

User Manual

IP Vandal Dome

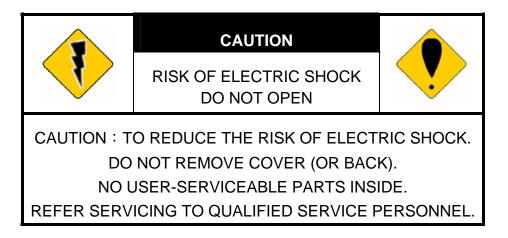


WARINGS

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC & ELETRIC CONDUCTIVE OBJECT THROUGH VENTILATION GRILLS.

CAUTION



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THE TRADEMARKS MENTIONED IN THE MANUAL ARE LEGALLY REGISTERED TO THEIR RESPECTIVE COMPANIES.



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I. Preface

IP Vandal Dome is a professional CCD IP Vandal Dome. It has built-in web server which enables user to view real-time video via IE browser. It also supports simultaneously MPEG-4&JPEG video compression and dual streaming which provides smooth and high video quality. The video can be stored in the SD card, and can be playback remotely.

IP Vandal Dome is an easy-to-use IP Camera which is designed for security application.

II. Product Specifications

- Support PoE (Power Over Ethernet) Optional
- Support IP66 (Weatherproof)
- Support Dual streaming
- High Resolution (540 TV Lines)
- True Day/Night function, removable IR Cut Filter, ICR (Optional)
- Vandal Proof (Polycarbonate shell withstand impact up to 400 pounds)
- MPEG4/ JPEG compression
- Supports SD card for local recording
- 2-way audio
- Support Cell Phone/PDA
- Support 3GPP
- Online firmware upgrade
- Compatible with Microsoft Windows Media Player

Specifications

Hardware					
Model	Model 1	Model 2			
Picture Elements HxV	NTSC: 510×492, PAL: 500×582	NTSC: 768×494, PAL: 752×582			
Horizontal Resolution More than 420 TV Lines		More than 540 TV Lines			
Image sensor	1/3" CCD 3.7~12mm vari-focal lens,F1.6 IR LED Built-in (optional)				
Lens Changeable					
IR LED					



CPU	ARM 9 ,32 bit RISC
SDRAM	64MB
Flash	8MB
Video Out	1 Vp-p, 75 Ohms
I/O	1 in/out Relay out (COM. & N.O.)
Audio in	1
Audio Out	1
Power Consumption	DC 12V, 490mA
Dimensions (W×H×D)	126 x 126 x 100 mm
Weatherproof	IP66
Vandal Proof	Polycarbonate shell can withstand impact up to 10 pounds
Network	
Ethernet	10/ 100 Base-T
Network Protocol	HTTP, TCP/ IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP,
	3GPP, UPnP
System	
Video Resolution	NTSC : 720x480, 704x480,352x240, 176x120
	PAL:720x576, 704x576, 352x288, 176x144
Video adjust	Brightness, Contrast, Saturation, Hue
Power Over Ethernet(PoE)	Optinal
Dual Streaming	Yes
CCD setting	BLC
Image snapshot	Yes
Full screen monitoring	Yes
Compression format	MPEG-4/ JPEG
Video bitrate adjust	CBR, VBR
Motion Detection	Yes, 3 different areas
Triggered action	Mail, FTP, Save to SD card
Pre/ Post alarm	Yes, configurable
Security	Password protection
Firmware upgrade	HTTP mode, can be upgraded remotely
Simultaneous connection	Up to 10
Audio Yes, 2-way	
SD card management	
Recording trigger	Motion Detection, IP check, Network break down (wire only)
Video format	AVI, JPEG



Video playback		Yes
Delete files		Yes
Web browsing requirement		
OS		Windows 2000, XP, 2003, Microsoft IE 6.0 or above
Hardware Suggested		Intel-C 2.0G, RAM : 512MB, Graphic card : 64MB
Minimum		Intel-C 1.6G, RAM : 256MB, Graphic card : 32MB

III. Product Installation

A. Monitor Setting

i. Right-Click on the desktop. Select " Properties".

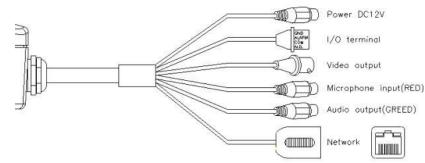
Arrange Icons By Refresh	•
Paste	
Paste Shortcut	
Save As Scheme	
Graphics Options	
Display Modes	•
New	•
Properties	

ii. Change color quality to highest (32bit).



Display Propertie	s		? 🛛
Themes Desktop	Screen Saver	Appearance	Settings
Display: Plug and Play Mor Family Screen resolutio Less 1024 by 7	n More	_	
		Troublesh	oot Advanced
		ок	Cancel Apply

B. Hardware Installation



- i. Connect power adaptor
- ii. Connect Ethernet cable to IP Camera
- iii. Connect IP Camera to a computer or Local network.

B-1 I/O Control Instruction

I/O terminal connector – used in application, for e.g., motion detection, event triggering, alarm notifications. It provides the interface to:

1 Digital Input (GND+Alarm) – An alarm input for connecting devices that can toggle between an open and closed circuit, for example: PIRs, door/window contacts, glass break detectors, etc. When a signal is received the state changes and the input becomes active.



1 Relay output (COM +N.O.) – An output to Relay switch, for example: LEDs, Sirens, etc

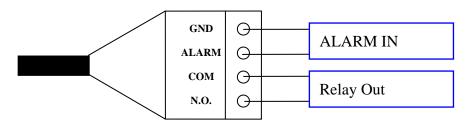
Digital Input

Alarm Input

- 1. GND (Ground) : Initial state is LOW
- 2. Alarm : Max. 50mA, 12VDC

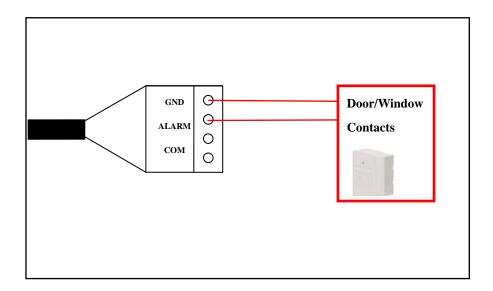
Relay Output

- 1. COM: (Common)
- 2. N.O. (Normally Open): Max. 1A, 24VDC or 0.5A, 125VAC



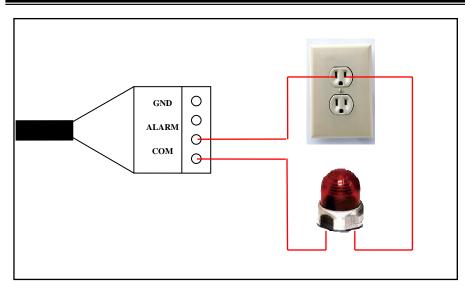
B-2 Relay Connection:

Digital Input connection



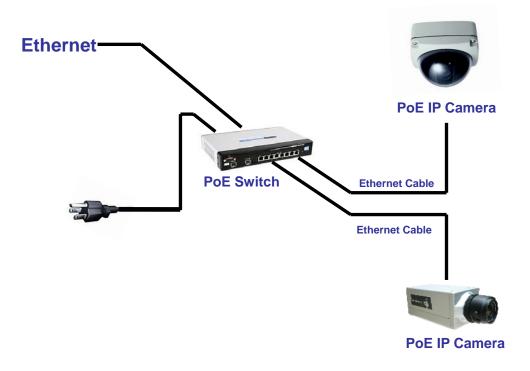
Relay Output Connection







B-3 PoE (Power Over Ethernet)(Optional) 802.3af, 15.4W PoE Switch is recommended Power over Ethernet (PoE) is a technology that integrates power into a standard LAN infrastructure. It enables power to be provided to the network device, such as an IP phone or a network camera, using the same cable as that used for network connection. It eliminates the need for power outlets at the camera locations and enables easier application of uninterruptible power supplies (UPS) to ensure 24 hours a day, 7 days a week operation.





C. IP Assignment

- i. Use the software, "IP Installer" to assign the IP address of IP Camera. The software is in the attached software CD.
- ii. There are two languages for the IP installer
 - a. IPInstallerCht.exe : Chinese version
 - b. IPInstallerEng.exe : English version
- iii. There are 3 kinds of IP configuration.
 - a. Fixed IP (Public IP or Virtual IP)
 - b. DHCP (Dynamic IP)
 - c. Dial-up (PPPoE)
- iv. Please execute IP Installer
- v. For Windows XP SP2 user, the following message box may appear. Please click "Unblock".

Wind Wind	To help	urity Alert Xindows Firewall has blocked stures of this program.
Do you	Name:	eep blocking this program? IPInstaller V2.1 Network Device Scan Unknown
Internet	or a networ	Keep Blocking Unblock Ask Me Later as blocked this program from accepting connections from the k. If you recognize the program or trust the publisher, you can bould I unblock a program?

vi. IP Installer configuration:



Server Name IP_Camera	IP Address 192.168.001.200	Name	© Sta		C DHC	P	
		IP	192	168	1	200	
		Netmask	255	255	255	0	
		Gateway	192	168	1	254	
		DNS 1	168	95	1	1	
		DNS 2	168	95	192	1	
		Port1		8	0		
		MAC	00:	OF:OD	: 20 : 08	:5A	
Search Device Submit							
To Change Device Name, IP address, and Gateway: 1.Select the device on the left side. 2.Change network parameter on the right side. 3.Press Submit button. 4.Press "Search Device" to re-search again. 5.Double click the device to open it. Exit							

- vii. IP Installer will search all IP Cameras connected on Lan. The user can click "Search Device" to search again.
- viii. Click one of the IP Camera listed on the left side. The network configuration of this IP camera will show on the right side. You may change the "name" of the IP Camera to your preference (eg: Office, warehouse). Change the parameter and click "Submit". The following dialogue box will show. Just click "OK". It will apply the change and reboot the Device.

IPInstaller .	
Rebooting,Plea	ase wait
ОК	٦

ix. Please make sure the subnet of PC IP address and IP CAM IP address are the same.

The same Subnet:

IP CAM IP address: <u>192.168.1</u>.200 PC IP address: <u>192.168.1</u>.100 **Different Subnets:** IP CAM IP address: <u>192.168.2</u>.200 PC IP address: <u>192.168.1</u>.100



To Change PC IP address:

Control Panel→Network Connections→Local Area Connection Properties→Internet Protocol (TCP/IP) →Properties

Please make sure your IP Camera and PC have the same Subnet. If not, please change IP Camera subnet or PC IP subnet accordingly.

🕹 Local Area Connection Properties 🛛 🔹 🏹	Internet Protocol (TCP/IP) Properties
General Authentication Advanced	General
Connect using: Paaltek RTL8139 Family PCI Fast Ethernet NIC	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Configure This connection uses the following items:	Obtain an IP address automatically Use the following IP address:
Client for Microsoft Networks	IP address: 192.168.1.100
 File and Printer Sharing for Microsoft Networks QoS Packet Scheduler 	Subnet mask: 255 . 255 . 0
Internet Protocol (TCP/IP)	Default gateway: 192 . 168 . 1 . 254
Install Uninstall Properties	Obtain DNS server address automatically
Description	O Use the following DNS server addresses:
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication	Preferred DNS server: 192 . 168 . 1 . 2
across diverse interconnected networks.	Alternate DNS server: 168 . 95 . 192 . 1
Show icon in notification area when connected	Advanced
Close Cancel	OK Cancel

x. A quick way to access remote monitoring is to left-click the mouse twice on a selected IP Camera listed on "Device list" of IP Installer. An IE browser will be opened.

Device lists:				• Sta	atic	C DHC	P
Server Name	IP Address	_					
IP_Camera	192.168.001.165		Name		IP_C	amera	
			IP	192	168	1	165
			Netmask	255	255	255	0
			Gateway	192	168	1	254
			DNS 1	168	95	1	1
			DNS 2	168	95	192	1
			Port1		8	0	
			MAC	00:	0F:0D	:00:21	: 0F
1	Search Device					Subr	nit
To Change Device Name, IP ad 1.Select the device on the left s 2.Change network parameter o 3.Press Submit button. 4.Press "Search Device" to 5.Double click the device to op	side. n the right side. re-search again.				[Exi	it



xi. Then, please key in the default "user name: admin" and "password: admin".

Connect to 19	2.168.1.217	? 🛛
S		
¥ 7		A A
IP Camera		
User name:	🕵 admin	~
Password:		
	Remember my passv	vord
	ОК	Cancel

D. Install ActiveX control:

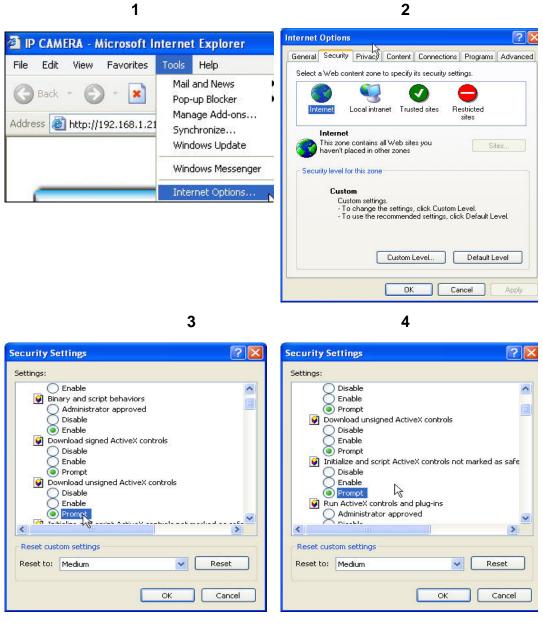
For the first time to view the camera video via IE, it will ask you to install the ActiveX component.



If the installation failed, please check the security setting for the IE browser.

- IE → Tools → Internet Options... → Security Tab → Custom Level... → Security Settings → Download unsigned ActiveX controls → Select "Enable" or Prompt.
- ii. IE → Tools → Internet Options... → Security Tab → Custom Level...
 →Initialize and script ActiveX controls not marked as safe → Select "Enable" or Prompt.





5

When popup the following dialogue box, click "Yes".





IV. Live Video

Start an IE browser, type the IP address of the IP Camera in the address field. It will show the following dialogue box. Key-in the user name and password. The default user name and password are "**admin**" and "**admin**".

Connect to 19	2.168.1.217 🛛 🛛 🔀
IP Camera	
User name:	🖸 admin 👻
Password:	•••••
	Remember my password
	OK Cancel

When connect to the IP Camera ,The following program interface shows.

	6
Image: Additional and the state of the	
3 2007/JUL/02 16:45:52 Size:704x480 FPS: 25 4 Streaming 1 5 Chatting: 6 Online Visitor: 1 7 Relay Out: ON 0 FF	



1. Get into the administration page



- 3. Show system time, video resolution, and video refreshing rate
- 4. Select video streaming source (When streaming 2 setting in [®]Video Setting is closed, this function will not display)
- IP Camera supports 2-way audio. Click the "Chatting" check box. Then you can use microphone which connects to the PC to talk to server side, which is IP Camera side
- 6. Shows how many people connect to this IP camera
- 7. Control the relay which is connected to this camera.

Double-click the video, it will change to full screen mode. Press "Esc" or double-click the video again, it will change back to normal mode.

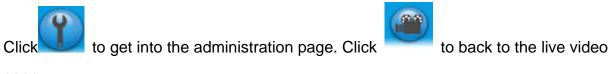
Right-Click the mouse on the video, it will show a pop-up menu.



- 1. Snapshot : Save a jpg picture
- Record Start : Record video in the local PC. It will ask you where to save the video. To stop recording, right-click the mouse again. Select "Record Stop". The video format is AVI. Use Microsoft Media Player to play the recorded file.
- 3. Mute : Turn of the audio. Click again to turn on it.
- 4. Full Screen : Full-screen mode.



V. IP Vandal Dome Configuration



page.

	System Information	System Information	
- 		Server Information	
	User Management	Server Name: IP_Camera	
System	System Update	MAC Address: 00:0F:0D:20:15:90	
System		Language: 💿 English 🔘 繁體中文 🔘 简体中文	
	IP Setting	Overlay Setting	
Caro		Enabled Disabled	
	PPPoE	Position: Top-Left O Top-Right O Bottom-Left O Bottom-Right	
	DDNS	Time Setting	
Network		Server Time: 2007/5/8 10:52:44 Time Zone: GMT+08:00	
		Date Format: 💿 yy/mm/dd 🔿 mm/dd/yy 🔿 dd/mm/yy	
	Image Setting	Time zone: GMT+08:00	
		O NTP :	
	Video Setting	NTP Server: 198.123.30.132	
A/V Setting	Audio	Synchronize with PC's time	
		Date : 2007/5/8	
	Event Setting	Time : 10:49:28	
	I/O Setting	O Manual	
		Date : 2007/5/8	
	Mail & FTP		
	SD Card	Time : 10:49:15	
Event List	Log List	The date and time remain the same	
		Apply	



A.System

- i System Information
 - a. Server Information : Set up the camera name, select language, and set up the camera time.
 - 1. Server Name : This is the Camera name. This name will show on the IP Installer.
 - 2. Select language : There are English, Traditional Chinese, and Simple Chinese to select. When changed, it will show the following dialogue box for the confirmation of changing language.



b. Overlay Setting : select a position where date & time display on screen.



c. Server time setting : Select options to set up time - "NTP",

"Synchronize with PC's time", "Manual", "The date and time remain the same".

Time Setting			
Server Time:	2007/4/11 14:	56:	01 Time Zone: GMT+08:00
Date Format:	💽 yy/mm/d	d	🔿 mm/dd/yy 🔿 dd/mm/yy
Time zone:	GMT+08:00	~	
● NTP :	GMT-09:00 GMT-08:00	^	
NTP Server :			
🔘 Synchronize	GMT-06:00 GMT-05:00	П	
Date :	GMT-04:00 GMT-03:30		
Time :	GMT-03:00 GMT-02:00		
🔘 Manual	GMT-01:00		
Date :	GMT-00:00 GMT+01:00		
Time :	GMT+02:00 GMT+03:00		
🔘 The date and			e same
	GMT+04:00 GMT+04:30		Apply
	CMT-06-00		



ii 🛌 User Management

IP Camera supports three different users, administrator, general user, and anonymous user.

	User Man	agement	
Anonymous User	Login		
	🔘 YES	💿 NO	Setting
Add User			
Username: Password: Confirm:			Add/Set
User List			
Userame admin	User Group Administrator	Modify Edit	Remove

a. Anonymous User Login :

Yes : Allow anonymous login

No : Need user name & password to access this IP camera

b. Add user :

Type the user name and password, then click "Add/Set".

c. Click "edit" or "delete" to modify the user.

	М	
	User Setup	
Username:	admin	
Password:		
Confirm:		ОК



iii • System update :

	System Update
Firmware Upgrade	
Firmware Version:	V3.2.11
New Firmware:	瀏覽
	Upgrade
Reboot System	
	Start
Factory Default	
	Start
Setting Management	
	Right click the mouse button on Setting Download
Save As a File:	and then select Save As to save current system's setting in the PC.
New Setting File:	瀏覽
	Upgrade

- a. To update the firmware online, click "Browse..." to select the firmware. Then click "Upgrade" to the proceed.
- b. Reboot system : re-start the IP camera
- c. Factory default : delete all the settings and restore defaults system.
- d. Setting Management: User may download the current setting to PC, or upgrade from previous saved setting.
 - Setting download: Right-click the mouse button on Setting Download → Select "Save AS..." to save current IP CAM setting in PC → Select saving directory → Save
 - Upgrade from previous setting Browse → search previous setting → open → upgrade → Setting update confirm → click <u>index.html</u>. to return to main page



B.Network

i VIP Setting

IP Vandal Dome supports DHCP and static IP.

	IP Setting	3	
IP Assignment			
🔘 DHCP			
 Static 			
IP Address:	192.168.1.200		
Subnet Mask:	255.255.255.0		
Gateway:	192.168.1.254		
DNS 0:	168.95.1.1		
DNS 1:	168.95.192.1		
Port Assignment			
Web Page Port:	80		
RTSP Port :	554		
RTP Start Port:	5000	[102410000]	
RTP End port:	9000	[102510000]	
UPnP			
UPnP:	💿 Enabled 🛛 🔘	Disabled	Apply

a. DHCP : Using DHCP, IP Vandal Dome will get all the network parameters automatically.

- b. Static IP : Please type in IP address, subnet mask, gateway, and DNS manually.
- c. Port Assignment: user may need to assign different port to avoid conflict when setting up IP assignment.
 - 1. Web Page Port: setup web page connecting port and video transmitting port (Default: 80)
 - 2. RTSP Port: setup port for RTSP transmitting (Default: 554)
 - RTP Start and End Port: in RTSP mode, you may use TCP and UDP for connecting. TCP connection uses RTSP Port (554).
 UDP connection uses RTP Start and End Port.
- d. UPnP (Universal Plug and play): Display UPnP device icon in [®] My Network Places ¹ for hyper link.



ii、 PPPoE:

	PPPoE	
PPPoE Setting		
C Enabled Username: Password:	Disabled	
Send mail after d	ialed	
Enabled		
Subject:	PPPoE From IPcam	Apply

Select "Enabled" to use PPPoE.

Key-in Username and password for the ADSL connection.

Send mail after dialed : When connect to the internet, it will send a mail to a specific mail account. For the mail setting, please refer to "Mail and FTP" settings.

iii、 DDNS:

IP Vandal Dome supports DDNS (Dynamic DNS) service.

a. DynDNS :

	DDNS	
DDNS Setting		
🔘 Enabled 🛛 💿 D	isabled	
Provider:	dyndns.org	*
Hostname:]
Username:]
Password:]
Schedule Update:	1440	Minutes
State		
ldle		Apply
Note:		
IP products which in range from every 5 off. 2. Please note that the schedule update is i	nstalled behind the IC (minutes) to 5000 (mi hostname will be bla	ule update is designed for (S or NAT devices, Update inutes) and 0 remain to ocked by DynDNS.org if y 5 minutes to 60 minutes, 0 minutes is

- 1. Please enable this service
- 2. Key-in the DynDNS server name, user name, and password.
- 3. Set up the IP Schedule update refreshing rate.



- 4. Click "Apply"
- If setting up IP schedule update too frequently, the IP may be blocked. In general, schedule update every day (1440 minutes) is recommended.
- b. Camddns service :

	DDNS	
DDNS Setting		
🔘 Enabled 🛛 💿 D	lisabled	
Provider:	ddns.camddns.cor	n 🚩
Username:		
Schedule Update:	1440	Minutes
State		
ldle Note:		Apply
IP products which in	nstalled behind the l	lule update is designed for CS or NAT devices. Update inutes) and 0 remain to
schedule update is		locked by DynDNS.org if ry 5 minutes to 60 minutes. 10 minutes is

- 1. Please enable this service
- 2. Key-in user name.
- 3. IP Schedule update is default at 5 minutes
- 4. Click "Apply".
- c. DDNS Status
 - 1. Updating : Information update
 - 2. Idle : Stop service
 - DDNS registration successful, can now log by http://<username>.ddns.camddns.com : Register successfully.
 - 4. Update Failed, the name is already registered : The user name has already been used. Please change it.
 - 5. Update Failed, please check your internet connection : Network connection failed.
 - Update Failed, please check the account information you provide : The server, user name, and password may be wrong.



C.A/V Setting

i . Image Setting

	Came	era	
mage Setting	0		
mage Setting Brightness:	0	> > > > >	

Adjust "Brightness", "Contrast", "Hue", "Saturation" to get clear video. If needed, please select "Back Light Compensation" ON to compensate back light situation

- ii This is an Auto Iris IP Camera. If the video is over bright or over exposed, please adjust the Auto Iris Level to improve the video
 - a. Before adjust Auto Iris Level, please turn off the Back Light Compensation
 - b. Please refer to following diagram to make proper Auto Iris Level adjustment



iii · Video Setting

User may select 2 streaming output simultaneously: Streaming 1 Setting: Basic mode and Advanced mode Streaming 2 Setting: Basic mode, Advanced mode, and 3GPP mode (Max Video Frame Rate for both streaming combined is 30 FPS)



a. Streaming 1 Basic Mode :

Video Setting					
Streaming 1 Setting	Streaming 1 Setting				
Basic Mode Advanced Mode					
Resolution:	4CIF - 704x480 🔽				
Quality:	Standard 🐱				
Video Frame Rate:	25 FPS 🐱				
Video Format:	MPEG4 💌				
Access Name:	rtsp://< <ip>>/</ip>				

1. Resolution :

There are 4 resolutions to choose.

		NTSC	/	PAL
D1	_	720×480	/	720×576
4CIF	_	704×480	/	704×576
CIF	_	352×240	/	352×288
QCIF	_	176×120	/	176×144

2. Quality :

There are 5 levels to adjust:

Best/ High/ Standard/ Medium/ Low

The higher the quality is, the bigger the file size is.

Also not good for internet transmitting

- 3. Video Format : MPEG4 or JPEG.
- 4. Access Name: RTSP output name
- b. Streaming 1 Advanced Mode :

Video Setting			
Streaming 1 Setting			
🔘 Basic Mode 🛛 💿 Ad	dvanced Mode		
Resolution:	4CIF - 704x480 💟		
Bitrate Control Mode:	⊙ CBR ○ VBR		
Video Quantitative:	7		
Video Bitrate:	1.5Mbps 🔽		
Video Frame Rate:	25 FPS 🔽		
GOP Size:	1 X FPS 🛛 GOP = 25		
Video Format:	MPEG4 🔽		
Access Name:	rtsp://< <ip>>/</ip>		



1. Resolution :

There are 4 resolutions to choose.

		NTSC	/	PAL
D1	_	720×480	/	720×576
4CIF	—	704×480	/	704×576
CIF	_	352×240	/	352×288
QCIF	_	176×120	/	176×144

2. Bitrate Control Mode

There are CBR (Constant Bit Rate) and VBR (Variable Bit Rate) to use.

CBR : 64Kbps~4Mbps – Increase CBR to increase the picture qulity; vise versa

VBR : 1(Low)~10(High) – Compression rate, the higher the compression rate, the lower the picture quality is; vise versa. The balance between VBR and network bandwidth will affect picture quality. Please carefully select the VBR rate to avoid picture breaking up or lagging.

- Video Frame Rate
 Picture display frame per second
 NTSC: Max 30 frames/second
 PAL: Max 25 fram
 - NTSC: Max 30 frames/second PAL: Max 25 frames/second
- 4. GOP Size

It means "Group of Pictures". The higher the GOP is, the better the quality is.

- Video Format : There are 2 Video Format to choose MPEG4 or JPEG.
- 6. Access Name: RTSP output connecting route



c. Streaming 2 Basic Mode :

Streaming 2 Setting	
💿 Basic Mode 🛛 🔘 Adu	vanced Mode 🛛 3GPP Mode 🔿 Close
Resolution:	D1 - 720x480 💙
Quality:	Best 💌
Video Frame Rate:	0 FPS 🔽
Video Format:	MPEG4 🔽
Access Name:	v2 rtsp://< <ip>>/v2</ip>
3GPP:	3g rtsp://< <ip>>/3g</ip>
	Apply

1. Resolution :

There are 4 resolutions to choose.

		NTSC	/	PAL
D1	_	720×480	/	720×576
4CIF	_	704×480	/	704×576
CIF	_	352×240	/	352×288
QCIF	_	176×120	/	176×144

2. Quality :

There are 5 levels to adjust:

Best/ High/ Standard/ Medium/ Low

The higher the quality is, the bigger the file size is. Also not good for internet transmitting

- 3. Video Format : MPEG4 or JPEG
- 4. Access Name: RTSP output connecting route
- 5. 3GPP: 3GPP output name

d. Streaming 2 Advanced Mode :

Streaming 2 Setting	
🔘 Basic Mode 🛛 💿 Ad	vanced Mode 🛛 3GPP Mode 🔿 Close
Resolution:	D1 - 720x480 💉
Bitrate Control Mode:	📀 CBR 🔘 VBR
Video Quantitative:	7
Video Bitrate:	128Kbps 🔽
Video Frame Rate:	5 FPS 🗸
GOP Size:	1 X FPS 💙 GOP = 5
Video Format:	MPEG4 💌
Access Name:	v2 rtsp://< <ip>>/v2</ip>
3GPP:	3g rtsp://< <ip>>/3g</ip>
	Apply



1. Resolution :

There are 4 resolutions to choose.

		NTSC	/	PAL
D1	_	720×480	/	720×576
4CIF	_	704×480	/	704×576
CIF	_	352×240	/	352×288
QCIF	_	176×120	/	176×144

2. Bitrate Control Mode

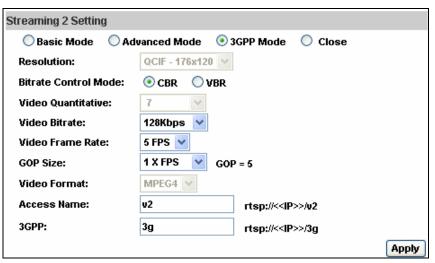
There are CBR (Constant Bit Rate) and VBR (Variable Bit Rate) to use.

CBR : 64Kbps~4Mbps (the higher the CBR is, the better the video quality is)

VBR : 1~10 (Compression Rate)

- 3. Video Frame Rate The video refreshing rate per second.
- GOP Size It means "Group of Pictures". The higher the GOP is, the better the quality is.
- 5. Video Format : MPEG4 or JPEG
- 6. Access Name: RTSP output name
- 7. 3GPP: 3GPP output name

e. Streaming 2, 3GPP mode:



3GPP mode suggest setting: QCIF, lower than 128kbps, 5FPS, GOP= 1x FPS or 2x FPS, MPEG4 format



- 1. Fix Resolution : QCIF – 176×120 / 176×144
- Bitrate Control Mode
 There are CBR (Constant Bit Rate) and VBR (Variable Bit Rate) to use.
 CBR : 64Kbps~4Mbps (the higher the CBR is, the better the video quality is)

VBR : 1~10 (Compression Rate)

- 3. Video Frame Rate (5 FPS is recommended) The video refreshing rate per second.
- GOP Size It means "Group of Pictures". The higher the GOP is, the better the quality is.
- 5. Video Format : MPEG4 or JPEG
- 6. Access Name: RTSP output name
- 7. 3GPP: 3GPP output name
- iv 🔻 Audio :

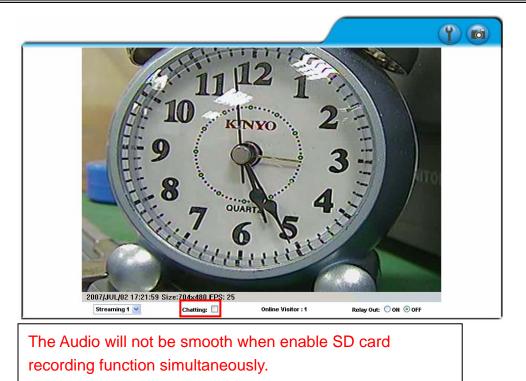
IP Vandal Dome supports 2-way audio.

 a. For IP camera to local PC, select "Enable" to start this function (When enabled, you can send audio via external mic in the IP Camera)

	Audio	
IP Camera to PC	:	
Enabled	O Disabled	Apply

b. For local PC to IP camera, check "chatting" in the browsing page (You will need a mic to send audio from local PC to IP Camera)







D.Event List

IP Vandal Dome provides multiple event settings.

i · Event Setting

	Event Setting
Motion Detection	
Area Setting:	Area 1 Area 2 Area 3
Sensitivity:	5 5 5
🗹 Area 1:	E-mail FTP Out1 Save to SD card
Area 2:	E-mail FTP Out1 Save to SD card
Area 3:	E-mail FTP Out1 Save to SD card
Subject:	IP Camera Warning!
Interval:	10 sec 💙
Record Time Sett	ing
Pre Alarm:	5 sec 💙 Post Alarm: 5 sec 💙
Network IP Check	(
IP Check:	C Enabled O Disabled
IP Address:	www.google.com
Interval:	30 sec 💙
IP Check:	Save to SD card Apply

a. Motion Detection

IP CAMERA allows 3 areas motion detection. When motion is triggered, it can send video to some specific mail addresses, transmit video to remote ftp server, trigger the relay, and save video to local SD card. To set up the motion area, click "Area Setting". Using mouse to drag and set the area. The same operation for area 2 and 3.

- b. Record Time Setting : Pre Alarm and Post Alarm setups for video start and end time when motion detected, I/O, or other devices got triggered.
- Network Dis-connected
 When the network is down, it will save the video to local SD card.
 This function is only enabled in wire connection.



d. Network IP check

For the use of recording software, IP CAMERA supports the detection of network connection. Whenever the connection is down, it records the video to SD card. To use this function, key in the IP address of the PC which is installed in the recording software, and enable the function of "Save to SD card", then click "Apply". The interval of two video files on SD card is fixed with 30 seconds.

ii v I/O Setting

IP Camera supports 1 input/ 1 output. When input is triggered, it can send the video to some specific mail addresses, transmit the video to remote ftp server, trigger the relay, and save video to local SD card.

	I/O Setting	
Input Setting		
Input 1 Action:	E-mail FTP Out1 Save to SD card	
Subject:	GPIO In Detected!	
interval:	10 sec 💌	
Output Setting		
Mode Setting:	OnOff Switch O Time Switch	
Interval:	10 sec 😒	
		Apply

iii、 Mail & FTP

To send out the video via mail of ftp, please set up the configuration first.

Mail Setting		
Mail Server: Username: Password: Sender's Mail: Receiver's Mail: Bcc Mail:		
TP Setting		
FTP Server: Username: Password:		
Port:	21	
Path:	1	



iv 、 SD card

Please Insert SD card before use it. Make sure pushing SD card into the slot completely.

Note : The use of the SD card will affect the operation of the IP Vandal Dome slightly, such as affecting the frame rate of the



a. Playback :

		Playback
19700101	20060417	
	SD Card	1: << 878M / 982M >>

1. It will show the capacity of the SD card. Click the date listed on this page. It will show the list of the video.

2006/04/17			
Time	Video	Event Type	
09:05:22	090522f.avi	Network Dis-connected	
09:05:52	090552f.avi	Network Dis-connected	
09:06:22	090622f.avi	Network Dis-connected	14
09:06:52	090652f.avi	Network Dis-connected	
09:07:22	090722f.avi	Network Dis-connected	
09:07:52	090752f.avi	Network Dis-connected	
09:08:22	090822f.avi	Network Dis-connected	14
09:08:51	090851f.avi	Network Dis-connected	
09:09:21	090921f.avi	Network Dis-connected	
09:09:51	090951f.avi	Network Dis-connected	

- 2. The video format is AVI. Click the video to start Microsoft Media Player to play it.
- 3. To delete the video, check it, then click Del. When the SD card is full, it will remove the oldest video automatically.

v 🔻 Log List

3	
Log List	
System Logs	
	Logs
Motion Detection Logs	
	Logs
I/O Logs	
	Logs
All Logs	
	Logs

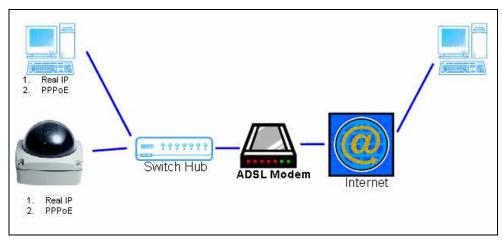
Sort by System Logs, Motion Detection Logs and I/O Logs. In addition, System Logs and I/O Logs won't lose data due to power failure.



i١

VI. Network Configuration

- Configuration 1 :
- a. Internet Access : ADSL or Cable Modem
- b. IP address : One real IP or one dynamic IP
- c. Only IP Vandal Dome connects to the internet
- d. For fixed real IP, set up the IP into IP Vandal Dome. For dynamic IP, start PPPoE.

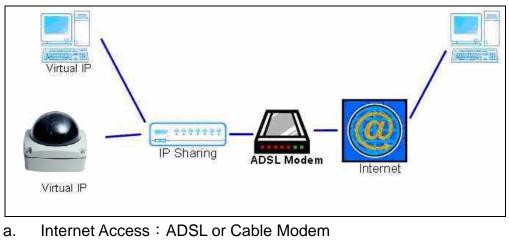


ii Configuration 2 :

- a. Internet Access : ADSL or Cable Modem
- b. IP address : More than one real IP or one dynamic IP
- c. IP Vandal Dome and PC connect to the internet
- d. Device needed : Switch Hub
- e. For fixed real IP, set up the IP into IP Vandal Dome and PC. For dynamic IP, start PPPoE.



iii
Configuration 3:

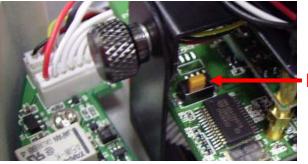


- b. IP address : one real IP or one dynamic IP
- c. IP Vandal Dome and PC connect to the internet
- d. Device needed : IP sharing
- e. Use virtual IP, set up port forwarding in IP sharing.



VII. Factory Default

- i To recover the default IP address and password, please follow the following steps.
- ii Press and hold the button in the back of IP Vandal Dome.



Factory Default

- iii Power on the camera. Don't release the button during the system booting.
- iv > It will take around 30 seconds to boot the camera.
- $v \sim$ Release the button when camera finishes proceed.
- vi Re-login the camera using the default IP (<u>http://192.168.1.200</u>), and user name (admin), password (admin).

VIII.Package contents

- i > IP Vandal Dome Network Camera
- ii · Adaptor
- iii 、 Ethernet Cable
- iv 、 CD title (User manual, IP installation Utility)



Appendix I

SD Card Recommended :

SanDisk 128M SanDisk 256M SanDisk 512M SanDisk 1G SanDisk 2G SanDisk 4G Transcend 128M 80X Transcend 256M 80X Transcend 512M 80X Transcend 1G 80X Transcend 2G 80X Transcend 4G 80X