the current date & time of the device.	
	Synchronize with PC:	
Adjust	Select this mode to make the date & time the same as the PC.	
Adjust	Manual setting:	
	Select this mode to manually adjust the date & time of the device.	
	Synchronize with NTP:	
	Specify the NTP server name and the Interval to synchronize the date &	
	time with the time server.	
Timo zono	Select the time zone and time difference from Greenwich Mean Time in	
Time zone	the area where the device is installed from the pulldown box.	

## 4.1.3 Initialize

This page will be displayed after clicking "**Basic > System > Initialize**" of the setting menu. It allows you to maintain the system of this IP camera.

PLANET Referenting & Communication	Dual Mode CCD Dome Internet Camera
⊖ номе 	Reboot Reboot
SETTING	Factory default     Factory default
<ul> <li>BASIC</li> <li>System</li> </ul>	Backup setting data Save
Information	
Date/Time Initialize	Firmware upgrade     Browse)     OK
🜔 Camera	
Network	
Security	
Advance	

Initialize		
Reboot	Click this button to reboot the device. A confirmation dialogue will	
	appear. Click <b>OK</b> to proceed.	
	Click this button to reset the device to the factory default settings. A	
Footony dofault	confirmation dialogue will appear. Click <b>OK</b> to proceed. After	
Factory default	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 <b>OK</b> , and the device is	
	adjusted according to the loaded data and restarted.	
Firmware upgrade	Upgrade the device software. Click Browse and select the file for	
	upgrading. A confirmation dialogue will appear. Click <b>OK</b> to start	
	upgrading. The device will reboot upon completion.	

# 4.2.1 General

This page will be displayed after clicking "**Basic > Camera > General**" of the setting menu.

	Dual Mod	e CCD Dome Internet Camera
⊖ номе	□RTSP	O On ⊙ Off
SETTING BASIC System Camera General MPEG4 MJPEG Network Security Advance	Deinterlace Filter Overlay Text color Background color Alias Date/Time Display position	<ul> <li>On ⊙ Off</li> <li>Text overlay ○ Privacy mask ○ Off</li> <li>White ♥</li> <li>Black ♥</li> <li>On ⊙ Off</li> <li>Top ○ Bottom</li> <li>OK Cancel</li> </ul>

RTSP		
On / Off	Enable / disable the RTSP function.	
Deinterlace Filter		
On / Off	Enable / disable the Deinterlace filter function.	
Overlay		
	Enables users to see Date/Time on the screen.	
	Text color:	
	Choose test color as White or Black.	
	Background color:	
	Choose background color as White, Black or Transparent.	
Text overlay	Alias:	
	Fill the alias here.	
	Date/Time:	
	Enable or disable the Date/Time display.	
	Display position:	
	Choose display position as Top or Bottom.	
Primacy mask	Enables users to conceal an area of the video image.	
Off	Disable Overlay function.	

#### Note:

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

The primacy mask page is as below. You can adjust the mask size and position to a specified area.



# 4.2.2 MPEG4 – Computer view

This page will be displayed after clicking "Basic > Camera > MPEG4 > Computer view" of the setting menu.

	Dual Mode CCD Dome Internet Camera
<ul> <li>HOME</li> <li>SETTING</li> <li>BASIC</li> <li>System</li> <li>Camera</li> <li>General</li> <li>MPEG4</li> <li>Computer view</li> <li>Mobile view</li> <li>MJPEG</li> <li>Network</li> <li>Security</li> <li>Advance</li> </ul>	RTSP RTSP port • 554 ( 1024 ~ 65535) Viewer authentication • On • Off RTP Unicast streaming Port range 5000 (1024 ~ 65532) ~ 7999 (1027 ~ 65535) Multicast streaming • On • Off Multicast address 228.0.1 Video port • Auto • 6000 (1024 ~ 65535) Audio port • Auto • 7000 (1024 ~ 65535) Time-To-Live 15 (1 to 255) Image Size 704x480 • Frame rate 30 • fps Quality • Auto Fixed quality Excellent • Kbps K Cancel

RTSP		
	The RTSP (Real Time Streaming Protocol) is a standard for	
DTCD nort	connected clients to control streaming data (MPEG4) over the	
RISP port	World Wide Web. The default RTSP Port is 554. You can fill the	
	RTSP Port number (1024~65535) in the field provided.	
Viewor	Enable /disable the viewer authentication.	
Viewer	If the viewer authentication is ON, users viewing through RTSP will	
authentication	be requested to key-in username and password.	
RTP Unicast streaming		
	The RTP (Real Time Transport Protocol) is an Internet protocol for	
Dort range	transmitting real-time data such as audio and video. The default	
Portrange	port range is 5000 ~ 7999. You can fill the numbers (1024~65535)	
	in the field provided.	
RTP Multicast streaming		
On / Off	Enable / disable multicast streaming function.	
Multicast address	Specify the multicast server address.	

Video port	Specify the transmission port number of the video data. You can fill	
	the numbers (1024~65535) in the field provided.	
Audio port	Specify the transmission port number of the audio data. You can fill	
	the numbers (1024~65535) in the field provided.	
Time-To-Live	Set the maximum TTL that multicast can pass through.	
Computer View		
	Specify the image size the network camera transmits.	
Image size	You can choose among 704 × 480, 352 × 240 and 176 × 120 for	
	NTSC and 704 × 576, 352 × 288 and 176 × 144 for PAL.	
	Set the frame rate of the MPEG4 image. Selectable values are 5,	
Frame rate	10, 15, 20, 25, 30 fps. The unit "fps" stands for "frames sent per	
	second".	
	Auto:	
	The quality and bitrate will be automatically decided according to	
	the frame rate.	
	Fixed Quality:	
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, 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.

### 4.2.3 MPEG4 – Mobile view

This page will be displayed after clicking "**Basic > Camera > MPEG4 > Mobile view**" of the setting menu.

	Dual Mode CCD Dome Internet Camera
<ul> <li>HOME</li> <li>SETTING</li> <li>BASIC</li> <li>System</li> <li>Camera</li> <li>General</li> <li>MPEG4</li> <li>Computer view</li> <li>Mobile view</li> <li>MJPEG</li> <li>Network</li> <li>Security</li> <li>Advance</li> </ul>	<ul> <li>RTSP</li> <li>RTSP port ○ 554 ● 8554 (1024 ~ 65535)</li> <li>RTP</li> <li>Unicast streaming</li> <li>Port range 9000 (1024 ~ 65532) ~ 11999 (1027 ~ 65535)</li> <li>Multicast streaming ○ On ○ Off</li> <li>Multicast address 226.0.1</li> <li>Video port ○ Auto ○ 10000 (1024 ~ 65535)</li> <li>Audio port ○ Auto ○ 11000 (1024 ~ 65535)</li> <li>Time-To-Live 15 (1 to 255)</li> <li>Image Size 176x120 ♥</li> <li>Frame rate 5 ♥ fps</li> <li>Quality</li> <li>Auto</li> <li>Fixed quality Excellent ♥</li> <li>OK Cancel</li> </ul>

RTSP		
	The RTSP (Real Time Streaming Protocol) is a standard for	
DTCD mort	connected clients to control streaming data (MPEG4) over the World	
RISP port	Wide Web. The default RTSP Port is 554. You can fill the RTSP Port	
	number (1024~65535) in the field provided.	
RTP Unicast streaming		
	The RTP (Real Time Transport Protocol) is an Internet protocol for	
Dort range	transmitting real-time data such as audio and video. The default port	
Port range	range is 9000 ~ 11999. You can fill the numbers (1024~65535) in the	
	field provided.	
RTP Multicast streaming		
On / Off	Enable / disable multicast streaming function.	
Multicast address	Specify the multicast server address.	
	Specify the transmission port number of the video data. You can fill	
Video port	the numbers (1024~65535) in the field provided.	

Audio port	Specify the transmission port number of the audio data. You can fill	
	the numbers (1024~65535) in the field provided.	
Time-To-Live	Set the maximum TTL that multicast can pass through.	
Mobile View		
Image size	176 × 120 for mobile.	
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".	
	Fixed Bitrate:	
Quality	Set the bit rate of MPEG4 image transmission for a line. Selectable	
	values are 16, 32, and 64 kbps.	

### 4.2.4 MJPEG

This page will be displayed after clicking "Basic > Camera > MJPEG" of the setting menu.

	Dual Mode CCD Dome Internet Camera
<ul> <li>HOME</li> <li>SETTING</li> <li>BASIC</li> <li>System</li> <li>Camera</li> <li>General</li> <li>MPEG4</li> <li>Computer view</li> <li>Mobile view</li> <li>MJPEG</li> <li>Network</li> <li>Security</li> <li>Advance</li> </ul>	<ul> <li>MJPEG viewer port Unicast streaming Video/Audio port number 8070 (1024 ~ 65534) Video/Audio port number(SSL) 8071</li> <li>Image Size 704x480 ♥</li> <li>Frame rate 15 ♥ fps</li> <li>Quality</li></ul>

MJPEG viewer port – Unicast streaming		
Video/Audio port	Specify the transmission port number of the video data. Specify an even	
number	number from 1024 to 65534.	
Video/Audio port	Specify the SSL transmission port number of the video data. Specify an	
number (SSL)	even number from 1024 to 65534.	
	Specify the image size the network camera transmits. You can choose	
Image Size	among 704 × 480, 352 × 240 and 176 × 120 for <b>NTSC</b> and 704 × 576, 352	
	× 288 and 176 × 144 for <b>PAL</b> .	
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".	
	Auto:	
Quality	The quality will be automatically decided.	
	Fixed quality:	
	The selectable values are Medium, Standard, Good, Detailed and	
	Excellent.	

#### 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.

# 4.3 Network

#### 4.3.1 Information

This page will be displayed after clicking "**Basic > Network > Information**" of the setting menu. It displays the network information of this camera.

PLANET References	Dual Mode (	CD Dome Internet Camera
	<ul> <li>MAC address</li> <li>Obtain an IP address au</li> <li>Use the following IP address addres</li></ul>	tomatically (DHCP)
<ul> <li>System</li> <li>Camera</li> <li>Network</li> <li>Information</li> </ul>	IP address Subnet mask Default gateway	192.168.0.20         255.255.255.0         192.168.0.254
DDNS UPnP IP Notification Security	<ul> <li>Use the following DNS server</li> <li>Primary DNS server</li> <li>Sencodary DNS server</li> <li>HTTP port number</li> </ul>	<ul> <li>server address</li> <li>168.95.1.1</li> <li>192.95.192.1</li> <li>80 (1024 to 65535)</li> </ul>
Advance	OK	Cancel

Information		
MAC address	Display the MAC address of the device.	
Obtain an IP address	If a DHCP server is installed on the network, to select this while the	
automatically (DHCP)	IP address is assigned by the DHCP server.	
	Select this when a fixed IP address is set.	
	IP address:	
Liss the following ID	Enter the IP address of the device.	
	Subnet mask:	
auuress	Enter the subnet mask.	
	Default gateway:	
	Enter the default gateway.	
Obtain DNS address	Select this to obtain the address of DNS server automatically	
automatically	Select this to obtain the address of DNS server automatically.	

Use the following DNS address	Select this when you set the fixed DNS address.
	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 <b>80</b> in general situations.
	If you want to use a port number other than <b>80</b> , 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 → http://192.168.0.20:2000

### 4.3.2 PPPoE

This page will be displayed after clicking "**Basic > Network > PPPoE**" of the setting menu. It allows you to configure the dial-up connection.

	Dual Mod	e CCD Dome Internet Camera
<ul> <li>HOME</li> <li>SETTING</li> <li>BASIC</li> <li>System</li> <li>Camera</li> <li>Network</li> <li>Information</li> <li>PPPOE</li> <li>DDNS</li> <li>UPnP</li> <li>IP Notification</li> </ul>	■ PPPoE ④ On 〇 Off IP address User ID Password Re-type password ④ Obtain DNS serve 〇 Use the following	0.0.0         enm_planet         •••••••         •••••••         •••••         ••••         ••••         ••••         ••••         ••••         ••••         ••••         ••••         ••••
<ul> <li>Security</li> <li>Advance</li> </ul>	ОК	Cancel

PPPoE			
On / Off	Enable/disable the PPPoE function.		
IP address	The IP address obtained at the PPPoE connecting with network.		
	Enter the user ID for authentication necessary for PPPoE		
User ID	connections. Type it up to 64 characters.		
Decoward	Enter the password for authentication necessary for PPPoE		
Password	connections. Type it up to 32 characters.		
Re-type password	Re-type the password to confirm.		
Obtain DNS server	Coloct this to obtain the address of DNC conver outematically		
address automatically			
	Select this when you set the fixed address as the IP address of DNS		
	server.		
Use the following DNS	Primary DNS server:		
server address	Enter the IP address of the primary DNS server.		
	Secondary DNS server:		
	Enter the IP address of the secondary DNS server.		

### 4.3.3 DDNS

This page will be displayed after clicking "**Basic > Network > DDNS**" of the setting menu. It allows you to configure the dynamic DNS connection.

	Dual Mode CCD Dome Internet Camera	A.
HOME SETTING SETTING SASIC System Camera Camera Network Information PPPoE DDNS UPnP IP Notification Security Advance	DDNS On Off   Server name   http://www.dyndns.org   User ID   ddns_planet   Password   eneree   Re-type password   eneree   Host name   planet.dyndns.org   OK Cancel	

DDNS		
On / Off	Enable/disable the DDNS function.	
Server name	Enter the name of 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.	
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.

# 4.3.4 UPnP

This page will be displayed after clicking "**Basic > Network > UPnP**" of the setting menu. It allows you to enable or disable the UPnP function.

PLANET Dual Mode CC	D Dome Internet Camera
<ul> <li>➡ HOME</li> <li>■ UPnP • On O Off</li> <li>■ SETTING</li> <li>■ BASIC</li> <li>■ System</li> <li>■ Camera</li> <li>■ Network</li> <li>■ Information</li> <li>PPPoE</li> <li>DDNS</li> <li>UPnP</li> <li>IP Notification</li> <li>● Security</li> <li>● Advance</li> </ul>	• warding         • 80 • (1024 ~ 65535)         • 443 • (1024 ~ 65535) $8090$ (1024 ~ 65535) $8091$ (1024 ~ 65535) $8070$ (1024 ~ 65535) $8071$ (1024 ~ 65535) $8050$ (1024 ~ 65535) $8050$ (1024 ~ 65535) $8030$ (1024 ~ 65535) $8030$ (1024 ~ 65535) $Cancel$

UPnP		
Turn On UPnP port	For opening a port in a router or firewall in a private network in	
forwarding	order to let a party from the outside world contact a user inside.	
	Enter the HTTP port number and default HTTP port is 80.	
HTTP port	You can fill the numbers (1024~65535) in the field provided.	
SSI nort	Enter the SSL port number and default SSL port is 443.	
SSL port	You can fill the numbers (1024~65535) in the field provided.	
MDEC4 viewer pert	Enter the MPEG4 viewer port number and default MPEG4	
WPEG4 viewer port	viewer port is 8090.	
MPEG4 viewer port (SSL)	Enter the MPEG4 SSL viewer port and default is 8091.	
MIDEC viewer nort	Enter the MJPEG viewer port number and default MJPEG	
MJPEG viewer port	viewer port is 8070.	
MJPEG viewer port (SSL)	Enter the MPEG4 SSL viewer port and default is 8071.	

### 4.3.5 IP Notification

This page will be displayed after clicking "**Basic > Network > IP Notification**" of the setting menu. It allows you to configure the IP Notification via SMTP.

	Dual Mode (	CCD Dome Internet Camera
HOME SETTING SETTING Settons System Camera Camera Network Information PPPOE DDNS UPnP IP Notification Security Advance	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 Message	<ul> <li>DHCP Static IP PPPoE</li> <li>smtp.planet.com.tw</li> <li>On Off</li> <li>SMTP POP before SMTP</li> <li>pop.planet.com.tw</li> <li>notify_planet</li> <li>notify@planet.com.tw</li> <li>admin@planet.com.tw</li> <li>IP Notify</li> <li>Product Name : <product></product></li> <li>Web Version : <vreb></vreb></li> <li>APP Version : <vreb></vreb></li> <li>APP Version : <vreb></vreb></li> <li>Help</li> <li>Cancel Test</li> </ul>

IP Notification		
On / Off	Enable/disable the IP Notification function.	
Notify type	Select type of DHCP, Static IP and PPPoE will notify.	
SMTP server	Type the SMTP server name up to 64 characters, or the IP address of the	
name	SMTP server.	
	Select the authentication required when you send an email.	
	On:	
	When authentication is necessary an e-mail is sent, select one of the	
	authentication methods from the followings.	
	Off:	
Authentication	Select if no authentication is necessary when an email is sent.	
	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.	

	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	Type the recipient e-Mail address up to 64 characters. You can specify up
e-mail address	to three recipient E-mail addresses.
Administrator	Type the Administrator e-Mail address up to 64 characters. This address is
e-mail address	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
Subject	which is sent according to the IP notification.
Mossago	Type the text of the E-mail up to 384 characters. Default value provide
wessage	network information including IP, Port, MAC, Model and Serial

#### Note:

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

# 4.4 Security

#### 4.4.1 Account

This page will be displayed after clicking "**Basic > Security > Account**" of the setting menu. It allows you to modify and add users for accessing.

номе	User ID	User name	Password	Re-type Password	Viewer mode
SETTING	Administrator	admin	•••••		Admin 💌
S BASIC					
System	User 1	enm	•••••	•••••	Admin 🔽
Camera	User 2				Admin Operator
Network	User 3				Viewer
🗢 Security	User 4				Admin 💌
Account	User 5				Admin 🔽
HTTPS	User 6				Admin 💌
Advance	User 7				Admin 💌
	User 8				Admin 💌
	User 9				Admin 🔽
		Viewer authenti	Cation ○ On ⊙ O OK Cancel	ff Admin 💌	

Account		
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.	

# 4.4.2 HTTPS

This page will be displayed after clicking "**Basic > Security > HTTPS**" of the setting menu. It allows you to access the IP camera via HTTPS.

	Dual Mode CCD Dome Internet Camera
HOME SETTING BASIC System Camera Network Security Account HTTPS Advance	<ul> <li>Create &amp; Install Create self-signed certificate Installed Certificate Subject Name No certificate installed. Properties Remove </li> <li>HTTPS Connection Policy Administrator Operator Viewer HTTP ♥ HTTP ♥ HTTP ♥ </li> </ul>

HTTPS		
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.	

# 5. Advance Setting

This Chapter provides advance setting details of the camera's web-based management. The camera can be configured via your web browser. That must have an IP address which is compatible with your network.

#### Note:

The recommended method to ensure this to use the supplied windows-based Setup Tool is described in **Chapter 2.3 – Software Quick Configuration**.

1. Click "Setting" on the left side of home page.



2. The welcome of setting page will be displayed as below.



3. The advance setting menu contains following options.

			General
		FTP client	Alarm sending
			Periodical sending
			General
		SMTP	Alarm sending
Sotting	Advance		Periodical sending
Setting		HTTP event	General
			Alarm sending
		Schedule	Setting
		Alarm buffer	Setting
		Motion detection	Setting
		System Log	Setting

# 5.1 FTP client

#### 5.1.1 General

This page will be displayed after clicking "Advance > FTP client > General" of the setting menu. It allows you to send the image or video to FTP server.

	Dual M	ode CCD Dome In	ternet Camera
HOME  SETTING BASIC Advance FTP client General Alarm sending Periodical sendin	<ul> <li>□ FTP client          <ul> <li>○ On O</li> <li>FTP server name</li> <li>User name</li> <li>Password</li> <li>Re-type password</li> <li>Passive mode</li> <li>Attached file type</li> </ul> </li> </ul>	Off         ftp.planet.com.tw         enm_planet         ••••••••         ••••••••         ••••••••         ••••••••         ••••••••         ••••••••         ••••••••	
<ul> <li>SMTP</li> <li>HTTP event</li> <li>Schedule</li> <li>Alarm buffer</li> <li>Motion detection</li> <li>System Log</li> </ul>	OK	Cancel Test	

FTP client			
On / Off	Enable/disable the FTP client function.		
ETD conver nome	Type the FTP server name to upload still images up to 64 characters, or		
FIF Server fidilie	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.		
Re-type password	To confirm the password.		
	Set whether you use the passive mode of FTP server or not when		
Passive mode	connecting to FTP server. Select <b>On</b> to connect to FTP server using the		
	passive mode.		
Attached file type	Set attached file type to MPEG or MJPEG.		

#### Note:

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

# 5.1.2 Alarm sending

This page will be displayed after clicking "Advance > FTP client > Alarm sending" of the setting menu. It allows you to send the image or video to FTP server with the alarm detection.

	Dual N	lode CCD Dome Internet Camera
	□ Alarm sending ⓒ Remote path	On O Off
BASIC     Advance     TTD slight	Image file name Suffix	⊙ Date Time ⊖ Sequence number
General Alarm sending Periodical sendin	Alarm	Motion detection     Motion detection     Use alarm buffer     Alarm buffer
<ul> <li>SMTP</li> <li>HTTP event</li> <li>Schedule</li> <li>Alarm buffer</li> <li>Motion detection</li> <li>System Log</li> </ul>	Effective Period	<ul> <li>Always</li> <li>Schedule Schedule</li> <li>OK Cancel</li> </ul>

Alarm sending			
On / Off	Enable/disable the Alarm sending function.		
Remote path	Type the path to the destination in FTP server up to 64 characters.		
	Type the file name you want to assign to the images when sending to the		
Image file name	FTP server. You can use up to 10 alphanumeric characters, - (hyphen)		
	and _ (underscore) for naming.		
	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		
Suffix	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.		

Alarm		
Matian Datastian	Click it on for using Motion Detection function as a sensor.	
Wotion Detection	You can set the motion detection function page.	
Use 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.	
Effective Period		
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.	

#### Note:

Motion Detection works only when the Video mode is set to MPEG4 and the Cropping is set to Off.

# 5.1.3 Periodical sending

This page will be displayed after clicking "Advance > FTP client > Periodical sending" of the setting menu. It allows you to send the image or video to FTP server with the setting period.

		Dual Mode CCD Dome Internet Camera
<ul> <li>Periodical sending On Off</li> <li>SETTING</li> <li>SETTING</li> <li>SETTING</li> <li>SETTING</li> <li>SASIC</li> <li>Advance</li> <li>FTP client</li> <li>General</li> <li>Alarm sending</li> <li>Periodical sending</li> <li>OD H 30 M</li> <li>(MIN : 1min. MAX : 24-hour interval)</li> <li>Effective Period Always</li> <li>Schedule</li> <li>Alarm buffer</li> <li>Motion detection</li> <li>System Log</li> </ul>	<ul> <li>HOME</li> <li>SETTING</li> <li>BASIC</li> <li>Advance</li> <li>FTP client General Alarm sending Periodical sendin</li> <li>SMTP</li> <li>HTTP event</li> <li>Schedule</li> <li>Alarm buffer</li> <li>Motion detection</li> <li>System Log</li> </ul>	<ul> <li>Periodical sending ⊙ On ○ Off</li> <li>Remote path</li> <li>Image file name</li> <li>Suffix ○ None ○ Date Time ⊙ Sequence number</li> <li>Sequence number clear Clear</li> <li>Interval ○ ○ H ③ ○ M</li> <li>(MIN : 1min. MAX : 24-hour interval)</li> <li>Effective Period ○ Always</li> <li>⊙ Schedule Schedule</li> <li>○K Cancel</li> </ul>

Periodical sending		
On / Off	Enable/disable the Periodical sending function.	
Remote path	Type the path to the destination in FTP server up to 64 characters.	
	Type the file name you want to assign to the images when sending to the	
Image file name	FTP server. You can use up to 10 alphanumeric characters, - (hyphen)	
	and _ (underscore) for naming.	
	Select a suffix to add to the file name:	
	None:	
	The name of the sent file will be the Image file name.	
	Date & time:	
Suffix	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 <b>Clear</b> 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		
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.	

#### 5.2.1 General

This page will be displayed after clicking "Advance > SMTP > General" of the setting menu. It allows you to send the image via SMTP.

	Dual Mode C	CD Dome Internet Camera	K
HOME SETTING SETTING Advance FTP client SMTP General Alarm sending Periodical sendin HTTP event	<ul> <li>e-Mail (SMTP)          <ul> <li>On <ul>                 Off</ul></li>                 SMTP server name</ul></li>                 Authentication                 POP server name                 User name                 Password                 Recipient e-Mail address </ul>	smtp.planet.com.tw  o On Off  SMTP POP before SMTP  pop.planet.com.tw  enm_planet  alarm@planet.com.tw	
<ul> <li>Schedule</li> <li>Alarm buffer</li> <li>Motion detection</li> <li>System Log</li> </ul>	Administrator e-Mail address Attached file type Subject Message	admin@planet.com.tw  O JPEG O MPEG4  SMTP sending  Cancel Test	

e-Mail (SMTP)		
On / Off	Enable/disable the SMTP function.	
SMTD conver nome	Type the SMTP server name up to 64 characters, or the IP	
Swith Server hame	address of the SMTP server.	
	Select the authentication required when you send an email.	
	On:	
	When authentication is necessary an e-mail is sent, select one of	
	the authentication methods from the followings.	
Authentication	Off:	
	Select if no authentication is necessary when an email is sent.	
	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
	POP server name:
	It is necessary when the <b>POP before SMTP</b> 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.
Desinient e meil eddroes	Type the recipient e-Mail address up to 64 characters. You can
Recipient e-mail address	specify up to three recipient E-mail addresses.
Administrator a mail	Type the Administrator e-Mail address up to 64 characters. This
Administrator e-mail	address is used for reply mail and sending system messages
address	from the SMTP server.
	Type the subject/title of the e-Mail up to 64 characters. With
	respect to mail which is sent according to the alarm detection
Subject	when Alarm sending of the alarm tab is set to <b>On</b> , the
	characters standing for the sensor type added to the subject.
	Type the text of the E-mail up to 384 characters. (A line break is
Message	equivalent to 2 characters.)

#### Note:

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

# 5.2.2 Alarm sending

This page will be displayed after clicking "Advance > SMTP > Alarm sending" of the setting menu. It allows you to send the image via SMTP with the alarm detection.

	Dual Mode CCD Dome Internet Camera
<ul> <li>HOME</li> <li>SETTING</li> <li>BASIC</li> <li>Advance</li> <li>FTP client</li> </ul>	<ul> <li>□ Alarm sending ⊙ On ○ Off</li> <li>File attachment ⊙ On ○ Off</li> <li>Image file name</li> <li>Suffix ○ None ⊙ Date Time ○ Sequence number</li> </ul>
<ul> <li>SMTP</li> <li>General</li> <li>Alarm sending</li> <li>Periodical sendin</li> </ul>	Alarm       Motion detection       Motion detection         Use alarm buffer       Alarm buffer
<ul> <li>HTTP event</li> <li>Schedule</li> <li>Alarm buffer</li> <li>Motion detection</li> <li>System Log</li> </ul>	Effective Period Always Schedule Schedule OK Cancel

Alarm sending		
On / Off	Enable/disable the Alarm sending function.	
	Set whether an image file is attached to the mail sent or not.	
File attachment	When <b>On</b> is selected, the image file made by the settings below is	
	attached. When Off is selected, only the message is sent.	
	Type the file name you want to assign to the images when sending to the	
Image file name	FTP server. You can use up to 10 alphanumeric characters, - (hyphen)	
	and _ (underscore) for naming.	
	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:	
Cuffix	The date & time suffix is added to the Image file name. The date/time suffix	
Sumx	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.	

Alarm		
Motion Detection	Click it on for using <b>Motion Detection</b> function as a sensor.	
	You can set the motion detection function page.	
Use 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.	
Effective Period		
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.	

#### Note:

Motion Detection works only when the Video mode is set to MPEG4 and the Cropping is set to Off.

# 5.2.3 Periodical sending

This page will be displayed after clicking "Advance > SMTP > Periodical sending" of the setting menu.

	Dual Mode CCD Dome Internet Camera
HOME SETTING SETTING Advance FTP client SMTP General Alarm sending Periodical sendin HTTP event Schedule Alarm buffer Motion detection System Log	<ul> <li>Periodical sending ⊙ On ○ Off</li> <li>Image file name</li> <li>Suffix ○ None ○ Date Time ⊙ Sequence number</li> <li>Sequence number clear Clear</li> <li>Interval 00 H 30 M</li> <li>(MIN : 30min. MAX : 24-hour interval)</li> <li>Effective Period ○ Always</li> <li>⊙ Schedule Schedule</li> <li>OK Cancel</li> </ul>

Periodical sending		
On / Off	Enable/disable the Periodical sending function.	
	Type the file name you want to assign to the images when sending to the	
Image file name	FTP server. You can use up to 10 alphanumeric characters, - (hyphen)	
	and _ (underscore) for naming.	
	Select a suffix to add to the file name:	
	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	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 <b>Clear</b> 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		
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.	

# 5.3 HTTP event

#### 5.3.1 General

This page will be displayed after clicking "Advance > HTTP event > General" of the setting menu. It allows you to send the image or video to HTTP server.

	Dual Mode CCD Dome Internet Camera
HOME SETTING BASIC Advance FTP client SMTP HTTP event General Alarm sending Schedule Alarm buffer Motion detection System Log	HTTP event ⊙ On ○ Off URL   Port 80   User ID

HTTP event		
On / Off	Enable/disable the HTTP event function.	
URL	Type the URL of the HTTP server.	
Port	Type the port number of HTTP server.	
User ID	Type the user name for the HTTP server.	
Password	Type the password for the HTTP server.	
Proxy server name	Type the proxy server name.	
Proxy port number	Type the proxy server port number.	
Proxy user ID	Type the user name for the proxy server.	
Proxy password	Type the password for the proxy server.	
Test Button	You can use this button to test the HTTP connection.	

# 5.3.2 Alarm sending

This page will be displayed after clicking "Advance > HTTP event > Alarm sending" of the setting menu. It allows you to send the image or video to HTTP server with the alarm detection.

	Dual Mode CCD Dome Internet Camera
HOME SETTING SETTING Advance Advance FTP client SMTP HTTP event General Alarm sending Schedule Alarm buffer Motion detection System Log	<ul> <li>Alarm sending ⊙ On ○ Off</li> <li>Alarm Ø Motion detection Motion detection</li> <li>Parameter</li> <li>Wessage</li> <li>Use alarm buffer Alarm buffer</li> <li>Parameter</li> <li>Message</li> <li>Effective Period ○ Always</li> <li>OK Cancel</li> </ul>

Alarm sending			
On / Off	Enable/disable the alarm sending function.		
	Alarm		
Motion dotaction	Click it on for using Motion Detection function as a sensor. You can set		
wotion detection	the motion detection function page.		
User 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.		
Effective Period			
Always	The periodical sending is always effective.		
	You can specify the period when the periodical sending is effective in		
Schedule	the schedule setting in the other section. Click Schedule and the setting		
	menu for the effective period is displayed.		

Note:

Motion Detection works only when the Video mode is set to MPEG4 and the Cropping is set to Off.

# 5.4 Schedule

# 5.4.1 Setting

This page will be displayed after clicking "Advance > schedule > Setting" of the setting menu.

	Dual Mode CCD Dome Internet Camera
<ul> <li>HOME</li> <li>SETTING</li> <li>BASIC</li> <li>Advance</li> <li>FTP client</li> <li>SMTP</li> <li>HTTP event</li> <li>Schedule</li> <li>Setting</li> <li>Alarm buffer</li> <li>Motion detection</li> <li>System Log</li> </ul>	Schedule selection       FP-Alam         Mon Start time       00       : 00       - End time       24       : 00         Tue Start time       00       : 00       - End time       24       : 00         Wed Start time       00       : 00       - End time       24       : 00         Wed Start time       00       : 00       - End time       24       : 00         Thu Start time       00       : 00       - End time       24       : 00         Fri       Start time       00       : 00       - End time       24       : 00         Sat       Start time       00       : 00       - End time       24       : 00         Sun Start time       00       : 00       - End time       24       : 00         Use the same time schedule every day.       OK       Cancel
<ul> <li>HTTP event</li> <li>Schedule</li> <li>Setting</li> <li>Alarm buffer</li> <li>Motion detection</li> <li>System Log</li> </ul>	Sun Start time 00 : 00 - End time 24 : 00 Use the same time schedule every day.

Schedule		
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, Image memory – Alarm, Image memory –	
	Periodical, Alarm output – Alarm or Alarm output – Timer.	
Mon to Sun	The time period on the right of the checked day is the effective period	
	of the schedule.	
Start time	Fill the desired start time using a 24 hr clock.	
End time	Fill the desired end time using a 24 hr clock.	
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.	

### 5.5.1 Setting

This page will be displayed after clicking "Advance > Alarm buffer > Setting" of the setting menu.

	Dual Mode CCD Dome Internet Camera
HOME SETTING BASIC Advance FTP client SMTP HTTP event Schedule Alarm buffer Setting Motion detection	Alarm buffer On Off Video mode MPEG4 Recording capacity Pre-alarm period 5 Sec. Post-alarm period 5 Sec. Recording time Pre-alarm period 5 Sec. OK Cancel
System Log	

Alarm buffer		
On / Off	Enable/disable the Alarm buffer function.	
Video mode	Display the video mode.	
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		
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.

# **5.6 Motion detection**

#### 5.6.1 Setting

This page will be displayed after clicking "Advance > Motion detection > Setting" of the setting menu. It allows you to set detection areas.



Motion Detection		
Area Screen	You can set the full screen or areas of the video image to be examined.	
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.	

#### Note:

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

# 5.7 system Log

### 5.7.1 Setting

This page will be displayed after clicking "Advance > System Log > Setting" of the setting menu. It allows users to review any changes and events.

	Dual Mode CCD Dome Internet Camera	L
<ul> <li>HOME</li> <li>SETTING</li> <li>BASIC</li> <li>Advance</li> <li>FTP client</li> <li>SMTP</li> <li>HTTP event</li> <li>Schedule</li> <li>Alarm buffer</li> <li>Motion detection</li> <li>System Log</li> </ul>	Remote Log Enable remote log Server name Server Port • 514 • (1024 ~ 65535) OK Cancel Identified the server of the server of the server point of the	
Setting	Jan 1 00:00:21 <debug> LOG: SL stuff inited okay Jan 1 00:00:23 <info> LOG: SL stuff inited okay Jan 1 00:00:23 <debug> LOG: ffmpeg.c,7797: About to load error strings Jan 1 00:00:23 <debug> LOG: ffmpeg.c,7800: Loaded error strings Jan 1 00:00:23 <debug> LOG: SL stuff inited okay Jan 1 00:00:23 <debug> LOG: SL stuff inited okay Jan 1 00:00:24 <info> LOG: Entering InitSSLStuff Jan 1 00:00:24 <debug> LOG: jpeg_main.c,2814: About to load error strings Jan 1 00:00:24 <debug> LOG: jpeg_main.c,2817: Loaded error strings Jan 1 00:00:25 <debug> LOG: JPEGMAIN SSL stuff inited okay fd 7 port 8071 Jan 1 00:00:34 <debug> UPnP: eth0 : IP 192.168.1.100 Jan 1 00:00:41 <notice> syslog: boa.c,144: SSL started Jan 1 00:00:48 <info> ALARM: Alarm Buffer Event Receive</info></notice></debug></debug></debug></debug></info></debug></debug></debug></debug></info></debug>	

Remote Log			
Inable remote logCheck the box to enable the remote log function.			
Server Name	Enter the address of the remote log server.		
	This sets the port number for remote log.		
Server Port	You can connect with default port 514 or enter the port number		
	(1024~65535) in the field provided.		
Current Log			
System log window	This is a log of system activity.		

# Appendix A --- Enable ActiveX options on your PC

Your Internet Explorer security settings must allow for the web page to work correctly. To use the IP camera, user must setup his IE browser as follows:

From your IE browser  $\rightarrow$  "Tools"  $\rightarrow$  "Internet Options..."  $\rightarrow$  "Security"  $\rightarrow$  "Custom Level...", please setup your "Settings" as follow.

Enable the 3 options as below,

- Download the signed ActiveX controls
- · Download the unsigned ActiveX controls
- · Initialize and script the ActiveX controls not masked as safe to Prompt

e Edit View Pavorites Tools Help	
Back	es 🎯 History 🗈 + 🎒 🖬 📄
Genera Security Content   Connections   Progra Select a Web content zone to specify its security	ams   Advanced
Internet Local intranet Trusted sites	Settings: ActiveX controls and plug-ins Download signed ActiveX controls Disable
Internet This zone contains all Web sites you haven't placed in other zones Security level for this zone	O Disable     O Epable     O Prompt     Download unstaned ActiveX controls     O Disable     Epable     O Prompt
<b>Custom</b> Custom settings. - To change the settings, click Custo - To use the recommended settings,	Initialize and script ActiveX controls not marked as safe     Disable     Enable     Prompt     Dive memory scalaries and sking inc.
Custom Level	Reset custom settings Reset fn: Medium Reset

By now, you have finished your entire PC configuration.

# **Appendix B --- Bandwidth Estimation**

The frame rate of video transmitted from the IP camera depends on connection bandwidth between client and server, video resolution, codec type, and quality setting of server. Here is a guideline to help you roughly estimate the bandwidth requirements for your IP camera.

The required bandwidth depends on content of video source. The slow motion video will produce smaller bit rate generally and fast motion will produce higher bit rate vice versa. Actual results generated by the IP camera may be varying.

Quality	704*480	352*240	176*120
Excellent	2000	800	200
Detailed	850	250	80
Good	450	150	60
Standard	350	110	50
Medium	250	90	40

#### MPEG4 @ 30fps / kbps

#### Note:

Audio streaming also takes bandwidth around 5 kbps to 64kbps. Most xDSL/Cable modem upload speeds may not even reach up to 128 kbps. Thus, you may not be able to receive any video while streaming audio on a 128 kbps or lower connection. Even though the upload speed is more than 128kbps, for optimal video performance, disabling audio streaming will get better video performance.

To use IP cameras via mobile phones, please make sure your RTSP is set to "ON" (Default is "ON"). To change the settings of IP cameras, please refer to the "General of Camera Settings" for details.

# **3G Mobile Phone viewing**

For 3G mobile phone viewing, type "**rtsp://<IP>:<PORT>/video.3gp**" into your 3G web browser. <IP> is the IP address of your IP camera, <PORT> is the RTSP port of your IP camera (Default value is 8554).

Example: rtsp://100.10.10.1:8554/video.3gp

#### Note:

You can also use RTSP clients (RealPlayer, MPlayer, Windows Media Player, Quicktime...etc.) to view RTSP streaming, just type in "**rtsp://<IP>:<PORT>/video.3gp**" as the Player's URL.

# 2.5G Mobile Phone viewing

For 2.5G mobile phone viewing, type "**<IP>/mobile.wmI**" into your 2.5G web browser. **<IP>** is the IP address of your IP camera.