

# H.264 36x Outdoor Speed Dome IP Camera

# ICA-H652



# User's manual

Version 1.0.0

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The is a class A device, In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

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# Revision

User's Manual for PLANET H.264 36x Outdoor Speed Dome IP Camera Model: ICA-H652 Rev: 1.0.0 (2010, Augest) Part No. EM-ICAH652\_v1

- 3 -

TABLE	OF	CONTENTS
-------	----	----------

Chapte	r 1 Intro	oduction	6
Ove	erview		6
Pac	kage Con	tent	7
Phy	sical Deta	ails	7
	Camera	Substance	7
	Switch l	Identification	
Chapte	r 2 Cam	era Setup and Cable Connections	
Phy	sical Insta	allation Requirement	
2.1	System R	equirements	
2.2	Verify the	e Contents Inside Package Box	
2.3	Physical I	Installation	
2.4	Dome Ca	mera Setups	
	2.4.1	Switch/Connector Definition	
	2.4.2	Communication Switch Setting	
2.5	Cables an	nd Connections	
	2.5.1	Cable Requirements	
	2.5.2	22-Pin Data Cable	
	2.5.3	22-Pin Connector Definition	
Chapte	r 3 Acces	ssing Camera	21
3.1	Device Se	earch Software Setup	
3.2	Device Se	arch	
3.3	Example	of Changing IP Camera's Network Property	
3.4	Installing	DC Viewer Software Online	
3.5	Administı	rator / User Privileges	
Chapte	r 4 Conf	iguration & Operation	
4.1	Browser-l	based Viewer Introduction	
4.2	Home P	Page	
4.3	System	Related Settings	
	4.3.1	Host Name and System Time Setting	
	4.3.2	Security	
	4.3.3	Network	
	4.3.4	DDNS	
	4.3.5	Mail	
	4.3.6	FTP	
	4.3.7	Application (Alarm Settings)	
	4.3.8	Motion Detection	
	4.3.9	Snapshot	

	4.3.10	View Log File	49
	4.3.11	View User Information	49
	4.3.12	View Parameters	51
	4.3.13	Factory Default	51
	4.3.14	Software Version	52
	4.3.15	Software Upgrade	52
4.4	Video and A	Audio Streaming Settings	54
	4.4.1	Video Resolution and Deinterlacing Function	54
	4.4.2	Video Compression	55
	4.4.3	Video OCX Protocol	56
	4.4.4	Video Frame Skip	57
	4.4.5	Audio Mode and Bit Rate Settings	58
4.5	PTZ Setting	38	59
	4.5.1	Preset	59
	4.5.2	Cruise	59
	4.5.3	Auto Pan	60
	4.5.4	Sequence	61
	4.5.5	Home	63
	4.5.6	Tilt Angle	64
	4.5.7	Privacy Mask	64
	4.5.8	Camera - Exposure	66
	4.5.9	Camera - WB	66
	4.5.10	Camera - Miscellaneous Setups Menu 1	67
	4.5.11	Camera - Miscellaneous Setups Menu 2	69
	4.5.12	Camera - Default	70
4.6	Logout		71
Арр	endix A: II	P Camera Specifications	72
Арр	endix B: Ir	ternet Security Settings	74
Арр	endix C: D	C Viewer Download Procedure	77
Арр	endix D: F	requently Asked Questions	79

# Chapter 1 1 Introduction

### Overview

The PLANET ICA-H652 is the outdoor speed dome Internet camera offering the next generation video compression – H.264. It is a perfect and effective surveillance solution for the bandwidth limited networks. The ICA-H652 features a 36x12 zooming (36x optical zoom, 12x digital zoom) with auto focus and auto iris. It offers fast, accurate and continuous 360 panning operations. The unparalleled surveillance functions of the ICA-H652 including 256 camera presets, 8 camera cruise configurations, and the motion detection function make it able to satisfy the demanding surveillance and remote monitoring applications.

The ICA-H652 provides Multi-profile function which can generate H.264 and M-JPEG video streaming simultaneously. Moreover, the resolution can be different from one user to another. This state-of-the-art design is considerable to fit in various network environments like traffic centers, shopping malls, railway stations, warehouses, airports, and production facilities.

The ICA-H652 supports Store-to-NAS function to work alone and save the video file to a NAS directly, which can save the PC resource and keep monitoring the environment with motion detection at 7/24. It takes surveillance using 2-Way audio so that the administrator can speak to anyone at ICA-H652 remote site with a speaker connected. The ICA-H652 can also be installed in most of bad outdoor environment and keep working properly with the IP-66 protecting cover.

### **Product Features**

- Multi-profile encoder supports H.264 and M-JPEG video compression simultaneously
- D1 / CIF Real-time resolutions (30fps)
- 360 degree continuous PAN, Tilt (0 ~ 180 degree) and 36x12 zooming (36X optical, 12X digital) adjustment
- High resolution quality pictures for day and night surveillance
- Built-in IR Cut Filter (ICR)
- 3D de-interlaced video image
- Wide Dynamic Range (WDR)
- 2D/3D Noise Reduction
- Store-to-NAS function to save video files without operating software
- 3GPP for 3G mobile remote applications, iPhone viewer support

- Supporting TCP/IP networking, SMTP e-mail and HTTP public network standards, the ICA-H652 can be applied and utilized to a mixed IP network environment
- Easy configuration: network administrators can configure and manage the ICA-H652 via Windows-based utility or web interface
- DDNS and FTP uploading supports more alternatives in surveillance network
- Motion Detection: the motion detection feature can monitor any suspicious movement in specific area
- IP-66 outdoor classification with heater and fan for rigorous environment

# Package Content

The contents of your product should contain the following items:

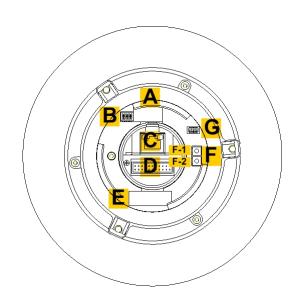
Dome Camera with Outdoor Mount Kit Compact Pendent Mount Kit Data Cable Waterproof Rubber Dome Cover M3/M5 Standard Screw M3/M5 Security Screw Lubricant Security Tool Bracket screws kit Quick installation guide User's manual CD Power Adapter

# **Physical Details**

## **Camera Substance**



# Switch Identification



lte	m	Description		
A None		None		
В	B Communication Switch (Reserved)			
C	C RJ45 Connector			
D	)	Data Cable 22-Pin Connector		
E		None		
F	F1	Reboot Button		

	F2	Factory Reset Button
G		ISP Connector (for FW upgrade)



DO NOT change the Speed Dome IP Camera's Communication Switch factory default settings.

# Chapter 2 Camera Setup and Cable Connections

## **Physical Installation Requirement**

Before installing or connecting the dome camera, please refer to this section and complete preparations for dome setups and various switch settings.

# 2.1 System Requirements

To perform the IP Camera via web browser, please ensure your PC is in good network connection, and meet system requirements as described below for appropriate setup and well view quality.

Items	System Requirement		
Dereenel Computer	1. Intel <sup>®</sup> Pentium <sup>®</sup> M, 2.16 GHz or Intel <sup>®</sup> Core <sup>™</sup> 2 Duo, 2.0 GHz		
Personal Computer	2. 2 GB RAM or more		
Operating System Windows Vista or Windows XP			
Web Browser         Microsoft Internet Explorer 6.0 or later			
Network Card	10Base-T (10 Mbps) or 100Base-TX (100 Mbps) operation		
Viewer	ewer ActiveX control plug-in for Microsoft IE		

# 2.2 Verify the Contents Inside Package Box

The package should contain the below items. If any item is missing or damaged, please contact the seller immediately.



Dome Camera with Outdoor Mount Kit



**Compact Pendent Mount** 



Data Cable



Waterproof Rubber



Dome Cover



Bracket screws kit



# 2.3 Physical Installation

	1. During the installation, please take care and avoid crash. That may cause the device damage or cause injury of the installer.
Caution	2. Please make sure the hardware had been located on the wall properly. If the hardware
	drops down, it is possible make someone injury or hurt. Please check the hardware again after the installation.
	3. Please according to the practical local power voltage to adjust the power switch. The
	wrong input voltage may cause the device damage.

## STEP 1.

Unpack the Dome Camera's package and take out the Dome Camera unit.



### STEP 2.

Rotate the Outdoor Mount Kit, and take it off from the camera body.



### STEP 3.

Attach the dome cover to the camera body. Before doing that, apply some lubricant on the cover's water-proof rubber to make the installation process smoother.







The tiny protrusion on the dome cover must align with one of the four holes on the dome body.

### STEP 4.

Gently pressure the dome cover downward with two hands on the side of it. DO NOT press the cover, as shown in the figure; this might cause damage to the camera body.



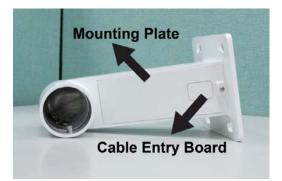
### STEP 5.

Use the M3 screw to screw the dome cover and camera body together.



### STEP 6.

Make a cable entry hole on the wall to recess the cables. Otherwise, users could push up the Cable Entry Board on the Compact Pendent Mount's Mounting Plate to place the cables, as shown in the photo below.



### STEP 7.

Fix the Compact Pendent Mount on the wall with proper screws and screw anchors.





The screws and screw anchors don't attach in package.

### STEP 8.

Attach the Waterproof Rubber to the Outdoor Wall Mount.



### STEP 9.

Pass the network and data cables through the Compact Pendent Mount with the Data Cable's 22-pin cable coming out of the outlet.





- 1. The network cable doesn't attach in package
- Please block the cable entry hole with the supplied sponge to avoid insects entering the Pendent Mount. The sponge can be placed in two ways as shown in the illustrations below.



### STEP 10.

Thread the cables through the Outdoor Mount Kit and join the Outdoor Mount Kit to the Compact Pendent Mount with the supplied screws and washers. Then adjust the Waterproof Rubber to the joint.





### STEP 11.

Use the safety hook hanging the camera, and connect the cables to the Dome Camera.

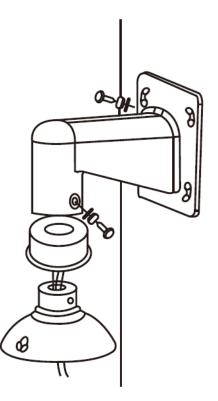




### STEP 12.

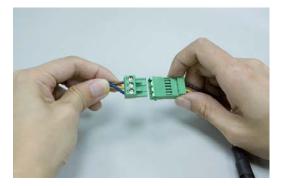
Join the Dome Camera to the Outdoor Mount Kit with the supplied M5 screw and washers.





### **STEP 13.**

Connecting the AC power adapter with Power Input connector of data cable.



Then according to the practical local power voltage to adjust the power switch, and connect the power cord with adapter and power outlet.







Use only the power adapter shipped with the unit to ensure correct functionality

### STEP 14.

Connecting the network cable with switch.



### **STEP 15.**

Set your computer's IP address to 192.168.0.x, where x is a number between 1 to 253 (except 20 where is being used for the camera by default). If you don't know how to do this, please ask your network administrator.

### **STEP 16.**

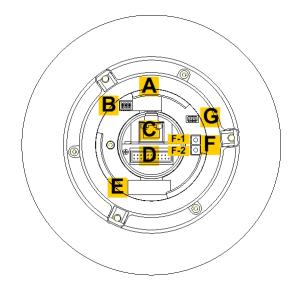
Use web browser (Internet Explorer 6.0 or above) to connect to 192.168.0.20 (type this address in the address bar of web browser). You'll be prompted to input user name and password: **admin** / null (without password).



## 2.4 Dome Camera Setups

Before connecting the IP Camera to other devices of IP Surveillance system, please complete the IP Camera's ID and communication switch settings. These switches are located on the bottom of the IP Camera.

# 2.4.1 Switch/Connector Definition



ltem		Description		
А	L .	None		
В	5	Communication Switch (Reserved)		
с		RJ45 Connector		
D		Data Cable 22-Pin Connector		
E		None		
F F1		Reboot Button		
F2		Factory Reset Button		
G		ISP Connector (for FW upgrade)		



DO NOT change the Speed Dome IP Camera's Communication Switch factory default settings.

# 2.4.2 Communication Switch Setting

Communication Switch	SW 1	Reserved	
	SW 2	Reserved	
	SW 3	Termination	
	SW 4	Line Lock	
	SW 5	Factory Default Reset	
123430	SW 6	Reserved	

Please do not change the default setting without qualified specialist or supplier's notice. As for the SW 3 and SW 4, they are used for termination and Line Lock adjustment respectively. The SW 5 is mainly used when users want t o restore the camera to the factory default status; moreover, once firmware upgrade is carried out, users also need to reset the SW 5 afterward.

# 2.5 Cables and Connections

The Dome Camera is supplied with one integrated 22-pin Data Cable for connecting with the power, video, and audio input & audio output cables. Please read the following sections thoroughly before making connections.

# 2.5.1 Cable Requirements

For operation, the Integrated Speed Dome IP Cameras require video and power cables as described below:

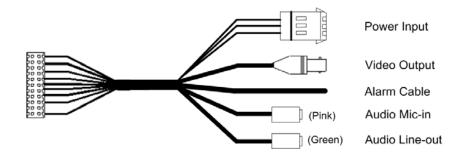
- The video cable sends video signals to a remote viewing site. Using a coaxial cable to send video signals is recommended.
- Power supply: DC 12V/AC 24V output voltage



Ensure power supply meets the Dome Camera's power requirement, or product impairment will occur. If any mistake happens, please contact with a qualified maintenance engineer.

## 2.5.2 22-Pin Data Cable

The Speed Dome IP Camera's Data Cables are illustrated respectively as shown below.



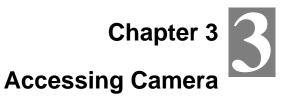
# 2.5.3 22-Pin Connector Definition

With the 22-pin connector, installers can simply connect the power and video cables to the IP Camera at once. Particularly, the alarm pins are serviceable for connecting alarm input and output devices, such as alarm sensors, sirens or flashing lights with the surveillance system. The Speed Dome IP Cameras' 22-pin connector definition will also be specified as follows.



Pin	Definition	Cable		
1	AC 24-1/DC (+)	20AWG		
2	ALM NC			
3	AC 24-2/DC (-)	20AWG		
4	ALM NO			
5	FG 20AWG			
6	ALM COM			
7	Audio in			
8	Audio out	24AWG		
9	Audio GND	247.00		
10	Audio GND			
11	ISOG			

Pin	Definition	Cable	
12	ALM-1		
13	ALM-3		
14	ALM-2		
15	ALM-4		
16	Reserved		
17	Reserved		
18	Reserved		
19	Reserved		
20	ALM GND		
21	VGND	24AWG	
22	Video	24700	



For initial access to the IP Camera, users can search the camera through the installer program: DeviceSearch.exe, which can be found in "DeviceSearch" folder in the supplied CD.

# 3.1 Device Search Software Setup

**Step 1:** Double click on the program **Planet Device Search.exe** (see the icon below); its window will appear as shown below. Then click the "Device Search" button.



🕑 Planet Device Se	arch					
C IP Relay			Device S			
Model	Proj	Name	IP	Port	Netmask	Мас

Step 2: The security alert window will pop up. Click "Run" to continue.

 Name:	Planet Device Se	arch.exe	
 Publisher:	Unknown Pub	lisher	
Туре:	Application		
From:	192.168.0.71		
		Run	Cancel

### 3.2 Device Search

Step 3: Click "Device Search" again, and all the finding IP devices will be listed in the page, as shown

in the figure below. The IP Camera's default IP address is: 192.168.0.20.

🕑 Planet Device Se	earch					
Search Method • Local Broadcast C IP Relay	TCP	Project Filter           ALL	1 device(s) foun Device S		ch	
Model	Proj	Name	IP	Port	Netmask	Мас
ICA-H652	ICA-H652	Planet Speed Dome IP Camera	192.168.0.20	80	255.255.255.0	00:30:4F:05:2B:F7

Step 4: Double click or right click and select "Browse" to access the camera directly via web browser.

🕑 Planet Device Se	earch					
Search Method Cocal Broadcast		Project Filter	1 device(s) foun		. 1	
C IP Relay	ITCP		Device S	lear	rch	
Model	Proj	Name	IP	Port	Netmask	Mac
ICA-H652	ICA-H652	Planet Speed Dome IP Camera	192.168.0.20	80	255.255.255.0	00:30:4F:05:2B:F7
			Detail Info. Browse <u>N</u> etwork Se	tup		

**Step 5:** Then the prompt window of request for entering default username and password (as shown below) will appear for logging in to the IP Camera.



The default login ID and password for the Administrator are:

Login ID	Password
admin	null (without password)



**NOTE:** ID and password are case sensitive.



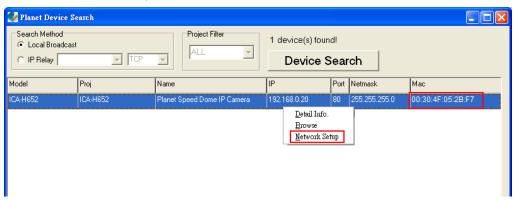
**NOTE:** It is strongly advised that administrator's password be altered for the security concerns. Refer to section <u>4.3.2 Security</u> for further details.

Additionally, users can change the IP Camera's network property, either DHCP or Static IP, directly in the device finding list. Refer to the following section for changing the IP Camera's network property.

# 3.3 Example of Changing IP Camera's Network Property

Users can directly change an IP Camera's network property, ex. from static IP to DHCP, in the finding device list. The way to change the IP Camera's network property is specified below:

**Step 1:** In the finding device list, click on the IP Camera that you would like to change its network property. On the selected item, right click and select "Network Setup." Meanwhile, record the IP Camera's MAC address, for future identification.



**Step 2:** The "Network Setup" page will come out. Select "DHCP," and press "Apply" button down the page.

🚱 Planet Device Search	
Search Method C Local Broadcast C IP Relay	TCP
	Device Search           Port         Netmask         Mac           Device Information         Port         Netmask         Mac           Model         ICA.H652         00:30:4F:05:2B:F7         F7           Name         Planet Speed Dome IP C         MAC         00:D0:89:05:2B:F7           Network Property         Static IP         IPP Address         192:168:0.254
	Netmask         255.255.0           DNS         0.0.0

**Step 3:** Click "OK" on the Note of setting change. Wait for one minute to re-search the IP Camera.

Note 🔀
Control package sent. Please try to re-search the device after one minute.
ОК

**Step 4:** Click the "Device Search" button to search all the devices. Then select the IP Camera with the correct MAC address. Double click on the IP Camera, and the login window will come out.

Search Method © Local Broadca © IP Relay	ast	Project Filter	1 device(s) fou Search		p	
lodel	Proj	Name	IP	Port	Netmask	Мас
CA-H652	ICA-H652	Planet Speed Dome IP Camera	192.168.0.105	80	255.255.255.0	00:30:4F:05:2B:F7

Step 5: Enter User name and Password to access the IP Camera.

### 3.4 Installing DC Viewer Software Online

For the initial access to the IP Camera, a client program, DC Viewer, will be automatically installed to your PC when connecting to the IP Camera.

If the Web browser doesn't allow DC Viewer installation, please check the Internet security settings or ActiveX controls and plug-ins settings (see <u>Appendix B: Internet Security Settings</u>) to continue the process.

The Information Bar (just below the URL bar) may come out and ask for permission to install the ActiveX Control for displaying video in browser (see the figure below). Right click on the Information Bar and select "**Install ActiveX Control...**" to allow the installation.

http://192.168.0.20/ te might require the following ActiveX control: 'install.cab' from 'Planet Technology Corporation'. Click here to install      Install ActiveX Control      What's the Risk?	iack • 🕥	- 🖹 🗟 🏠 🔎	Search 🔶 F	Favorites 🧭	10-2	3
Install ActiveX <u>C</u> ontrol	-					
	site might requ	uire the following ActiveX contro	ol: 'install.cab' fro	om 'Planet Techno	logy Corporati	
What's the Risk?						
						What's the Risk?
Home System Stream Information Bar Help			Home	System	Stream	Information Bar Help

Then the security warning window will pop up. Click "Install" to carry on software installation.

Click "Finish" to close the DC Viewer window when download is finished.



Once login to the IP Camera, users will see the Home page as shown below:



NOTE: The "talk" button below the screen only displays in ICA-HM126 Series IP Camera.

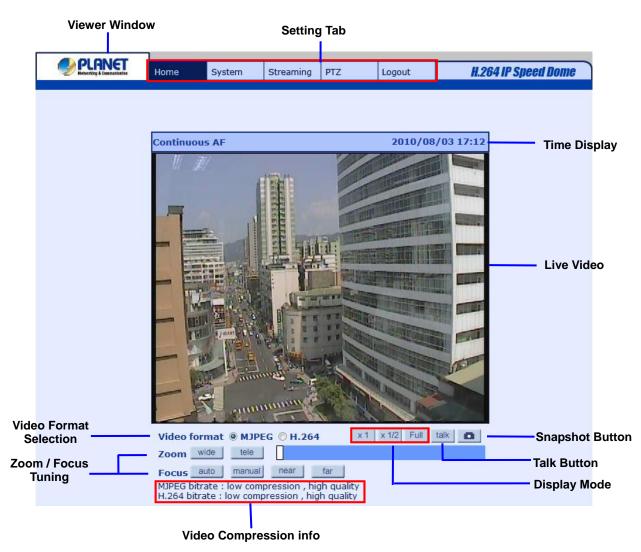
# 3.5 Administrator / User Privileges

"Administrator" represents the person who can configure the IP Camera and authorize user's access to the camera; "User" refers to whoever has access to the camera with limited authority, i.e. entering Home and Camera setting pages.

# Chapter 4 Configuration & Operation

The IP Camera is provided with a user-friendly browser-based configuration interface, and a free bundled CMS (Central Management System) for record and playback video. In this chapter, information about main page introduction, system related settings and camera settings will be described in detail.

## 4.1 Browser-based Viewer Introduction



The figure below shows the Home page of the IP Camera's Viewer Window.

There are five tabs: Home, System, Streaming, PTZ and Logout on the top of the viewer window.

### <u>Home</u>

Users can monitor live video of the targeted area.

### System setting

The administrator can set host name, system time, root password, network related settings, etc. Further details will be interpreted in section <u>4.3 System Related Settings</u>.

### Streaming setting

The administrator can modify video resolution and rotate type and select audio compression mode in this page.

### PTZ setting

Users can adjust various camera parameters such as Exposure, White Balance, Backlight Compensation, etc., and program functions including Preset, Cruise, Auto Pan, Sequence, etc.

### Logout

Click on the tab to re-login the IP Camera with another username and password.

### 4.2 Home Page

On the Home Page, users can view live video and operate Pan/Tilt/Zoom (PTZ) function. Additionally, users can select a video display format and image display size and adjust zoom ratio/focus length through related function buttons. All of these functions are described as follows:



### Screen Size Adjustment

Image display size can be adjusted to x1/2 and full screen via the related buttons. To switch between the normal view mode and full screen view mode, users can also move the cursor to the live video pane and right-clink; then the tab  $\boxed{\text{Normal View}}$  /  $\boxed{\text{fullscreen}}$  will display over the video pane as shown in the figure below. Left click on either the "**Normal View**" or "**Full screen**" tab for setting image display mode.

#### Pan/Tilt Control

Users can implement pan/tilt control by first moving the cursor to the live video pane; then left click and drag the pointer + in any direction.

#### **Optical/Digital Zoom Control**

In Normal View display mode, users can implement zoom in/out by first moving the cursor to the live video pane and then rotating the mouse wheel. As in Full Screen mode, users can directly rotate the mouse wheel to zoom in/out on the image. Digital zoom is only available when the function is activated and which is set in "Camera-Misc1" page under the "PTZ" tab; see section <u>4.5.10 Camera - Miscellaneous Setups Menu 1</u> for details. When the camera reaches the limit of its optical range, it will automatically switch to digital zoom.

#### <u>Talk</u>

Talk function allows the local site talks to the remote site. Please refer to section 4.3.2 Security: Add user > Talk/Listen for further details. This function is only open to "User" who has been granted this privilege by the Administrator.

#### **Snapshot**

Press the **D** button, and the JPEG snapshots will automatically be saved in the appointed place. The default place of saving snapshots is: C:\. To change the storage location, please refer to section <u>4.3.9 Snapshot</u> for further details.

### Zoom Adjustment

Click on the buttons wide/tele to control zoom in/out. Move the cursor closely onto the zoom adjustment bar and click on the desired position to change the room ratio.

oom wide tele
---------------

### Focus Adjustment

Focus auto	manual	near	far
------------	--------	------	-----

### • Auto Focus (Continuous AF):

Click on the "**auto**" button to enable AF mode. In this mode, the camera will keep in focus automatically and continuously regardless of zoom changes or any view changes. The Focus status will also be displayed above the live video pane as shown below.



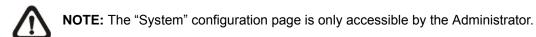
### Manual Focus:

Click on the "**manual**" button, and users can adjust focus manually via "**near**" and "**far**" buttons. The status will also be displayed above the screen as shown below.



# 4.3 System Related Settings

The figure below shows all categories under the "**System**" tab. Each category in the left column will be explained in the following sections.



	PLANE I Helverking & Communication	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome		
Þ	System	System							
	Security	Host Name	:	Planet Speed	Dome IP Carr	nera			
	Network	Time zone	:	GMT+00:00 Ga	mbia, Liberia,	Morocco, Engla	and 💌		
	DDNS	Sync wit	h compute	er time					
	Mail		PC date:	2010/08/03	[yyyy/mm/do	d]			
	FTP		PC time:	18:37:39	[hh:mm:ss]				
	Application	🔘 Manual							
	Snapshot		Date:	2007/01/01	[yyyy/mm/do	d]			
	View log file		Time:	00:00:00					
	View user information	O Sync wit	Sync with NTP server						
	View parameters	N	[host name or IP address]						
	Factory default	Undat	te interval:	Every hour	/				
	Software version	opuu	to interval.	Save					
	Software upgrade			Save					

# 4.3.1 Host Name and System Time Setting

Press the first category: <System> in the left column; the page is shown as below.

	Q		1.2	216	519		
	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome	
System	System						
Security	Host Name	e:	Planet Speed	Dome IP Can	nera		
Network	Time zone	:	GMT+00:00 Ga	ambia, Liberia,	Morocco, Engla	and 💌	
DDNS	Sync with the second	th comput	er time				
Mail		PC date:	2010/08/03	[yyyy/mm/d	d]		
FTP		PC time:	18:37:39	[hh:mm:ss]			
Application	🔘 Manual						
Snapshot		Date:	2007/01/01	[yyyy/mm/d	d]		
View log file		Time:	00:00:00	[hh:mm:ss]			
View user information	○ Sync with NTP server						
View parameters	N	ITP server:	[host name or IP address]				
Factory default				_			
Software version	Upda	te interval:	Every hour	*			
Software upgrade			Save				

### Host Name

The name is for camera identification. If Motion Detection function is enabled and is set to send alarm message by Mail/FTP, the host name entered here will display in the alarm message.

### Time Zone

Select the time zone you are in from the drop-down menu.

### Sync with Computer Time

Select the item, and video date and time display will synchronize with the PC's.

#### <u>Manual</u>

The Administrator can set video date, time and day manually. Entry format should be identical with that shown next to the enter fields.

#### Sync with NTP server

Network Time Protocol (NTP) is an alternate way to synchronize your camera's clock with a NTP server. Please specify the server you wish to synchronize in the enter field. Then select an update interval from the drop-down menu. For further information about NTP, please see the web site: **www.ntp.org**.

### 4.3.2 Security

Click the category: <Security>, and the page is shown as the figure below.

		Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome
•	System Security	Security admin Pa	ssword				
	Network DDNS Mail	(	admin passwo Confirm passwo		••••	Save	
	FTP Application Snapshot	Add User	User nan User passwo			]	
	View log file View user information View parameters		<ul><li>✓ I/O access</li><li>☐ Talk</li></ul>		era control n	Add	
	Factory default Software version Software upgrade	Manage I		no user -	- V Delete	Edit	

### Root password

Change the administrator's password by inputting the new password in both text boxes. The input characters/numbers will be displayed as dots for security purposes. After clicking <Save>, the web browser will ask the Administrator for the new password for access. The maximum length of the password is 14 digits.



NOTE: The following characters are valid: A-Z, a-z, 0-9, !#\$%&'-.@^\_~.

### Add user

Type the new user's name and password and click <Add> to add the new user. Both user name and password can be up to 16 characters. The new user will be displayed in the user name list. There is a maximum of twenty user accounts. Each user can be assigned the privileges of "**Camera control**" and/or "**Listen**".

### • I/O access

This item supports fundamental functions that enable users to view video when accessing to the camera.

### Camera control

This item allows the appointed User to change camera parameters on the Camera Setting page.

### • Talk / Listen

Talk and Listen functions allow the appointed user in the local site (PC site) communicating with, for instance, the administrator in the remote site.

### Manage User

### Delete user

To delete a user, pull down the user list, and select the user name you wish to delete. Then click <Delete> to remove it.

### Edit user

Pull down the user list and select a user name. Click <Edit> to edit the user's password and privilege.



**NOTE:** It is required to enter the User password as well as select the function open to the user. When finished, click <Save> to modify the account authority.

🗿 http://192.168.7.234/k	angl <i>is</i> erver_editaccount.html - Micr 🔳 🗖 🗙
User name User password	[User]
<ul> <li>✓ I/O access</li> <li>□ Talk</li> <li>Save</li> </ul>	Camera control

## 4.3.3 Network

Click <Network> in the left column, and the page will display as shown below.

		Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome			
	System	Network								
	Security	⊖ Get IP a	ddress autom	natically						
•	Network	Use fixed IP address     General								
	DDNR		ess	192	.168.0.20					
	Mail	Subnet	mask	255	.255.255.0					
	FTP	Default gateway			.168.0.254					
	Application	Primary DNS			0.0					
	Snapshot	Second	ary DNS	0.0.	0.0	7				
	View log file	Web Server port		80						
	View user information				ive					
	View parameters									
	Factory default	Advance	1							
	Software version	RTSP	port	554						
	Software upgrade	MJPEG over HTTP port			8					
				Sa	ive					
		UPnP Set	-							
		🗹 Ena	ble UPnP							
		Enable UPnP port forwarding								
		Friend	y name	ICA-	H652					
				Sa	ive					

Users can choose to use fixed IP address or dynamic (DHCP) IP address. The following is descriptions for the two ways of setting IP address.

### Get IP address automatically (DHCP)

The camera's default setting is "**Use fixed IP address**". Please refer to the previous section <u>Chapter 3</u>. <u>Accessing Camera</u> for logging in with the default IP address.

If select "**Get IP address automatically**", after the IP Camera restarts, users can search it through the installer program: DeviceSearch.exe, which can be found in "DeviceSearch" folder in the supplied CD.



**NOTE:** Please make the record of the IP Camera's MAC address, which can be found in the label of the camera, for identification in the future.

### Use fixed IP address

To setup static IP address, select "**Use fixed IP address**" and move the cursor to the IP address blank (as indicated below) and insert the new IP address, ex. 192.168.0.250; then go to the Default gateway (explained latter) blank and change the setting, ex. 192.168.0.250. Press "Save" to confirm the new setting.

		Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome		
	System	Network							
	Security	⊖ Get IP a	ddress autom	atically					
•	Network	<ul> <li>Use fixe</li> <li>General</li> </ul>	d IP address						
	DDNS	IP add	ress	192	168.0.20				
	Mail	Subnet mask			.255.255.0				
	FTP				.168.0.254				
	Application	Primary DNS			0.0				
	Snapshot	Secondary DNS		0.0.	0.0				
	View log file	Web Server port		80					
	View user information	· ·		Sa	ive				
	View parameters								
	Factory default	Advance	d						
	Software version	RTSP port MJPEG over HTTP port							
	Software upgrade				8				
				Sa	ive				
		UPnP Set	-						
			able UPnP						
		Enable UPnP port forwarding							
		Friend	ly name	ICA-	H652				
				Sa	Save				

When using static IP address to login to the IP Camera, users can access it either through "DeviceSearch" software (see <u>Chapter 3. Accessing Camera</u>) or input the IP address in the URL bar and press "Enter".

File E	dit View	Favorites	Tools	Hel	P			
G Ba	ck • 🕑	) - 🗙	2		🔎 Search	📌 Favorites	Ø	🔗 • 🍓 🔁
Address	192.16	8.0.250						

### <u>General</u>

### • IP address

This is necessary for network identification.

### Subnet mask

It is used to determine if the destination is in the same subnet. The default value is "255.255.255.0".

### • Default gateway

This is the gateway used to forward frames to destinations in different subnet. Invalid gateway setting will fail the transmission to destinations in different subnet.

### • Primary DNS

Primary DNS is the primary domain name server that translates hostnames into IP addresses.

### Secondary DNS

Secondary DNS is a secondary domain name server that backups the primary DNS.

#### • Web Server port

The default web server port is 80. Once the port is changed, the user must be notified the change for the connection to be successful. For instance, when the Administrator changes the HTTP port of the IP Camera whose IP address is 192.168.0.100 from 80 to 8080, the user must type in the web browser "http://192.168.0.100:8080" instead of "http://192.168.0.100".

#### <u>Advanced</u>

#### RTSP port

RTSP port could be set from 1 to 65535. (Normal Setting Port: 554, 1024 ~65535)

# MJPEG over HTTP port

The default setting of HTTP Port is 8008; setting range: 1024 ~65535.



**NOTE:** Be aware to choose the different port from the one set for the web server port.

# 4.3.4 DDNS

Dynamic Domain Name System (DDNS) allows a host name to be constantly synchronized with a dynamic IP address. In other words, it allows those using a dynamic IP address to be associated to a static domain name so others can connect to it by name.

		8			0.0	516	
		Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome
	System	DDNS					
	Security	Dynamic Use Dyna		You Want To	Use Your D	ONS Account	
	Network	ose byne		rou mane ro	000 1001 01		-
Þ	DDNS	Enable	DDNS				
	Mail	Provid	ler	Dy	nDNS.org(Dy	namic) 🚩	
	FTP	Host n	ame				
	Application						
	Snapshot	Userna	ame/E-mail				
	View log file	Passw	ord/Key				
	View user information			<b></b>	Save		
	View parameters				Jave		
	Factory default						
	Software version						
	Software upgrade						

#### Enable DDNS

Check the item to enable DDNS.

#### Provider

Select one DDNS host from the provider list.

#### Host name

Enter the registered domain name in the field.

#### Username/E-mail

Enter the username or e-mail required by the DDNS provider for authentication.

#### Password/Key

Enter the password or key required by the DDNS provider for authentication.

#### 4.3.5 Mail

The Administrator can send an e-mail via Simple Mail Transfer Protocol (SMTP) when motion is detected. SMTP is a protocol for sending e-mail messages between servers. SMTP is a relatively simple, text-based protocol, where one or more recipients of a message are specified and the message text is transferred. The configuration page is shown as follows:

		2	_				-	
	Metworking & Commanicative	Home	System	Streaming	PTZ	Logout	H.26	4 IP Speed Dome
	System	Mail						
	Security	SMTP		_				
	Network	1st SMT	FP (mail) serv	rer				
	DDNS	1st SMT	FP (mail) serv	er port 2	5			
•	Mail	1st SMT	rP account na	ame				]
	FTP	1st SMT	FP password					]
	Application	1st reci	pient email a	ddress				]
	Snapshot	2nd SM	TP (mail) ser	ver				]
	View log file	2nd SM	TP (mail) ser	ver port 2	5			]
	View user information	2nd SM	TP account r	name				]
	View parameters	2nd SM	TP password					]
	Factory default	2nd rec	ipient email a	iddress				]
	Software version	Sender	email addres	iS				]
	Software upgrade				Save			

Two sets of SMTP can be configured. Each set includes SMTP Server, Account Name, Password and E-mail Address settings. For SMTP server, contact your network service provider for more specific information.

#### 4.3.6 FTP

The Administrator can set as sending alarm message to a specific File Transfer Protocol (FTP) site when motion is detected. Users can assign alarm message to up to two FTP sites. The FTP setting page is shown below. Enter the FTP details, which include server, server port, user name, password and remote folder, in the fields. Press "Save" when finished.

		Home	System	Streaming	PTZ	Logout	H.20	64 IP Speed Dome			
	System	FTP									
	Security	FTP Duilt in		ort Dr	21						
	Network		FTP server p server					1			
	DDNS	1st FTF	o server port	2'	l						
5	Mail FTP	1st FTF	o user name					]			
	Application	1st FTF	password								
	Snapshot		P remote folde								
	View log file		FTP passive P server	mode				]			
	View user information	2nd FT	P server port	21	I			-			
	View parameters Factory default	2nd FT	P user name					]			
	Software version		P password					]			
	Software upgrade		P remote fold FTP passive								
				_	Save						

# 4.3.7 Application (Alarm Settings)

The Speed Dome IP Camera supports 5 alarm inputs and 1 alarm output. Please make sure the alarm connections are properly wired before starting to configure alarm related settings on this "Application" page. Please refer to the pin definition table below for alarm system wiring.

~	
2	
1	21

Pin	Definition	Cable		Pin	Definition	Cable	
1	AC 24-1/DC (+)	20AWG		12	ALM-1		
2	ALM NC			13	ALM-3		
3	AC 24-2/DC (-)	20AWG		14	ALM-2		
4	ALM NO			15	ALM-4		
5	FG	20AWG		16	Reserved		
6	ALM COM			17	Reserved		
7	Audio in			18	Reserved		
8	Audio out	24AWG		19	Reserved		
9	Audio GND	24AVVG	2		ALM GND		
10	Audio GND			21	VGND	24AWG	
11	ISOG			22	Video	247.00	

		Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome
	System	Applicati	on Pin Selection				
	Security	Alarin P			ctions		
	Network				71	Vone	
	DDNS	3	3. No	one l	None N	None None	
	Mail	4	I. No	one l	None N	None	
	FTP	Edi	t				
Þ	Application						
	Snapshot						
	View log file						
	View user information						
	View parameters						
	Factory default						
	Software version						
	Software upgrade						

#### Alarm Pin Selection

Select an alarm pin which is to be configured from the "Alarm Pin Selection" field. Then press the button "Edit" below the field to carry on alarm programming.

# Alarm Status Settings

The specific alarm pin's property can be programmed in this section as shown below.

		2						
	PLINCI Hetwerting & Communication	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome	
	System	Applicatio	n					
	Security	Alarm Pi	n Selectio	n				
		Alarn	n Sv	witch T	Type A	ctions		
	Network	1.				None None		
	DDNS	2.				None		
	Mail	4.	N	lone N	lone I	None		
	FTP	Edit						
Þ	Application	Alarm Pir	n1 Status					
	Snapshot	Alarm S	Switch					
	View log file	Alarm S	witch Off	~	Alarm Ty	ype Normal cl	lose 👻	
	View user information	Action						
	View parameters	🗹 Ena	ble Alarm o	output				
	Factory default	📃 Sen	d Message	by FTP		Send	d Message by E-Mail	
		Upload Image by FTP Upload Image by E-Mail						
	Software version	📃 Fun	ction Pres	et 🗸				
	Software upgrade	Tim	e:					
		File Na	me					
		File nar	ne : image.	jpg				
		Add	date/time s	uffix				
				number suffix (I		m value)		
				number suffix u	ip to 0	and the	en start over	
		Ove	rwrite					
		Save						
							×	

#### Alarm Switch

The Administrator can enable or disable the alarm function.

#### Alarm Type

Select an alarm type, "Normal close" or "Normal open," that corresponds with the alarm application.

#### Alarm Output

Define alarm output signal "high" or "low" as the normal alarm output status according to the current alarm application.

#### Action (Multi-option)

The Administrator can specify alarm actions that will take when the alarm is triggered. All options are listed as follows:

• Enable Alarm Output Select the item to enable alarm relay output.

#### • Send Alarm Message by FTP/E-Mail

The Administrator can select whether to send an alarm message by FTP and/or E-Mail when an alarm is triggered.

#### • Upload Image by FTP

Select this item, and the Administrator can assign a FTP site and configure various parameters as shown in the figure below. When the alarm is triggered, event images will be uploaded to the appointed FTP site.

	PLANET	6	_								
	Metworking & Communicative	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome				
	System	Applicatio									
	Security		n Selection			A					
	Network	Alarr	n SW No		<b>ype</b> Ione	Actions None					
	DDNS	2.			lone	None					
		3. 4.			lone lone	None None					
	Mail			ne r	vone	None					
	FTP	P Edit									
Þ	Application	Alarm Pin1 Status									
	Snapshot	Alarm	Switch								
	View log file	Alarm Switch Off  Alarm Type Normal close									
	View user information	Action		1							
		🗹 Ena	able Alarm ou	tout							
	View parameters		Send Message by FTP								
	Factory default		oad Image by			1	oad Image by E-Mail				
	Software version		P address	FTP1	*		ad mage by E man				
	Software upgrade		e-trigger buffe								
			st-trigger buf								
			Continue im								
			Upload for		sec						
				uring trigger a							
			Image frequ	ence Max.	≚ fps						
		🗹 Fur	nction Preset	t 🖌							
		Tim	e:				×				

#### • Upload Image by E-Mail

Select this item, and the Administrator can assign an e-mail address and configure various parameters as shown in the figure below. When the alarm is triggered, event images will be sent to the appointed e-mail address.

	Home S	ystem Stream	ning PTZ	Logout	H.264 IP Speed Dome
System Security Network DDNS Mail FTP Application	Application Alarm Pin 3 Alarm 1. 2. 3. 4. Edit Alarm Pin1	Selection Switch None None None None	Type None None None None	Actions None None None None	R.204 IF Sp66U DUIII6
Snapshot View log file View user informatio View parameters Factory default Software version Software upgrade	n Action ♥ Enable ○ Send ○ Uploar	itch tch Off  Control of Control	Alar	☑ Upla E-I Pra	nd Message by E-Mail oad Image by E-Mail Mailaddress E-Mail 1 v e-trigger buffer 5 frames v ost-trigger buffer 5 frames v



**NOTE:** Make sure SMTP or FTP configuration has been completed. See section <u>4.3.5 Mail</u> and <u>4.3.6 FTP</u> for further details.

#### • Function

Assign a camera function: Preset, Sequence, Autopan or Cruise, and specify a Preset Point/Sequence Line/Autopan Path/Cruise Line for the camera to perform at an alarm occurrence.



**NOTE:** Please refer to the sections through <u>4.5.1 Preset Programming</u> to <u>4.5.4 Sequence Line</u> <u>Programming</u> for details of Preset Point / Sequence Line / Autopan Path / Cruise Line setups.

If the selected function is "Preset," it is required to enter its dwell time (1  $\sim$  256 sec.) in the corresponding field as shown below. When the alarm is triggered, the camera will go to the selected Preset Point and stay there for a user-defined period of time. As for other function modes, the camera will keep executing the specified function; to stop the performance, simply change the camera's status.

	PLANET	6								
	Webworking & Communication	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome			
	System	Applicatio	on n Selection							
	Security	Alarr			Type A	Actions				
	Network	1.			71	None				
	DDNS	2. 3.	No	one N	lone	None None				
	Mail	4.	No	one N	lone	None				
	FTP	Edit	]							
•	Application	Alarm Pi	n1 Status				<u></u>			
	Snapshot	Alarm	Switch							
	View log file		Switch Off 🗸		Alarm T	ype Normal cl	lose 🗸			
	View user information	Action								
	View parameters	Enable Alarm output								
	Factory default	Send Message by FTP Send Message by E-Mail								
	Software version	Upload Image by FTP								
	Software upgrade		nction Prese							
	Software upgrade	Tim	e. Seque	ence						
		File Na	me Autop me ir Cruise							
			date/time su							
					no maximur	m value)				
		<ul> <li>Add sequence number suffix (no maximum value)</li> <li>Add sequence number suffix up to </li> </ul>								
		O Overwrite								
_		Save	)							
			,				×			



**NOTE:** The dwell time is only adjustable when selecting **Preset** as the alarm action. When the dwell time is up, the Speed Dome IP Camera will go back to its trigger position and recheck alarm pin status.

#### File Name

Enter a file name in the blank, ex. image.jpg. The uploaded image's file name format can be set in this section. Please select the one that meets your requirements.

#### • Add date/time suffix

File name: imageYYMMDD\_HHNNSS\_XX.jpg

- Y: Year, M: Month, D: Day
- H: Hour, N: Minute, S: Second
- X: Sequence Number

#### • Add sequence number suffix (no maximum value)

File name: imageXXXXXXX.jpg

X: Sequence Number

#### • Add sequence number suffix (limited value)

File Name: imageXX.jpg X: Sequence Number The file name suffix will end at the number being set. For example, if the setting is up to "10," the file name will start from 00, end at 10, and then start all over again.

#### • Overwrite

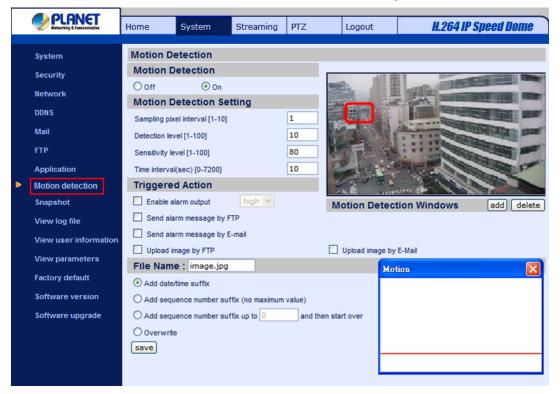
The original image in the FTP site will be overwritten by the new uploaded file with a static filename.

#### <u>Save</u>

After complete all the settings mentions above, please click on the Save button to save all the settings in this page.

# 4.3.8 Motion Detection

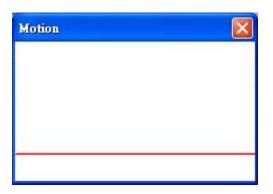
Motion Detection function allows detecting suspicious motion and triggering alarms when motion volume in the detected area reaches/exceeds the determined sensitivity threshold value.



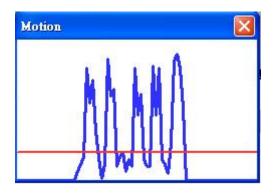
In the Motion Detection setting page, there is a frame (**Motion Detection Window**) displayed on the Live View Pane. The Motion Detection Window is for defining the motion detection area. To change the size of the Motion Detection Window, move the mouse cursor to the edge of the frame and draw it outward/inward. Moving the mouse to the center of the frame can shift the frame to the intended location.

Up **10** Motion Detection Windows can be set. Press the "add" button under the Live View Pane to add a Motion Detection Window. To cancel a Motion Detection Window, move the mouse cursor to the selected Window, and click on the "delete" button.

If Motion Detection function is activated, the pop-off window (Motion) with indication of motion will be shown.



When motion is detected, the signals will be displayed on the Motion window as shown below.



Detailed settings of Motion Detection are described as follows:

#### Motion Detection

You will be able to turn on/off Motion Detection in System section. Default setting is Off.

#### **Motion Detection Setting**

Users could adjust various parameters of Motion Detection in this section.

• Sampling pixel interval [1-100]:

The default value is 10, which means system will take one sampling pixel for every 10 pixel.

• Detection level [1-100]:

The default level is 10. The item is to set detection level for each sampling pixel; the smaller the value, the more sensitive it is.

• Sensitivity level [1-100]:

The default level is 80, which means if 20% or more sampling pixels are detected differently, system will detect motion. The bigger the value, the more sensitive it is. Meanwhile, when the value is bigger, the red horizontal line in the motion indication window will be lower accordingly.

• Time interval (sec) [0-7200]:

The default interval is 10. The value is the interval between each detected motion.

Users could adjust the parameter and level of Motion Detection Settings.

- Sampling pixel interval [1-100]: Default value: 10
- Detection level [1-100]: Default value: 10
- Sensitivity level [1-100]: Default value: 80
- Time interval (sec) [0-7200]: Default value: 10

Total four actions could be selected once the motion is detected.

# Triggered Action (Multi-option)

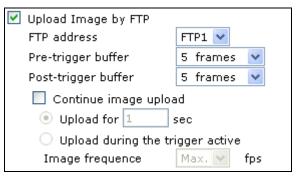
The Administrator can specify alarm actions that will take when motion is detected. All options are listed as follows:

#### • Send Alarm Message by FTP/E-Mail

The Administrator can select whether to send an alarm message by FTP and/or E-Mail when motion is detected.

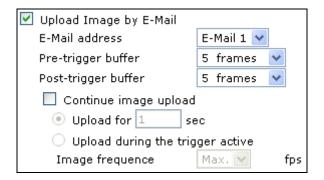
# • Upload Image by FTP

Select this item, and the Administrator can assign a FTP site and configure various parameters as shown in the figure below. When motion is detected, event images will be uploaded to the appointed FTP site.



#### • Upload Image by E-Mail

Select this item, and the Administrator can assign an e-mail address and configure various parameters as shown in the figure below. When motion is detected, event images will be sent to the appointed e-mail address.





**NOTE:** Make sure SMTP or FTP configuration has been completed. See section <u>4.3.5 Mail</u> and <u>4.3.6 FTP</u> for further details.

# File Name

The uploaded image's filename format can be set in this section. Please select the one that meets your requirements.

# <u>Save</u>

Click the Save button to save all the Motion Detection settings mentioned above.

# 4.3.9 Snapshot

The IP Camera supports JPEG snapshot function. Users can specify a storage location for the snapshots. The default setting is: C:\. Once confirm the setting, press "Save," and all the snapshots will be saved in the designate location.



**NOTE:** Make sure the selected file path contains valid characters such as letters and numbers.

		9			2.0	2.0	
	PLANET Herverting & Communication	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome
	System	Snapshot					
	Security	Snapshot					
	Network		ges stored at:	C:\		Select	
	DDNS	Save	J				
	Mail						
	FTP						
	Application						
•	Snapshot						
	View log file						
	View user information						
	View parameters						
	Factory default						
	Software version						
	Software upgrade						

# 4.3.10 View Log File

Click on the link to view the system log file. The content of the file provides useful information about configuration and connections after system boot-up.

0	PLANET Hexeriting & Constantion	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome
Sec Net DDN Mai FTP App Sna Sna Vie Vie	I	System I [Mo [Mo [Mo [Mo [Mo [Mo [Mo [Mo [Mo [Mo		6:00 2007] 6:06 2007] 6:06 2007] 6:06 2007] 6:06 2007] 2:33 2007] 2:37 2007] 0:59 2007] 5:46 2007]	Network interf Network interf Host IP = 192 Subnet Mask Sateway = 19 WAC address connect by ac connect by ac connect by ac	face initialized face initialized 168.0.134 = 255.255.25 22.168.0.1 = 00:D0:89:0 dmin@192.16 dmin@192.16 dmin@192.16 dmin@192.16	i start t end 55.0 05:2B:F7 8.0.207 8.0.207 8.0.223 8.0.223 8.0.207
Software version Software upgrade							×

# 4.3.11 View User Information

The Administrator can view each added user's login information and privileges (see 4.3.2 Security).

#### View User Login Information

All the users in the network will be listed in the "User information" zone, as shown below. As the figure below shows:

#### User: 4321

It indicates that one user's login username is: User and the password is: 4321.

# View User Privilege

Press "get user privacy" down the page, and the Administrator can view each user's privileges.

1	PLANET	6				44	
	Verwerking & Communication	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome
	System	User info					
	Security		nin:1:1:1:1 r:1:1:0:1				
	Network						
	DDNS						
	Mail						
	FTP						
	Application						
	Snapshot						
	View log file						
	View user information						
	View parameters						
	Factory default						
	Software version						
	Software upgrade						
							~
		<					>
			get user infor	mation		get user pri	vacy

As the figure above shows:

#### User: 1:1:0:1

1:1:0:1= I/O access: Camera control: Talk: Listen (see <u>4.3.2 Security</u>)

I/O access	Camera control
Talk	🗹 Listen

Therefore, it denotes the user is granted privileges of I/O access, Camera control and Listen.

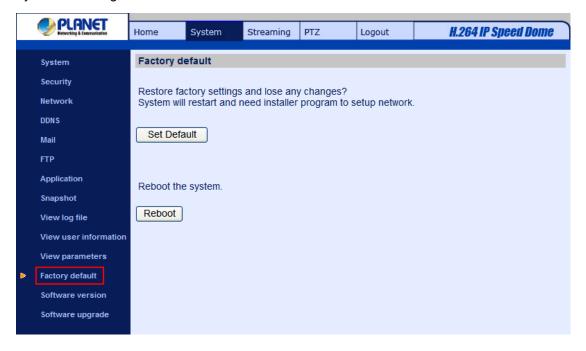
# 4.3.12 View Parameters

Click on this item to view the entire system's parameter setting.

		6										
	Helworking & Communication	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome					
	System	Paramet	Parameter list									
	Security	Ne	Network PTZ Initial Configuration File									
	Network	==	======================================									
	DDNS	==		============								
	Mail		oosure mode =									
	FTP	sh	utter speed =	<6>								
	Application	iris	iris value = <6>									
	Snapshot	bri	ght value = <1	1>								
	View log file	ma	inual value = <									
	View user information	ma	inual gain = <6									
>	View parameters	wh	ite balance mo	ode = <auto></auto>								
	Factory default Software version	wh	ite balance rg	ain = <10>								
	Software version	wh	ite balance bg	ain = <19>								
	backlight compensation = <off></off>											

# 4.3.13 Factory Default

The factory default setting page is shown as below. Follow the instructions to reset the IP Camera to factory default setting if needed.



# Set Default

Click on the "Set Default" button to recall the factory default settings. Then the system will restart in 30 seconds.



NOTE: The IP address will be restored to default.

# <u>Reboot</u>

Click on the "Reboot" button, and the system will restart without changing current settings.

# 4.3.14 Software Version

The current software version is displayed in the software version page, which is shown as the figure below.

		Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome
	System	Software	version				
	Security						
	Network						
	DDNS						
	Mail						
	FTP						
	Application						
	Snapshot	The softwa	are version is	i20100802N	S		
	View log file						
	View user information						
	View parameters						
	Factory default						
•	Software version						
	Software upgrade						

# 4.3.15 Software Upgrade

Software upgrade can be carried out in the "Software Upgrade" page as shown below.

		Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome				
	System	Upgrade									
	Security	Follow Th	Follow These Steps To Do The Software Upgrade								
	Network										
	DDNS	Step1:									
	Mail	Uplo	Upload the binary file								
	FTP	Browse									
	Application	Step2:									
	Snapshot			you want to up	ograde						
	View log file		and.jffs2	*							
	View user information	Step3:	the upgrade	button to sta	t the upgrade						
	View parameters	CIICK	the upgrade	button to sta	n ne upgraue	e process					
	Factory default		rade								
	Software version										
•	Software upgrade										



**NOTE:** Make sure the upgrade software file is available before carrying out software upgrade.

The procedure of software upgrade is like the following:

	PLANET					1					
	Wetworking & Communication	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome				
		_									
	System	Upgrade	Upgrade Follow These Steps To Do The Software Upgrade Step1:								
	Security	Follow The									
	Network										
	DDNS										
	Mail	· · ·	the binary		7						
	FTP		C:\ICA-H652\userland.jffs2 <mark>[Browse.]</mark>								
	Application	Step2:									
	Snapshot			ou want to up	ograde						
	View log file	Step3:	and.jffs2	~							
	View user information		the upgrade	button to star	t the upgrad	to procoss					
	View parameters	CIICK	ine upgrade	Dutton to Sta	it the upgrad	ie process					
	Factory default	Upa	ade								
	Software version										
Þ	Software upgrade										

Step 1: Click "Browse" and select the binary file to be uploaded, ex.Userland.jffs2.

 $\triangle$ 

**NOTE:** Do not change the upgrade file name, or the system will fail to find the file.

**Step 2:** Pull down the upgrade binary file list and select the file you want to upgrade; in this case, select "userland.jffs2."

**Step 3:** Press "Upgrade". The system will first check whether the upgrade file exists or not, and then begin to upload the upgrade file. Subsequently, the upgrade status bar will display on the page. When it runs to 100%, the upgrade process is finished.

	PLANET	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome				
			De antes e contras de professas								
	System	Upgrade									
	Security										
	Network	-	System is in Process of upgrade,								
	DDNS	Please Do	Please Don't Power-Off The System And Change The Page.								
	Mail										
	FTP		Upgrade now.Please wait								
	Application										
	Snapshot				7%	5					
	View log file										
	View user information										
	View parameters										
	Factory default										
	Software version										
•	Software upgrade										

After the upgrade process is finished, the viewer will return to Home page.

Step 4: Close the video browser.

**Step 5:** Click "Control Panel", and then double click "Add or Remove Programs." In the "Currently install programs" list, select "DCViewer" and click the button "Remove" to uninstall the existing DC Viewer.

**Step 6:** Open a new web browser, re-login the IP Camera, and then allow the automatic download of DC Viewer.

# 4.4 Video and Audio Streaming Settings

Press the tab "Streaming" in the top of the page, and the configurable video and audio items will display in the left column. In Streaming, the Administrator can configure specific video resolution, video compression mode, video protocol, audio transmission mode, etc. Further details of these settings will be specified in the following sections.

# 4.4.1 Video Resolution and Deinterlacing Function

On the Video Format page, users can set video resolution and activate intra field de-interlacing function.

	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome
<ul> <li>Video Format</li> <li>Video Compression</li> <li>Video OCX Protocol</li> <li>Video Frame Skip</li> <li>Audio</li> </ul>	Video For Video Res Note : Image	mat solution : ⊙ H.264 D1 ○ H.264 D1 ○ H.264 D1 ○ H.264 D1 Save sattachment ected.	(25fps) + MJ (25fps) + MJ (25fps) + H.2 (25fps) + H.2	PEG D1 (25f) PEG CIF (25i 264 D1 (25fp: 264 CIF (25fp	ps) fps) s) vs)	/hile MJPEG streaming
	GOV Setti	○ Inter Field	d Deinterlacin d Deinterlacin V Length : [			

#### Video Resolution

The IP Camera provides various video resolutions like the following:

- H.264 D1 (25fps) + MJPEG D1 (25fps)
- H.264 D1 (25fps) + MJPEG CIF (25fps)
- H.264 D1 (25fps) + H.264 D1 (25fps)
- H.264 D1 (25fps) + H.264 CIF (25fps)

#### Video Deinterlace

The IP Camera supports de-interlacing function. Users can either choose to activate de-interlacing function or disable the function by selecting a mode from the list as shown below:

- 3D Deinterlacing
- Inter Field Deinterlacing
- Intra Field Deinterlacing (off)

# 4.4.2 Video Compression

Users can select a proper MJPEG/H.264 compression mode in the video compression page (see the figure below), depending on the application.

	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome	
Video Format Video Compression Video OCX Protocol Video Frame Skip Audio	Video Co MJPEG C ○ high ○ low Save H.264 Cor ○ high ○ low ✓ Display Save	mpression compression de compression de compression compression s lest compress de compression compression compression	setting : n, low bitrate ion, default , high bitrate etting : sion, lowest o ion, default , highest qua	, low quality , high quality quality		H.264 IP Speed Dome	
CBR mode setting : enable H.264-1 CBR mode enable H.264-2 CBR mode Save							

#### **MJPEG** compression settings include:

- high compression, low bitrate, low quality
- middle compression, default
- low compression, high bitrate, high quality

#### H.264 compression settings include:

- highest compression, lowest quality
- middle compression, default
- low compression, highest quality

Users can also decide whether to display compression information on the Home page. Click "Save" to confirm the setting.

# 4.4.3 Video OCX Protocol

In the Video OCX protocol setting page, users can select RTP over UDP, RTP over TCP, RTSP over HTTP or MJPEG over HTTP, for streaming media over the network. In the case of multicast networking, users can select the Multicast mode. The page is shown as follows.

	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome			
Video Format	Video OC	X Protocol							
Video Compression		X protocol s	etting :						
Video OCX Protocol		over UDP	20)						
Video Frame Skip		over RTSP(T)	CP)						
Audio		G over HTTP							
	O Multica	O Multicast mode							
	Mul	lticast IP Add	ress	0.0.0.0					
	Mul	lticast H.264-	1 Video Port	0					
	Mul	ticast H.264-	2 Video Port	0					
	Mul	ticast MJPEC	G Video Port	0					
	Mul	ticast Audio	Port	0					
	Mul	ticast TTL		1					
	Save								
	Note:								
	This pa	age only app	lies to video s	streams goir	ng to a DC View	ver.			

Video OCX protocol setting options include:

• RTP over UDP / RTP over RTSP(TCP) / RTSP over HTTP / MJPEG over HTTP Select a mode according to your data delivery requirements.

Multicast Mode

Enter all required data, including multicast IP address, H.264 video port, MJPEG video port, audio port and TTL into each blank.

Click "Save" to confirm the setting.

# 4.4.4 Video Frame Skip

Video frame skipping is for saving bandwidth if necessary. The setting page is shown as below.

	PLANET	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome			
							-			
	Video Format	Video Fra	me Skip							
	Video Compression									
	Video OCX Protocol									
Þ	Video Frame Skip	○ Frame skipping at 5 frame internal								
	Audio	○ Frame	skipping at	10 frame inte	rnal					
		<ul> <li>○ Frame skipping at 15 frame internal</li> <li>Save</li> </ul>								

MJPEG/H.264 Frame Skip options include:

- No skipping, default
- Frame skipping at 5 frame internal (lowest frame loss rate)
- Frame skipping at 10 frame internal

• Frame skipping at 15 frame internal (highest frame loss rate)



NOTE: Higher frame skipping rate will decrease video smoothness.

# 4.4.5 Audio Mode and Bit Rate Settings

The audio setting page is show as below. In the Audio page, the Administrator can select one transmission mode and audio bit rate.

		9				1			
	Helworking & Communicative	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome		
	Video Format	Audio							
	Video Compression	Transmission Mode:							
	Video OCX Protocol	⊖ Fu	ll-duplex (Tal	k and listen s	imultaneousl	y)			
	Video Frame Skip	⊖Hal	lf-duplex (Tal	k or listen, no	ot at the same	e time)			
Þ	Audio	🔿 Sin	nplex (Talk or	nly)					
		🔿 Sin	nplex (Listen	only)					
		<ul> <li>Dis</li> </ul>	able						
		Bit Rate:	uLAW	*					
			Save						

#### Transmission Mode

• Full-duplex (Talk and Listen simultaneously)

In the Full-duplex mode, the local and remote sites can communicate with each other simultaneously, i.e. both sites can speak and be heard at the same time.

• Half-duplex (Talk or Listen, not at the same time)

In the Half-duplex mode, the local/remote site can only talk or listen to the other site at a time.

• Simplex (Talk only)

In the Talk only Simplex mode, the local/remote site can only talk to the other site.

• Simplex (Listen only)

In the Listen only Simplex mode, the local/remote site can only listen to the other site.

• Disable

Select the item to turn off the audio transmission function.

#### Bit Rate

Selectable audio transmission bit rate include 16 kbps (G.726), 24 kbps (G.726), 32 kbps (G.726), 40 kbps (G.726), uLAW (G.711) and ALAW (G.711). Both uLAW and ALAW signify 64 kbps but in different compression formats. Higher bit rate will let higher audio quality and require bigger bandwidth.

Click "Save" to confirm the setting.

# 4.5 PTZ Settings

Under the "PTZ" category, users are allowed to program Preset Point(s), Cruise Line(s), Auto Pan Path(s) and Sequence Line(s) via PTZ controls. Additionally, various camera settings including Auto Exposure (AE), White Balance (WB), Back Light Compensation (BLC), Sharpness, Exposure Compensation, Digital Zoom, etc. also can be set here.

# 4.5.1 Preset

Totally 256 Preset Points can be programmed for the Speed Dome IP Camera. Please refer to the instructions below to set a Preset Point.



#### Preset Setting

To setup a Preset Point, please first move the cursor to the live view pane. Then left click and drag the red pointer with PTZ controls to a desired position. Subsequently, assign a number for the current position from the drop-down Number List, and enter its descriptive name. Press the button "Set" to save the settings mentioned above.

#### Preset Go

To have the camera move to a specified Preset position, please select the Preset Point from the drop-down Presetlist. Then the camera shall readily move to the target position.

#### 4.5.2 Cruise

The Speed Dome IP Camera supports up to eight Cruise Paths. Please follow the instructions below for Cruise Path setup.



#### Cruise Setting

To setup a Cruise Path, please first select a path number from the drop-down list. Then move the cursor to the live view pane, and move the camera to a desired view (PTZ controls) as the start point of a Cruise Path. Press the "Set" button of "Record Start" and start programming the Cruise Path via PTZ controls. When finishing programming, press the "Set" button of "Record End" to quit. Then this Cruise Path will be automatically recorded.

#### Cruise Run

Select the specified Cruise Path from the drop-down list, press the "Run" button, and then the camera will start touring around as recorded.

To view the camera touring around in full screen mode, please move the cursor onto the live view pane, right-click and left-click to select "fullscreen". Then users can view the camera navigation in full screen.

To stop running a Cruise Path, simply move the cursor to the live view pane and move the camera in any direction.

#### 4.5.3 Auto Pan

The Speed Dome IP Camera supports four Auto Pan Paths. Please refer to the instructions below to set an Auto Pan Path.

		Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome
	Preset	Auto Pan					
	Cruise	Auto Pan S	Setting	- 11 Z/			
Þ	Auto Pan	Auto Pan P	ath: 1	<b>~</b>	6		
	Sequence	Speed:	0	× _			
	Home	Direction:	left	·			
	Tilt Range	Start Point:	Se	et		步.]].	
	Privacy Mask	End Point:	Se	et 🗕 👬	ENT		
	Camera - Exposure	Auto Pan F	Run				
	Camera - WB	Auto Pan P		- F			
	Camera - Misc1		Ru	n in		- E- C- C-	BURNESS ACTION
	Camera - Misc2		_			12 States	AND DESCRIPTION OF THE OWNER
	Camera - Default			-	S Sim.	miniment of	A State of the second s
				Zoom	wide	tele	
				Focus	auto	manual near	far

#### Auto Pan Setting

To setup an Auto Pan Path, please first select a path number from the drop-down list. Then move the cursor to the live view pane, and move the camera to a desired view as the Start Point of an Auto Pan Path. Click the "Set" button of the "Start Point", and the current view will be automatically saved as the start point of the Auto Pan Path.

**NOTE:** The room ratio of an Auto Pan's Start Point will persist throughout the whole path.

Enter the speed ratio into the Speed field; the speed ratio ranges from 0 (low) to 3 (fast). Then choose to run the Auto Pan Path in right/left direction from the Direction drop-down list.

Move the camera to another desired position as the end point of the Auto Pan Path. Click the "Set" button of the "End Point" for saving the setting.

#### Auto Pan Run

Select the specified Auto Pan Path from the drop-down list, press the "Run" button, and then the camera will start moving horizontally as recorded.

To view the camera panning in full screen mode, please move the cursor onto the live view pane, right-click and left-click to select "fullscreen". Then users can view the camera navigation in full screen.

To stop running an Auto Pan Path, simply move the cursor to the live view pane and move the camera in any direction.

#### 4.5.4 Sequence

The Speed Dome IP Camera supports totally eight Sequence Lines; each Sequence Line consists of

up to 64 Preset Points. Please refer to the instructions below to program a Sequence Line.





NOTE: Before setting this function, users must pre-define at least two Preset Points.

#### Sequence Setting

Please press the "Edit" button in "Sequence Setting" section to enter the Sequence setting menu as shown in the next page.

	PLANET	Home	System	Streami	na PTZ	Loc	gout	H 264 I	P Speed Dome
		Home	Bystein	Bardanni		209	Jour	1.2041	opool bomo
	Preset	Sequenc	e Set						
	Cruise					Save			
	Auto Pan	Sequence	Line: 1 🞽			Save			
Þ	Sequence	Preset	Name	Dw	ell Time	Speed			
	Home	1.	no setting	*					
	Tilt Range	2.	no setting	~					
	Privacy Mask	3.	no setting	~					
	Camera - Exposure	4.	no setting	~					
	Camera - WB	5.	no setting	~					
	Camera - Misc1	6.	no setting	*					
	Camera - Misc2	7.	no setting	*					
	Camera - Default	8.	no setting	*					
		9.	no setting	~					
		10.	no setting	*					
		11.	no setting	*					
		12.	no setting	*					
		13.	no setting	*					
		14.	no setting	*					
		15.	no setting	~					
				Pr	e Page	Next Page	)		

Sequence Line

Please select the number of Sequence Line to be set from the drop-down list in the top of the Sequence setting menu.

#### • Sequential Preset Points Setting

Please setup each Preset Point of the programmed Sequence Line in order, assigning a Preset Point from the "Name" list for the specified number of Preset Point and entering both Dwell Time ( $0\sim225$ ) and Speed ( $0\sim20$ ) into the corresponding fields.

When finishing the sequential Preset Points setting, please click the button "Save" in the top of the Sequence setting menu.

#### Sequence Run

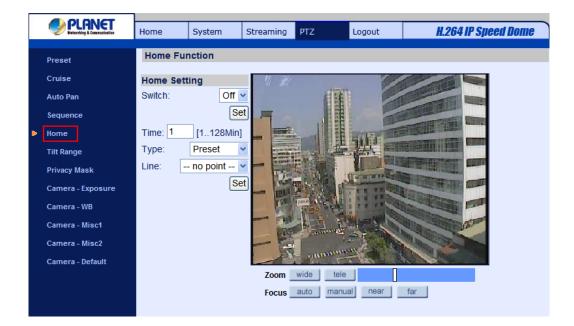
Select the specified Sequence Line from the drop-down list, press the "Go" button, and then the camera will start moving forward each scene sequentially as programmed.

To view the camera executing a Sequence Line in full screen mode, please move the cursor onto the live view pane, right-click and left-click to select "fullscreen". Then users can view the camera navigation in full screen.

To stop running the Sequence Line, simply move the cursor to the live view pane and move the camera in any direction.

# 4.5.5 Home

Users are able to set an operation mode to ensure constant monitoring. If the Speed Dome IP Camera idles for a period of time, the selected function will be activated automatically; this is the HOME function. The HOME function allows constant and accurate monitoring to avoid the Dome Camera idling or missing events.



#### Home Setting

• Activate/Disable Home Function

Select "On" or "Off" to activate or disable the Home function. Then press the "Set" button to save the setting.

• Time

The time here represents the duration of camera idle time previous to running a Preset Point/Cruise Line/Auto Pan Path/Sequence Line. When the Home function is activated, the Dome Camera will start to count down when it idles, and then execute the predefined action as time expires. The time period ranges from 1 to 128 minutes; please specify it in the field.

• Action Type

Please select a Home action type (Preset Point/Cruise Line/Auto Pan Path/Sequence Line) and specify the number of Preset Point/Cruise Line/Auto Pan Path/Sequence Line from the drop-down "Type" and "Line" lists. Press the button "Set" to save the Home settings.

# 4.5.6 Tilt Angle

The Speed Dome IP Camera's tilt angle is adjustable from minimum -10° to maximum 100°. Please enter the desired min. and max. tilt angle into the corresponding fields respectively. Press the "Set" button to save the tilt angle settings.



# 4.5.7 Privacy Mask

The Privacy Mask function aims to avoid any intrusive monitoring. When setting a mask, it is suggested to set it at least twice bigger (height and width) than the masked object. The Speed Dome IP Camera will assume the center of the selected view as a starting point. Therefore, please keep the target

object/region nearly positioned in the center of the scene. Refer to the following descriptions for setting a privacy mask.





**NOTE:** The Image Flip function (see section 4.5.10 Camera—Miscellaneous Setups Menu 1) and the Image Inverse function (see section 4.5.11 Camera—Miscellaneous Setups Menu 2) will be disabled automatically while the Privacy Mask function is enabled.

#### Mask Setting

Activate/Disable Privacy Mask Function

The Privacy Mask function can be activated or disabled. Press the button "Set" to save the setting.

Activate/Disable Transparency Mask

The Privacy Mask can be set as transparency if necessary.

Color Setting

Select a desired color from the "Color" drop-down list for the specified Privacy Mask.

Press the button "Set" to save the Privacy Mask's color properties.

Mask Number

Specify the number of the programmed Privacy Mask in the corresponding field. The numbers of Privacy Masks vary with camera models.

Mask Size

The size of a Privacy Mask can be customized through specifying its horizontal and vertical size. The value of "Horizontal Size" ranges from 1 ~80, while that of "Vertical Size" ranges from 1 ~60.

After finishing the setup of a Privacy Mask, press the button "Add" to save the programmed Privacy Mask.

#### Mask Clearing

In this section, users can delete an existing Privacy Mask. Please select the Privacy Mask to be removed from the drop-down list, and press the button "Clear". Then the selected Privacy Mask will readily disappear.

# 4.5.8 Camera - Exposure

In the Exposure Mode setting page, users can select either the "Full Auto" mode or adjust the parameter of the Shutter/Iris/Bright Priority mode for optimized video output in accordance with the operating environment.



#### **Shutter Priority Mode**

In this mode, it is shutter speed that takes main control of exposure. The range of shutter speed is from  $1/10000 \sim 1$ .

#### <u>Gain</u>

The bright value ranges from  $1 \sim 15$ .

# 4.5.9 Camera - WB

A camera needs to find reference color temperature, which is a way of measuring the quality of a light source, for calculating all the other colors. The unit for measuring this ratio is in degree Kelvin (K). Users can select one of the White Balance Control modes according to the operating environment. The following table shows the color temperature of some light sources for reference.

<b>e</b>	VLANET Autority & Conventionality	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome
Preset		WB					
Cruise		White bala	ince	11 Z/			
Auto Pa	n	<ul> <li>Auto</li> </ul>		1 martine	E EE		
Sequen	ce	<ul> <li>Indoor</li> <li>Outdoor</li> </ul>		<b></b>	, u		
Home		OATW		ALC: NO.	Teres	all and	
Tilt Ran Privacy		⊖ Manual Rgain:	10 [025	5]	Le la		
_	- Exposure	Bgain:	19 [0258 Set				
Camera	ı - WB			- Providence	THE OF	1111	
Camera	ı - Misc1			T BUR	A F F	5	No of Colorest Party of Colorest
Camera	ı - Misc2					IN THE REAL	A DECEMBER OF STREET
Camera	ı - Default			1			
				Zoom	wide tele		
				Focus	auto manu	al near	far

Light Sources	Color Temperature in K
Cloudy Sky	6,000 to 8,000
Noon Sun and Clear Sky	6,500
Household Lighting	2,500 to 3,000
75-watt Bulb	2,820
Candle Flame	1,200 to 1,500

#### Auto Mode

In this mode, white balance works within its color temperature range and calculates the best-fit white balance.

#### Indoor/outdoor Mode

Select for indoor or outdoor mode.

#### ATW Mode (Auto Tracing White Balance)

The Dome Camera takes out the signals in a screen in the range from 2000 K to 10000 K.

#### Manual Mode

In this mode, users can change the White Balance value manually via specifying R gain and B gain; the range of R/B gain is from 0 to 255.

#### 4.5.10 Camera - Miscellaneous Setups Menu 1

In the Camera - Misc (Miscellaneous) Setups Menu 1, users can set various camera parameters including Backlight Compensation (BLC), Sharpness, Exposures Compensation (ExpComp), Image Freeze, Image Flip, Digital Zoom and ICR function. Each setting is specified as follows:

	PLANET		0.1	al i			II OCA ID Crood Domo
	🥪 Helworking & Communication	Home	System	Streaming	PTZ	Logout	H.264 IP Speed Dome
	Preset	Misc					
	Cruise	Misc		11 Z/	100	1	
	Auto Pan	BLC	off 🗸		đ		
	Sequence		Set				
	Home	Sharpness	6 🗸				
	Tilt Range	(Default is 1	1) Set	with the second s			STATI I FAT
	Privacy Mask	ExpComp	8 🗸		E		
	Camera - Exposure	(Default is 8	) Set			DITE TE DESTRUCTION	
	Camera - WB	Freeze	Off 🛩				
•	Camera - Misc1		Set				Real Road
	Camera - Misc2	Flip	Off 🗸		Januar		AND DESCRIPTION OF
	Camera - Default		Set		- Almonia	- K	
		Digital zoom	Off 🗸	Zoom	wide t	tele	
			Set	Focus	automa	anual near fa	ar
		ICR function	Auto 🗸				
			Set	]			
			_	,			

# <u>BLC</u>

Users can choose to activate or disable the BLC function. Press the button "Set" to save the setting.

# Sharpness

Increasing the sharpness level can make the image looked sharper; especially enhancing the object's edge. The Sharpness value is adjustable from 1 to 15. Press the button <Set> to confirm the setting.

#### **ExpComp**

Users can define the value of Exposure Compensation; the value ranges from 1 to 15.

# Freeze

Freeze function allows to hold the image while the camera is moving between preset positions such as in Preset mode and Sequence mode. Users can choose to activate or disable the function. Press the button "Set" to save the setting.

# <u>Flip</u>

Users can track an object continuously when it passes through under the Dome Camera with setting Flip to Mechanical (M.E.) mode or Digital Flip (Image) mode.



NOTE: Flip setting is manual-controlled only. If a Preset Position or a point for other function (ex. Sequence) is set in the position that can only be reached through FLIP motion, when Flip function is turned off, the position cannot be reached anymore.



**NOTE:** To make the Dome Camera tilt between a specific range, such as  $-10^{\circ}$  to  $+100^{\circ}$  or  $-10^{\circ} \sim +190^{\circ}$ , please go to the Tilt Range setting page to set the tilt angle range. Otherwise,

the Dome Camera will tilt 90° as the default setting.

#### • M.E. Mode

M.E. is a standard mechanical operation. As the Dome Camera tilts to the maximum angle, it will pan 180°, and then continue tilting to keep tracking objects.

#### Image Mode

IMAGE represents digital IMAGE FLIP, which enables users to keep tracking objects seamlessly; under the mode, almost no delay occurs in comparing with that under the M.E. mode.



**NOTE:** The Privacy Mask function will be automatically disabled if the Image Flip function is enabled.

#### **Digital Zoom**

The network Speed Dome Camera can supports up to 12× Digital Zoom. Press the button "Set" to save the setting.

#### **ICR Function**

With the IR cut filter, the camera can still catch clear image at night time or in low light conditions.

Auto

In the Auto mode, the internal circuit will automatically decide the occasion to remove the IR cut filter according to the image brightness level.

• On

Select the item to remove the IR cut filter.

• Off

Select the item to disable IR function.

# 4.5.11 Camera - Miscellaneous Setups Menu 2

In the Camera - Misc (Miscellaneous) Setups Menu 2, users can setup various functions such Image Inverse, Auto Calibration, Wide Dynamic Range (WDR; optional), Image Stabilizer (optional) and 2D/3D Noise Reduction (2DNR/3DNR; optional).



#### Inverse

When the Image Inverse function is activated, the image will be inversed vertically and horizontally. Press the button "Set" to save the setting.

#### Auto Calibration

With the Auto Calibration function, the Speed Dome IP Camera calibrates when the deviation of dome pivot is detected. Press the button "Set" when finishing setting.

#### <u>WDR</u>

The WDR function is especially effective in environment with extreme contrast. Press the button "Set" when finishing the setting.

#### <u>Stabilizer</u>

With the Image Stabilizer Function, the Speed Dome IP Camera can capture images that would otherwise be blurred due to the vibration. Press the button "Set" when finishing setting.

#### 2D/3DNR

With the 2D/3D Noise Reduction function, the processor analyzes pixel by pixel and frame by frame to eliminate environmental noise signal so that the highest quality image can be produced even in low light conditions. In comparison with 2DNR, 3DNR generates better de-noising effects. Press the button "Set" when finishing setting.

#### 4.5.12 Camera - Default

In the Camera Default page, users can set the camera back to factory default settings simply by pressing the "Set Default" button.



# 4.6 Logout

Press the tab "Logout" in the top of the page, and the login window will pop up. This enables login with another user name.

Connect to 197	.168.0.20
R	
Internet Camera User name:	🖸 admin 💌
Password:	Remember my password
	OK Cancel

# Appendix A: IP Camera Specifications

Product	ICA-H652
Video Specification	
Horizontal Resolution	540 TV Lines
Scanning System	NTSC / PAL
Effective Pixels	NTSC 380K: 768 (H) x 494 (V) PAL 440K: 752 (H) x 582 (V)
Sensor	1/4" Color Sony CCD
Lens Type	36X optical zoom, 12X digital zoom
View Angle	H: 1.8 ~ 60.8 Degree / V: 1.3 ~ 43 Degree
Lens	F1.6~3.4/ F1.6 ~ 122.4 mm
S/N Ratio	> 50 dB (AGC Off)
Minimum Illumination	0.1 lux , 0.01lux(B/W)
Focal Length	3.4~122.4 mm
Focus Mode	Auto / Manual
White Balance	Auto / Manual
Iris Control	Auto / Manual
Electronic Shutter	1/1~1/10k sec.
AGC control	Auto / Manual
Back Light Compensation	On/Off
Image (Video Setting)	
Video Encoder	H.264 / M-JPEG simultaneously
Video Resolution	D1: NTSC 720x480 / PAL 720x576 CIF: NTSC 352x240 / 352x288
Frame Rate	30fps for all resolutions
Audio Compression	G.726 ADPCM / AAC
Alarm Reaction	Preset, Sequence, Auto pan, Cruise
Network and Configurati	on
Network Interface	Ethernet 10Base-T/100Base-TX
Networking Protocol	TCP/UDP/IP, HTTP, FTP, SMTP, ARP, ICMP, DHCP, Telnet, RTP/RTSP
Browser / Software	Microsoft
Hardware	
Pan Degree	0 ~ 360 Degree continuous panning
Tilt Degree	90 Degree with instant flip
Preset Point	256 present points
Camera Cruise	8 cruises
Audio in / Audio out	1 x MIC in / 1 x Line out
Video Output	1.0 Vp-p / 75ohm (BNC connector)
2-Way Audio	Full-duplex, Half-duplex, Simplex
DI / DO ports	DI x 4 / DO x 1 (dry contact)
Protection Class	IP-66 outdoor classification, Built-in Fan and Heater
Dimension	Φ190 x 302.5 mm
Weight	2.6kg

Power Supply	AC 24V ± 10%, 3A
Operating Temperature	-45 ~ 50 Degree C
Operating Humidity	20 – 90% (non- condensing)
Power Consumption	65 W (with Heater)
Emission	CE, FCC

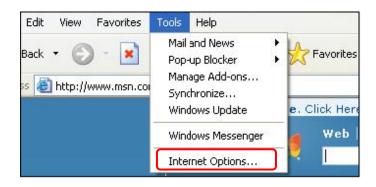
# **Appendix B: Internet Security Settings**

If ActiveX control installation is blocked, please either set Internet security level to default or change ActiveX controls and plug-ins settings.

#### Internet Security Level: Default

Step 1: Start the Internet Explorer (IE).

Step 2: Select <Tools> from the main menu of the browser. Then Click <Internet Options>.



Step 3: Click the <Security> tab, and select <Internet>.

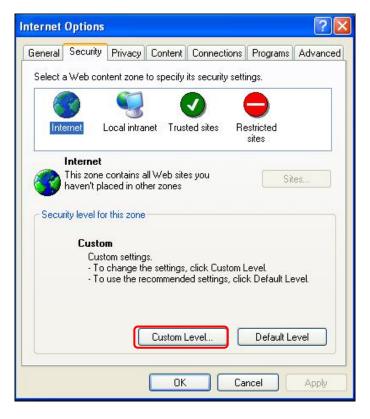
Internet (	Options				? 🛛
General	Security	Privacy Content	Connections	Programs	Advanced
Select a	Web cor	itent zone to specify	its security setti	ngs.	
				9	
Inte	rnet	.ocal intranet Trus		estricted sites	
	nternet				
		contains all Web site aced in other zones	es you	Sit	es
Securi	ty level fo	r this zone			
	Custo	m			
		om settings. change the settings	click Custom I	evel	
		use the recommend			evel.
		Custom	Level	Default L	evel
		ОК	Car	ncel	Apply

**Step 4:** Down the page, press "Default Level" (see the figure above) and click "OK" to confirm the setting. Close the browser window, and open a new one later when accessing the IP Camera.

#### **ActiveX Controls and Plug-ins Settings**

**Step 1~3:** Refer to the previous section above.

**Step 4:** Down the page, press "Custom Level" (see the figure below) to change ActiveX controls and plug-ins settings.



The Security Settings screen is displayed as below:

Security Settings	? 🔀
Settings:	
ActiveX controls and plug-ins         Automatic prompting for ActiveX controls         Disable         Enable         Binary and script behaviors         Administrator approved         Disable         Enable         Disable         Enable         Disable         Enable         Disable         Enable         Prompt         Disable         Disable         Prompt         Operation         Disable         Disable         Download unsigned ActiveX controls	
	>
	eset

Step 5: Under "ActiveX controls and plug-ins", set ALL items (as listed below) to <Enable> or <Prompt>.

#### ActiveX controls and plug-ins settings:

- 1. Automatic prompting for ActiveX controls
- 2. Binary and scrip behaviors
- 3. Download signed ActiveX controls
- 4. Download using ActiveX controls
- 5. Initialize and script ActiveX not marked as safe
- 6. Run ActiveX controls and plug-ins
- 7. Script ActiveX controls marked safe for scripting

**Step 6:** Click <OK> to accept the settings and close the <Security> screen.

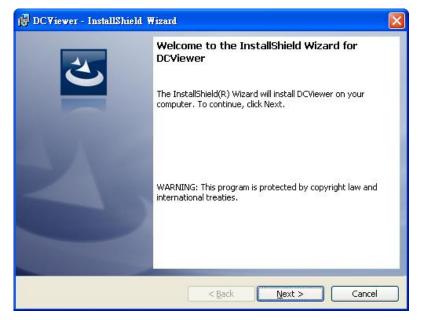
**Step 7:** Click <OK> to close the Internet Options screen.

**Step 8:** Close the browser window, and restart a new one later for accessing the IP Camera.

# Appendix C: DC Viewer Download Procedure

The procedure of DC Viewer software download is specified as follows.

**Step 1:** In the DC Viewer installation page, click "Next" for starting installing.



Step 2: Setup starts. Please wait for a while until the loading bar runs out.

🙀 DCView	ver - InstallShield Wizard	
00.050	g DCViewer gram features you selected are being installed.	2
1	Please wait while the InstallShield Wizard installs DCViewer. This mar several minutes. Status:	y take
InstallShield -	< <u>B</u> ack Next >	Cancel

**Step 3:** Click "Finish" to close the DC Viewer installation page.



Then, the IP Camera's Home page will display as follows:

Home	System	Streaming	Camera	Logout	Full HD IP CAMERA
	1.00			2010/0	6/15 14:29
The second	- HINH		I BEET		
		· · ··································	States States		
		TTT			
THE STORE					and the second sec
THE A		IN IVIT	A.	STREET, STREET	1000
		EG OH.264		x 1/2 Full	talk
H.264 bitr	ate : 4096kb	compression ps,middle con	, middle qua npression	illey	

#### Q1 [ICA-H652] How can I know the IP address of IP camera?

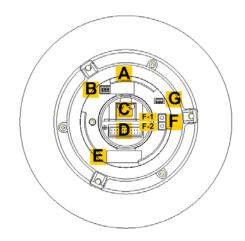
The default IP address is 192.168.0.20, and you could use the **Device Search** utility on the bundled CD to obtain the current IP address of IP camera. Please refer to the user's manual for more detail information.

#### Q2 [ICA-H652] How to supply power to IP Camera?

Connecting the AC power adapter with Power Input connector of data cable. Then accordingAns: to the practical local power voltage to adjust the power switch, and connect the power cord with adapter and power outlet.

#### Q3 [ICA-H652] How to reset IP camera to default setting?

To press the F-2 button over 5 seconds at the camera body. Then all of setting include network parameters will back to factory defaults.



# Q4 [ICA-H652] After upgraded firmware, why can't see the picture for MJPEG video format via web browser?

That because the system with the newer video formats, and the PC need to install the newer DC Viewer software to appear the video on PC properly.

Ans: Please go to "Control Panel -> Add or Remove Programs" to remove old DC Viewer software at first. Then connect to IP camera via web browser and it will prompt to install the new DC Viewer software in to PC.

Ans:



# EC Declaration of Conformity

For the following equipment:

*Type of Product:	H.264 36x Outdoor Speed Dome Internet Camera (NTSC/PAL)
*Model Number:	ICA-H652-NT/PA

\* Produced by:
Manufacturer's Name : Planet Technology Corp.
Manufacturer's Address: 11F, No 96, Min Chuan Road, Hsin Tien, Taipei, Taiwan, R.O.C.

is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (89/336/EEC,).

For the evaluation regarding the Electromagnetic Compatibility, the following standards were applied:

EN 55022	(1998 + A1: 2000 + A2: 2003, Class A)
EN 61000-3-2	(2000, Class A)
EN 61000-3-3	(1995 + A1: 2001)
EN 55024	(1998 + A1: 2001 + A2: 2003)
IEC 61000-4-2	(2001)
IEC 61000-4-3	(2002 + A1: 2002)
IEC 61000-4-4	(2004)
IEC 61000-4-5	(2004) (2001)
IEC 61000-4-6	(2003 + A1: 2004)

**Responsible for marking this declaration if the:** 

☑ Manufacturer □ Authorized representative established within the EU

Authorized representative established within the EU (if applicable):

Company Name: Planet Technology Corp.

Company Address: 11F, No. 96, Min Chuan Road, Hsin Tien, Taipei, Taiwan, R.O.C

Person responsible for making this declaration

Name, Surname Jonas Yang

Taiwan

Place

Position / Title : <u>Product Manager</u>

Legal Signature

# PLANET TECHNOLOGY CORPORATION

<sup>th</sup> July, 2010

Date