

User's Manual



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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rul es. These limits are designed to provide reasonable protection against harmful interference in a re sidential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accorda nce with the instructions, may cause harmful interference to radio communications. However, there is n o guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning t he equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio technician for help.

FCC Caution

To assure continued compliance. (Example-use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the Following two conditions: (1) This device may not cause harmful interference, and (2) this Device must accept any interference received, including interference that may cause undesired operation.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to a void the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.



Safety

This equipment is designed with the utmost care for the safety of those who in stall and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

CE Mark Warning



This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Revision

User's Manual for PLANET Full HD PoE Box IP Camera Model: ICA-2200 Rev: 1.0 (July. 2012) Part No. EM-ICA2200 Series_v1.0



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Chapter 1. Product

Introduction

1.1. Package Contents

The following items should be contained in the package:

- ICA-2200 / Full HD PoE Box IP Camera x 1
- Power Adapter x 1
- Camera Mount Kit x 1
- User's Manual CD x 1
- Quick Installation Guide x 1
- Screw Packet x 1
- A/V cable x 1

NOTE: 1. If any of the above items are missing, please contact your dealer immediately.

2. Using the power supply that is not the one included in Internet Camera package will cause damage and void the warranty for this product.

1.2. Product Description

Superb Full HD Quality for Professional Surveillance

The PLANET ICA-2200 (or "Internet Camera" in the following section) is a Full HD camera for a wide range of video surve illance over IP networks. It supports H.264, MPEG-4, and M-JP EG compression formats to deliver excellent picture quality in 1080 P resolutions at 30 frame s per second (fps). Superb 1080P video quality is provided with progressive scan in multiple individual streams, 16:9 aspect ratio and frame rate. The ICA-2200 offers high-performing video surveillance in both indoor and outdoor applications. It is perfect for securing locations such as buildings, roads, parking areas, garages, railway stations, airports and more.



Full HD Resolution



Day & Night Surveillance

The ICA-2200 features an automatic, removable infrared-cut filter to p rovide color video when there is sufficient light, and black/white video in dark conditions. The ICA-2200 is able to maintain clear images 24 hours a day.





Extraordinary Image quality

Together with powerful image processing attr ibutes like Wid e Dynamic Range (WDR) and 3-Dimension Noise Reduction (3DNR) technology, the ICA-2200 is able to filter the intense backlight surrounding a subject and remove noises from video signal. Thus, an extremely clear and exquisite picture quality can be produced even under any challenging lighting conditions.







Advanced event management

The ICA-2200 supports a number of advanced features that enhance the camera flexibility and capabilities. The Auto-Iris function improves the image quality and avoid over exposure. The AV output enables 2-Way audio communication. The embedded micro SD/SDHC card slot facilitates the image storage locally. It also provides the RS-485 interface for an optional pan/tilt enclosure connection to effectively perform pan/tilt management. The inputs/outputs interface in the ICA-2200 can connect to external devices such as door sensors and relays to activate light or close doors automatically.

Flexible installation and Power functionality

The ICA-2200 incorporates 802.3af Power over Et hernet standard so it can be powered via the network cable, eliminating the need for powe r cables and redu cing installation costs. The ICA-2200 is ONVIF com pliant and therefore is interroperable with other brands in the market. It also includes the 64 chan nel central management software for efficient surveillance monitoring. The ICA-2200 is indisputably the top choice for reliable and high performance surveillance.



1.3. Product Features

> Camera

- 1 / 2.7" Progressive 2MP CMOS sensor
- 3.3~12 mm Vari-focal, Auto-iris Lens
- 0.5 lux Minimum Illumination at F1.4
- Maximum resolution 1920 x 1080
- Removable IR-cut Filter for Day & Night Function
- CS- or C-mount Adjustment Ring for Flexible Lens Installation

> Video / Audio

- H.264 / MPEG-4 and M-JPEG video compression simultaneously
- Simultaneous multi-stream support
- H.264 high profile, main profile and baseline
- Max. Resolution 1080P at 30fps
- 3DNR to improve picture quality at low Lux
- WDR Enhancement for enhance visibility under extremely bright or dark environments
- Two-way audio support with enhanced audio quality

> Network and Configuration

- Compliant with IEEE 802.3af PoE interface for flexible deployment
- Auto MDI/MDI-X supported
- Support for IPv6 in addition to the standard IP protocol version 4
- RTSP / UPnP / 3GPP / HTTPS protocols selectable

Easy Installation & Management

- ONVIF compliant for interoperability
- Built-in Samba client for NAS
- 3GPP for 3G mobile remote applications
- RS485 interface for P/T scanner control
- Digital Input/Outputs for integration with sensors and alarm
- Cam Viewer 3 Central management software supported



1.4. Product Specification

Model	ICA-2200				
Camera					
Image device	1/2.7" progressive scan CMOS sensor				
Lens	Vari-Focal 3.3~12mm, F1.4 DC Auto-Iris, CS mount Mechanical IR Cut Filter Angle of view (horizontal Field): 79.3°x 29.8°				
Minimal Illumination	0.5 lux @ F1.4				
Effective Pixels	1920 x 1080 pixels				
Image					
Video Compression	H.264 / MPEG-4 / M-JPEG				
Video Resolution	1080P mode H.264: 1080P / 640 x 360 / 320 x 180 / 160 x 90 M-JPEG: 1080P / 640 x 360 / 320 x 180 / 160 x 90 MPEG4: 640 x 360 / 320 x 180 / 160 x 90 720P mode H.264: 1280 x 720 / 640 x 360 / 160 x 90 M-JPEG: 1280 x 720 / 640 x 360 / 160 x 90 MPEG4: 640 x 360 / 160 x 90				
Frame Rate	Up to 30fps for all resolutions				
Image Setting	AE, AWB 3D Noise reduction WDR Color, brightness, sharpness, contrast Mirror / Flip 8 Privacy Masks Text, time and date overlay				
Streaming	Simultaneously multi-profile streaming Streaming over UDP, TCP, or HTTP M-JPEG streaming over HTTP (server push) Supports 3GPP mobile surveillance (MPEG4) Controllable frame rate and bandwidth Constant and variable bit rate (MPEG4 / H.264) ROI				
Audio					
Audio Streaming	2-Way Audio				
Audio Compression	RTSP: G.711 64kbps, G.726 32kbps 3GPP: AMR				
Microphone	External microphone input				
Audio Output	Adjustable audio output gain				
Network and Configuration					
Standard	IEEE 802.3 10Base-T				



	IEEE 802.3u 100Base-TX			
Protocol	IPv4, IPv6, TCP/IP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, IGMP, PPPoE, 3GPP, ICMP, Samba			
Security	Password protection, IP address filtering, HTTPS encrypted data transmission, user access log			
Users	20 clients on-line monitoring at the same time			
System Integration				
Application Programming Interface	Open API for software integration ONVIF Compliant			
Alarm Triggers	Intelligent video motion detection and external input			
Alarm Events	File upload via FTP, Samba to NAS, SD card or email Notification via email, HTTP, and TCP External output activation Audio alerting output Pre and post-alarm buffering			
General				
Power Requirement	12V DC, 1A IEEE 802.3af Class 3			
Power Consumption	6W max.			
Operating Temperature	0 ~ 50 Degree C			
Operating Humidity	20 ~ 80% (non-condensing)			
Weight (include LENS)	392g			
Dimension (W x D x H)	58 x 125 x 62 mm			
Emission	CE, FCC			
Connectors	10/100Mbps Ethernet, RJ-45 DC power jack Terminal block for 1 alarm input and 1 output RS-485 interface for pan/tilt scanners control External MIC input Audio output Composite video output Micro SD/SDHC card (Max 32GB, Class 6) Factory default reset			



Chapter 2. Hardware Interface

2.1. Front View



1	Lens	User could adjust the focus to get the best picture quality.				
2	Internal Microphone	The Camera has built-in an in ternal microphone. This microphone is hidden in the pinhole located on the front panel.				
3	Back Focus Ring	Adjust this ring to adapt focus of C/CS mount lens				





2.2. Rear View



1.	MIC In	Connect an external microphone to the network camera.
2.	Audio Output	Connect a loud spe aker to the network cam era. This function is for alerting sound and two-way audio.
		The input power is 12VDC.
3.	DC Power	Note that supply the power to the Camera with the power adapter included in package. Otherwise, the improper power adapter may damage the unit and result in danger.
4	Micro SD Card Slot	User can insert a micro SD card into this slot for event recording.
5	LAN Socket	The LAN socket is a RJ-45 connector for connections to 10Base-T Ethernet or 100Base-TX Fast Ethernet cabling. This Ethernet port supports Auto-Negotiation can detect or negotiate the transmission speed of the network automatically. Please use Category 5 cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub. The LAN port also supports IEEE802.3af class 3 Power over Ethernet capability that can direct connect with standard IEEE802.3af mid-span / end-span PSE
		(Power Sourcing Equipment) device. No DC power required if the ICA-2200 is connected with 802.3af PSE.



In the LAN socket, there are two LEDs embedded: **Power LED (orange color)**

This LED is used to indicate whether DC power is on or not.

LAN LED (green color)

This LED will be flashing while network accessing via Ethernet.

Sometimes restarting the device will make the system back to a normal state. However, if the system still got problems af ter restart, user can restore the factory default settings and install it again.

Restore the device:

Factory 6 Default Reset

DI/DO

Connector

7

8

1. Make sure the Camera is ready first. Insert the p aper clip or other suitable tool to press and hold the button down continuously.

2. Hold it least 5 seconds and release the tool. Then the device has been restored to default settings and reboot again.

Note: Restoring the factory default set ting will lose the all previous settings included IP address forever. User needs to run the IPWiza rd II program to search the device and configure it to let the device work properly again.

The Internet Camera provides a terminal block with 6 pins of connectors for DI, DO, and RS485. Please refer to the Appendix A in this manu al for more information.

Cable for I/O connectors:

Name	Number	Function
12VDC	1	DC 12V (50mA maximum)
DI	2	Digital signal input
GND	3	GND
DO	4	Digital signal output
485+	5	RS485 data +
485-	6	RS485 data -

Video Out The Internet Camera also provides composite video output. The video output function is only for easy installation to check view angle and focus. The output is not a Mega-pixel resolution. Furthermore, the video output is off by default. To turn on video, please refer to Setting\Camera\Picture chapter.

9 DC Iris The Internet Camera supports DC-Iris control.



2.3. Hardware Installation

1. Fix the included stand to desired location

2. Attach the Camera to the stand

3. Plug an Ethernet cable into the Camera

Connect an Ethernet cable to the LAN socket located on the camera 's rear and attach it to the network.

4. Connect the external power supply to Camera

Connect the included power adapter to the DC power jack of the camera.



Use the power adapter, 12VDC, included in the package and connect it to wall outlet for AC power. If the ICA-2200 is connected with IEEE802.3af Power over Ethernet device such as PoE injector or PoE Switch, DC power is not required. Either power the ICA-2200 from local DC power or PoE unless for purpose.

5. Done

Once you have installed the camera well and powered it on, the Power LED (orange) will turn on late r. Once the Power LED turned o n, it means the syste m is bootin g up successfully. Furthermore, if you have a proper network connection, and access to the camera, the LAN LED will flash green.



Chapter 3. Initial Utility Installation

This chapter shows how to quick set up your Internet camera. The Internet camera is with the default settings for the first time power on.

Default IP: DHCP Client OR 192.168.0.20 (if NO DHCP server existed in the network) Username: admin Password: admin

However, if you are not fa miliar with network setting and to help you find the networke d Internet camera quickly, the windows utility **PLANET IP Wizard II** can search the cameras in the network that shall help you to configure some basic setting before you started advanced management and monitoring.

- 1. Insert the bundle d CD into the CD-ROM driv e to launch the auto-run p rogram. Once completed, a welcome menu screen will appear.
- 2. Click the "IP Wizard II" hyperlink; you will see the dialog box as below.

NOTE: If the welcome screen does not appear, click "Start" at the taskbar. Then, select "Run" and type "D:\Utility\IPWizard II\setup.exe", assume D is your CD-ROM drive.

3. The "Welcome to the InstallShield Wizard for PLANET IP Wizard II" prompt will display on the screen and click "**Next**" to continue.





4. Please click "**Next**" to install with original settings, or you may click " **Change...**" button to modify the install folder then press "Next" to continue.

1🖟 Setup - PLANET IP Wizard II
Select Destination Location Where should PLANET IP Wizard II be installed?
Setup will install PLANET IP Wizard II into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\PLANET IP Wizard II Browse
At least 9.7 MB of free disk space is required
Aureasu 9.7 mb of free disk space is required.
< <u>B</u> ack <u>N</u> ext > Cancel



5. Please click "**Install**" to start the installation.

15 Setup - PLANET IP Wizard II	
Ready to Install Setup is now ready to begin installing PLANET IP Wizard II on your computer.	J.
Click Install to continue with the installation, or click Back if you want to review change any settings.	or
Destination location: C:\Program Files\PLANET IP Wizard II Additional tasks: Additional icons: Create a desktop icon	2
< Back Install	Cancel

6. Please click "Finish" to complete the installation and launch program immediately.





3.1. Preparation

When you installed the Internet Camera on a LAN environment, you may execute PLA NET IP Wizard II to discover camera's IP address and set up related parameters in the camera.

3.1.1. Search and View by PLANET IP Wizard II

When you installed the Internet Camera on a LAN environment, you have two easy ways to search your cameras by PLANET IP Wizard II or UPnP discovery. Here is the way to execute PLANET IP Wizard II to discover camera's IP address and set up related parameter in a camera.

✓ Search

PLANET IP Wizard II	Version 3.0.0.7974		Interface : 10.1.1.210	00
Device Title	IP Address	Port	MAC	
	Comoroi			
SEARCH C	Model Name:		User Name: admin	
VIEW O	Network:			
LAN	DHCP:	·		
WIRELESS	WiFi:	[No Signal	
EXIT	Connection:	,		
	Device ID (for DIPS):			



When launch the Planet IP Wizard II, a searching windows will pop up. Planet IP Wizard II is starting to search Internet Cameras on the LAN. The existed devices will be listed as below.

PLANET IP Wizard II	Version 3.0.0.7974		Interface : 10.1.1.210	00
Device Title	IP Address	Port	MAC	
ICA-2200	192.168.0.20	80	00-30-4F-A2-5F-06	
ICA-310	192.168.0.33	80	00-30-4F-A1-00-1E	
ICA-H610	192.168.0.61	80	00-30-4F-C3-D8-E5	
Se	arching			
	66	2		
SEARCH Q	Camera:		User Name: admin	
MIEW	Model Name:		Password:	-
	Network:			
LAN				
	DHCP:			
WIRELESS	WiFi:		No Signal	
EVIT	Constant Inc.		_	
EAH	Connection:			
	Device ID (for DIPS):			
	0			





✓ View

If Planet IP Wizard II finds Internet Camera, View button will be available. Please select the camera you want to view, key in the user name, password, i.e. "**admin**" by default and click the View button. Then you could see the Video from camera directly. Furthermore you could double click the left button of mouse to link to the Internet Camera by browser.

PLANET IP Wizard II	Version 3.0.0.7974		Interface : 10.1.1.210	00
Device Title	IP Address	Port	MAC	
ICA-2200	192.168.0.2	0 80	00-30-4F-A2-5F-06	
SEARCH 🔍	Camera:		User Name: admin	
	Model Name:	ICA-2200	Password:	
	Network:	Wired		
LAN	DHCP:	OFF	-	-
WIRELESS	WiEi.	Ethernet Only		and a state
	wiri.	Luternet Only		1
EXIT	Connection:	Not Connected		
	Device ID (for DIPS):	N/A		

In case you want to change the IP related parameters of wired interface, please select the Internet Camera you want to configure and click the LAN button. Relative settings will be carried out as below.



🧈 PLANET IP Wizard II	Version 3.0.0.7974			Interface : 10.1.	1.210 🖯 🤅
Device Title	IP Address		Port	MAC	
ICA-2200	192.168	.0.20	80	00-30-4F-A2-	5F-06
ICA-310	192.168	.0.33	80	00-30-4F-A1-	00-1E
ICA-H610	192.168	.0.61	80	00-30-4F-C3-	D8-E5
SEARCH Q	LAN: Network: IP Address:	Static 192.16	IP ODHCP 58.0.20	IP Password:	admin
LAN	Subnet Mask: Gateway:	255.29	55.255.0		
	DNS1:	168.9	5.1.1	No	Signal
	DNS2:	168.9	5.1.2		

In case, you do not want to change username and/or password, then just click "**Submit**" button to perform your setting accordingly. Click "<<" button will go back to previous page. If you like to change username and/or password of the device, just click the check button. Then,

the related fields will show up as below.



After keying in new username and p assword, click "**Submit**" button to perform your se tting accordingly. Click "<<" button will go back to previous page.



3.2. Using UPnP of Windows XP or Vista or Win7

UPnP[™] is short for Universal Plug a nd Play, which is a n etworking architecture that provides compatibility among networking equipment, software, and perip herals. This device is an UPnP enabled device. If the operating system, Windows XP, of your PC is UPnP enabled, the device will be very easy to configure. Use the following steps to enable UPnP settings only if your operating system of PC is running Windows XP.

NOTE: Please notice that MS Windows 2000 does not support UPnP feature.

To discover your device, go to your Computer and click Network.

🔾 🗢 🗣 🕨 Network 🕨		- 4 Search Network	9
Organize 👻 Network and Sharing Center	Add a printer Add a wireless device		•
 ★ Favorites ▲ Favorites ▲ Desktop ▲ Downloads ④ Downloads ④ Recent Places ◯ Documents ④ Music ④ Pictures ☑ Videos ★ Local Disk (C:) □ Local Disk (C:) □ BLACKBERRY (F:) 	 Computer (3) Media Devices (2) Other Devices (6) Unknown Device Print Server PS-038880 Print Server PS-567799 ICA-2200 -00304FA25F ICA-2200 -00304FA25F ENM BRANDON NAS-7201 Printers (1) 		
12 items			

Click the targeted Device. Then Internet Explorer will connect to this IP Camera automatically.



Chapter 4. Installation Guide

4.1. System Requirements

The Internet Camera can be monitoring on all of Windows operating system that sugg est with system requirment below in order to got better video performance.

Network Interface	10/100Base-TX Ethernet
Monitoring System	Recommended for Internet Explorer 8.0 or later
System Hardware	 · CPU: Intel® Core™ i3 Processor or faster · Memory Size : 2GB or more
	 VGA card resolution : 1920 x 1080 or higher VGA card memory : 1GB or above

- **NOTE:** 1. The listed information is minimum system requirements only. Actual requirement will vary depending on the nature of your environment.
 - The ICA-2200 series can be managed by PLANET IP Wizard II if you want to configure more detail information and settings of PLANET IP Wizard II software please refer to the CD-ROM folder "D:\Utility\IPWizardII\setup.exe", assume D is your CD-ROM drive.



4.2. Before You Begin

The Internet Camera can be configured with your Web Browser. Before configure, please make sure your PC is under the same IP segment with Internet Camera.

4.2.1. Connecting to Internet Camera

- Use the following procedure to establish a connection from your PC to the Internet Camera.
- Once connected, you can add the camera to your Browser's Favorites or Bookmarks.

Start the web browser on the computer and type the IP address of the camera. The Default IP: "<u>http://192.168.0.20</u>"



If your network is with DHCP server, by default, your DHCP server will provide an IP address for ICA-2200. Please check the DHCP server's status page for the real

NOTE: IP address of the ICA-2200. Or through the IP Wizard II to get the IP information. The ICA-2200 will use IP address 192.168.0.20 only if there is no DHCP server existed in the connected network.

The login window of Internet Camera will appear, Default login **username/password** is: **admin / admin**

NOTE:

Windows Security	X
The server 192.1	L68.0.20 at IPCam requires a username and password.
	User name Password Remember my credentials
	OK Cancel

If the User name and Password have been changed with PLANET IP Wizard II, please enter the new User name and Password here.



After logged on, you should see the following messages at the top of Internet Explorer:



Click on the message, and click Run Add-on

🤌 PLANET IP Surveillance Web Management - Windows Internet Explorer									
🚱 🔄 💌 🔊 http://192.168.0.20/									
<u>File Edit Yiew Favorites Tools H</u> elp	File Edit Yiew Favorites Iools Help								
😪 Favorites 🛛 🍘 PLANET IP Surveillance Web Management									
? This website wants to run the following add-on: FLANET Media Control' from FLANET Technology Corporation'. If you trust the website and the add-on and want the add-on and want the add-on and want the add-on and want the add-on add add add add add add add add add ad									
	<u>K</u> ul Aut-on								
	What's the Risk?								
Networking & Communication									
	Information Bar Help								

When you see this message, click **Run**' to install required ActiveX control

Internet	Explorer - Security Warning					
Do you	want to run this ActiveX control?					
Nar	me: PLANET Media Control					
Publish	Publisher: PLANET Technology Corporation					
	<u>R</u> un <u>D</u> on't Run					
۲	This ActiveX control was previously added to your computer when you installed another program, or when Windows was installed. You should only run it if you trust the publisher and the website requesting it. <u>What's the risk?</u>					

After the ActiveX control was installed and run, the first image will be displayed.

You should be able to see the images captured from the Internet Camera in the web page now. For advanced functions, please refer to instructions given in follows chapters.

If you log in the camera as an ordinary user, setting function will be not available. If **NOTE:** you log in the camera as the administrator, you can perform all the settings provided within the device.





Chapter 5. Web Configuration

for Live View

5.1. Live View

Start-up screen will be as follow no matter an ordinary users or an administrator.



Monitor Section	Image	The image shot by the camera is shown here. The date and time are displayed at the top of the window.
Video Profile	•	The camera support multi-profile for three compressions H264, MEPG-4 and M-JPEG simultaneously. User can chose the proper and/or preferred profile here.
Full Screen		Click this button to display the image in full-screen mode (uses every available space to display the image captured by this camera).
2-Way Audio	1	The Internet Camera supports 2-way audio function. User can chose to enable or disable this function by toggling the icon below





[) : Enable audio uploading function.
---	--	--------------------------------------

ActiveX Control The plug-in ActiveX control supports a lot of functions by clicking the left mouse button. Note that this feature only supports on the ActiveX control within Microsoft® Internet Explorer.

Setting Menu This function is detail setting for the camera that only available for user logged into camera as administrator.

	ltem	Action			
	Network	Configure Network settings such as IPv6, ONVIF, DHCP, DDNS, 3GPP, PPPoE and UPnP.			
	Camera	Adjust camera parameters.			
	System	Configure system information, date & time, maintenance, and view system log file.			
	Video	Configure bit rate and frame rate of video profiles.			
	Audio	Configure audio parameters.			
	User	Setup user name, password and login privilege.			
	E-Mail	Setup E-Mail configuration.			
	Object Detection	Setup Object detection.			
	Storage	Status and configuration of SD card a nd Samba server.			
	Continuous Recording	Files list inside the SD Card and Samba server.			
	Recording List	Files list inside the SD Card.			
	Event Server	Setup FTP/TCP/HTTP/Samba server for event			
	Event Schedule	Configure the schedule while event triggered.			
Streaming Protocol	User can select p environment.	roper streaming protocol according to networking			
Language	The device could requirement.	provide multiple lan guages to meet customer's			





Client Setting:	Click this button to display the client e xtra control panel for 2-way Audio and Full Screen.
Video Information	Display video information inclu ding video format, resolution, fram e rate and bit rate.

5.2. ActiveX Control

The plug-in ActiveX control supports a lot of functions by clicking the left mouse button. Note that this feature only supports on the ActiveX control within Microsoft® Internet Explorer.

On the ActiveX control icon, click the Left Mouse Button, then a menu pop-up. This menu provides features that are unique to the ActiveX control. These features include:

- Digital Zoom,
- Snapshot,
- Record,
- Volume,
- About



5.2.1. Digital Zoom

Click **Digital Zoom** to active this function as above. User can drag or scale the box over the video to adjust zoom ratio and position.





5.2.2. Snapshot

Click **Snapshot** to activate this function. Press **Snapshot** button to take a picture. The image file is saved as JPEG format into your local PC. Select **Browser**, the pop-up window to select the save path and file name prefix, select **OK** to continue.

If you like to retrieve the saved image, select the file to display the saved image by using any one of graph editing tools.



5.2.3. Record

Click **Record** to activate this function. Press **Record** button to start recording. The video file is saved as ASF format into your local PC. While you want to stop it, press **Stop** to stop recording. Select **Browser**, the pop-up window to select the save path and file name p refix, select **OK** to continue.

After stop recording, list the files, this file is named as Video_yyyymmddhhmmss.asf

The ASF files can be display by the standard Windows Media Player, but it needs the DixectX 9.0



or later version to be installed.





5.2.4. Volume

Click Volume to activate this function. These have two control bars for speaker and microphone volume. Scroll this control bar to adjust the audio attribute. Check the volume mute will mute the speaker output.



5.2.5. About

Click **About** to show the ActiveX information





Chapter 6. Configuration &

Operation

6.1. Network Configuration

6.1.1. Network

This section provides the menu of connecting the device through Ethernet cable.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
MAC	Address	3	00:30:	IF:A2:5F:06							
	Obtain IP a	iddress au	tomatically	(DHCP)							
IP A	ddress		192.16	8.0.20	Test						
Sub	net Mask		255.25	5.255.0							
Gate	way		192.16	8.0.1							
	Obtain DN	S from DHC	P								
Prim	ary DNS		168.95	51.1							
Seco	ondary DN	IS									
нтт	P Port		80		(1 ~ 655	35) Test					

MAC address	Display the Ethernet MAC address of the device. Note that user cannot change it.
Obtain an IP address automatically (DHCP)	Enable this checked box when a DHCP server is installed on the network to i ssue IP address assignment. With this setting, the IP address is assigned automatically. If this d evice cannot get an IP address within limited tries, the device will assign a default IP address for 192.168.0.20.
	If you do not select "O btain an IP address autom atically", then you need to enter these network parameters by yourself.



IP Address	This address is a unique numbers that identifies a computer or device
	on the WAN or LAN. T hese numbers are u sually shown in groups
	separated by periods, for example: 192.168.0.200

- Subnet Mask Subnets allow network traffic between hosts to be separated based on the network's configuration. In IP networking, traffic takes the form of packets. IP subnets advance network se curity and perf ormance to some level by organizing hosts into logical g roups. Subnet masks contain four bytes and usually appear in the same "dotted decimal" data. For e xample, a very comm on subnet ma sk in it s binary demonstration 1111111 1111111 1111111 00000000 will usually be shown in the corresponding, more readable form as 255.255.255.0.
- Gateway A gateway is a piece of software or hardware that passes information between networks. You'll see this term most often when you either log in to an Internet site or when you're transient email between different servers.
- ObtainDNSfromEnable this checked box when a DHCPserver is installed on theDHCPnetwork and provide DNS service.
- Primary DNSWhen you send email or position a browser to an Internet domain such
as xxxxx.com, the domain name system translates the names into IP
addresses. The term refers to two things: the conventions for naming
hosts and the way the names are control across the Internet.
- **Secondary DNS** The same function as DNS1. It is option not necessary
- HTTP PortThe device supports two HTTP ports. The first one is default port 80
and this port is fixed. This port is very useful for Intranet usage. The
second HTTP port is changeable. Users could assign the second port
number of http protocol, and the WAN users should follow the port
number to login. If the http port is not assigned as 80, users have to
add the port number i n back of IP addre ss. For example:
http://192.168.0.20:8080.

Therefore, the user can access the device by either http://xx.xx.xx.xx/, or http://xx.xx.xx.xx.xx/, or

If multiple devices are installed on the LAN and also required to be accessed from the WAN, then the **HTTP Port** can be assigned as the


virtual server port mapping to support multiple devices.

NOTE When the configuration is finish, please click "**OK**" to save and enable the setting.

6.1.2. IPv6 function

Internet Protocol version 6 (IPv6) is called the "IP Next Generation" (IPng), which is designed to fix the shortcomings of IPv4, su ch as data security and maximum number of user addresses. It is backward compatible and thus expected to slowly replace IPv4, with the two existing side by side for many years.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
IPv6			0 Directo	la 🙃 Eastal							
			UISADI	e e chabi	2						

IPv6 To enable or disable the IPv6 function here.

6.1.3. HTTPS

HTTPS: Stands for Hypertext Transfer Protocol Secure

HTTPS is a combination of the Hypertext Transfer Protocol with the SSL/TLS protocol to provide encrypted communication and secure identification of a network web server. HTTPS connections are often used for sensitive transactions in corporate information systems. The main i dea of HTTPS is to create a secure channel over an insecu re network. This en sures reasonable protection from eavesdroppers and man-in-the-middle attacks, provided that adeq uate cipher suites are used and that the server certificate is verified and trusted.



	Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
	HTTP	5		Disabl	e 🔍 Enable	•						
	Port			443		(1 ~ 65535)	Test					
Н	TTPS			To e func	enable of	or disable this devic	the H ceisno	ITTPS so ot only e	ervice I ncrypte	nere. No d the we	te that the H b content b	HTTPS out also
				aud	io/video	data.						

Port Choose the HTTPS port. The default value is 443.

6.1.4. DDNS server

Stands for Dynamic Domain Name Server

The device supports DDNS If your device is connected to xDSL directly, you might need this feature. However, if your device is behind a NAT router, you will not need to enable this feature. Because DDNS allows the device to use an easier way to remember naming format rather than an IP address. The name of the domain is like the name of a person, and the IP addre ss is like his phone number. On the Internet we have IP numbers for each host (computer, server, router, and so on), and we replace these IP numbers to easy remember names, which are organized into the domain name. As to xDSL environment, most of the users will use dynamic IP addresses. If users want to set up a web or a FTP server, then the Dynamic Domain Name Server is necessary. For more DDNS configuration, please consult your dealer.

Your Internet Service Provider (ISP) provides you at least one IP address which you use to connect to the Internet. The address you get may be static, meaning it never changes, or dynamic, meaning it's likely to chan ge periodically. Just how often it changes, dep ends on your ISP. A dynamic IP address complicates remote access since you may not know what your current WAN IP address is when you want to access your network over the Internet. The solution to the dynamic IP address problem comes in the form of a dynamic DNS service.

The Internet uses DNS servers to lookup domain names and translates them into IP addresses. Domain names are just easy to remember aliases for IP addresses. A dynamic DNS service is unique because it provides a means of updating your IP address so that your I isting will remain current when your IP address changes. There are several excellent DDNS services available on the Internet and best of all they're free to use. One such service you can use is www.DynDNS.org. You'll need to register with the service and set up the domain name of your choice to begin using it. Please refer to the hom e page of the service for detailed instructions or refer to Appendix E for



more information.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
DDNS			O Disabl	a 🔍 Enabla							
Serve	r Name		DI ANET D								
מחח	Host		F LEVILE 1 D		_ less tid de s	10	0.01-14-1				
DDING			_		planetoons	.com (6 ~ 1	6 Digits)				
User I	lame				(6~16 Digits)						
Passw	ord				(6~16 Digits)						
Intern	et Status										

DDNS	To enable or disable the DDNS service here.
Server name	Choose the built-in DDNS server.
DDNS Host	The domain name is applied of this device.
User Name	The user name is used to log into DDNS.
Password	The password is used to log into DDNS.

6.1.5. PPPoE

PPPoE: Stands for Point to Point Protocol over Ethernet

A standard builds on Ethernet and Point-to-Point network protocol. It allows Internet Ca mera connect to Internet with xDSL or cable connection; it can dial up your ISP and get a dynamic IP address. For more PPPoE and Internet configuration, please consult your ISP.

It can directly connect to the xDSL, however, it should be setup on a LAN environment to program the PPPoE information first, and then connect to the xDSL modem. Power on again, then the device will dial on to the ISP connect to the WAN through the xDSL modem.

The procedures are

- Connect to a LAN by DHCP or Fixed IP
- Access the device, enter Setting → Network → PPPoE as below





Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
PPPo	E		Disabl	e 🔍 Enable							
User	Name				(< 65 Digits)						
Pass	word				(< 65 Digits)						
IP Ad	dress				(readonly)						
Subn	et Mask				(readonly)						
Gatev	way				(readonly)						
Statu	IS				(readonly)						

PPPoE	To enable or disable the PPPoE service here.
User Name	Type the user name for the PPPoE service which is provided by ISP.
Password	Type the password for the PPPoE service which is provided by ISP.
IP Address / Subnet Mask / Gateway	Shows the IP information got from PPPoE server site.
Status	Shows the Status of PPPoE connection.

6.1.6. Streaming

RTSP is a streaming control protocol, and a starting point for negotiating transports such as RTP, multicast and Unicast, and for negotiating codecs. RTSP can be considered a "remote control" for controlling the media stream delivered by a media server. RTSP servers typically use RTP as the protocol for the actual transport of audio/video data.



Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
RTSP	Port		554		(554 ~ 65535	Test					
RTP F	ort		50000		~ 50999		(1024 ~ 655	35)			

RTSP Port	Choose the RTSP port. The RTSP pro tocol allows a connecting client to start a video stream. Enter the RTSP port number to use. The default value is 554.
RTP Port	Specify the range of transmission port number of video stream. The default range is 50000 to 50999. User can specify a number between 1024 and 65535.
NOTE	To use the 3GPP function, in addition to previous section, you might need more information or configuration to make this function work.
	The camera must be set as Multi-pro file mode, not Mega-pixe I mode. Otherwise this device cannot serve 3GPP stream.
	To use the 3GPP function, it strongly recommends installing the Networked Device with a public and fixed IP address without any firewall protection.
	Port 554 is the default for RTSP serv ice. However, sometimes, some service providers change this port number for some reasons. If so, use r needs to change this port accordingly.
Dialing procedure	1.Choose a verified player (Packe tVideo, Quicktime or Realplaye r currently)
	Use the following URL to access: rtsp://host/mpeg4/media.3gpWhere host is the host name or IP address of the camera.
Compatible 3G mobile phone	Please contact your deal er to get the approve d list of compat ible 3G phone.



6.1.7. UPnP

UPnP is short for Universal Plug and Play, which is a networking a rchitecture that p rovides compatibility among networking equipment, software, and perip herals. This device is an UPnP enabled Internet Camera. If your operating system is UPnP enabled, the device will automatically be detected and a new icon will be ad ded to "My Network Places." If you do not want to use the UPnP functionality, it can be disabled

In addition, this device also provide s UPnP IGD function for NAT traversal easily. Use NAT traversal when your device is located on an intranet (LAN) and you wish to make it available from the other (WAN) side of a NAT router. With NAT traversal properly configured, all HTTP traffic to an external HTTP port in the NAT router will be forwarded to the device.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification
UPnP			Oisable	e 💿 Enable						
Friend	ly Name		ICA-2200 - 00304FA25F06 (reado							
UPnPI	NAT Trave	rsal	Disable							
Port Range			32768 ~ 65535				(1 ~ 6553			
Extern	al IP Addr	ess					(reado	only)		

UPnP	To enable or disable the UPnP service here.
Friendly Name	Shows the friendly name of this device here.
UPnP NAT Traversal	When enabled, the device will attempt to configure port mapping in a NAT router on your network, us ing UPnP [™] . Note that UPnP [™] must be enabled in the NAT router first.
Port Range	The port range will open in NAT router.
External IP address	Show the IP address and port for WAN access through Internet. If NAT traversal is config ured successfully, user can use this I P address and port to access this device.





6.1.8. Bonjour

The Bonjour service allows IP camera can be discovered with Apple Safari browser applied, once the option enable the IP camera will be show the Friendly Name in the Bonjour bookmarks menu of Safari browser.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification
Bonjou	ır		O Dieabla	e 💽 Enable						
Friend	ly Name		ICA-2200 -	00304FA25F	06		(reade			
							(read	,		
, and the second se									, and the second se	

Bonjour	To enable or disable the Bonjour service here.
Friendly Name	Shows the friendly name of this device here.

6.1.9. ONVIF

ONVIF is a global and open industry forum with the goal to facilitate the development and use of a global open standard for the interface of physical IP-based security products. Or in other words, to create a standard for how IP products within video surveillance and other physical security areas can communicate with each other.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
ONVIF			Disabl	e 💿 Enable	e						
			• V1.0	V1.01/V1.	02/V2.0/V2.1.1						
0. N//E			-					с ,			
ONVIE			lo er	nable of	r disable t	ne ON	VIF inter	face he	re.		

Version Currently, the V1.0 or V1.01/1.02/V2.0/V2.1.1 is available.



6.1.10. IP Filter

You can enter different user's IP address which are allowing enter or denying by the device.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
IP Fil IP Fil	iter Iter Policy		● Disabl ● Deny Save	e • Enable • Allow	2						
			F	Filt	er IP List ete DeleteAll						

IP Filter To enable or disable the IP filter function here.

IP Filter Policy Choose the filter policy where is denying or allowing.



6.1.11. IP Notification

In case the IP address is changed, system is able to send out an email to allert someone if the function is enabled.



SMTP Notification (e-mail)	If enable this function, then the " Send to " and " Subject " field need to be filled.
Send To	Type the receiver's e-mail address. This address is used for reply mail.
Subject	Type the subject/title of the E-mail.
TCP Notification	If enable this function, then the " TCP Server ", " TCP Port ", and " Message " fields need to be filled.
TCP Server	Type the server name or the IP address of the TCP server.
TCP Port	Set port number of TCP server.
Message	The message will be sent to FTP server.
HTTP Notification	If enable this function, then the fields below need to be filled.
URL	Type the server name or the IP address of the HTTP server
HTTP Login name	Type the user name for the HTTP server.



HTTP Login Password	Type the password for the HTTP server.
Proxy Address	Type the server name or the IP address of the HTTP Proxy.
Proxy Port	Set port number of Proxy.
Proxy Login name	Type the user name for the HTTP Proxy.
Proxy Login Password	Type the password for the HTTP Proxy.
Custom parameter	User can set specific parameters to HTTP server.
Message	The message will be sent to HTTP server.



6.2. Adjust Camera Configuration

Use this menu to set the function of the camera of Internet Camera

6.2.1. Picture

Picture	Privacy Mask	PTZ Setting	Preset Setting	Tour Setting	
Rotat	ion	Normal	~		
White Balance		Auto 🚩			
Iris/E	xposure Control	Auto Iris	🗸 🔽 Calib	rate	
Maxir	num Exposure Tim	e 1/30 S 🗸			
Powe	er Frequency	● 50Hz • 6	OHz		
Color	Level		50 (0 ⁄	~ 100)	
Hue			50 (0 /	~ 100)	
Brigh	tness		50 (0 ×	~ 100)	
Contr	rast		50 (0 ⁄	~ 100)	
Sharp	oness		54 (0 ⁄	~ 100)	
3D De	-Noise	On 🚩			
ICR		Auto	~		
		Current Valu	e 4796 Refre	sh	
		Night Mode 1	Ibreshold 2000	(0 ~ 10000)	



Turn the "**Mirror**" and "**Vertical Flip**" On or OFF. The image will be overturned as below.





White Balance	Auto: will adjust the white balance automatically.				
Trinto Dalarioo	Hold: will hold the white balance.				
Iris/Exposure Control	This Camera is built-in a DC-Iris lens. User can choose the Iris control mode from "Auto" or "Off". In case, the "Auto" mode is selected, the Camera will control DC Iris automatically. On the h and, if the "Off" mode is selected, the Camera will open the lens Iris to maximize. Sometimes, the Auto Iris may work abnormally under some				
	environments. In this case, user can click "Calibrate" button to adjust Auto Iris function again.				
Maximum Exposure Time	User can limit the ma ximum exposure time of the image sensor. The larger value means longer exposure time possibly.				
Power Frequency	Frequency of power line: 50 or 60Hz.				
Color Level	Large value will be colorful.				
Hue	Change the value will result to color tuning.				
Brightness	Large value will brighten camera.				
Contrast	Large value will contrast camera heavily.				
Sharpness	Large value will sharpen camera.				
3D De-Noise	3D De-Noise can remove or lower unwanted noise and preserve fine details and edges.				
ICR	Use built-in photo sensor or manual to control ICR.				
	In case use r selects manual mode, there are 4 modes: Night (On), Day (Off), Auto or Schedule to control built-in IR LEDs. This function is very useful under low illumination environment even 0 Lux.				
	In case the Auto mode is selected, user needs to specify 3 parameters in advance:				
	Night Mode Threshold (0~10000): this value set the threshold to turn on IR LED. It should be lower or equal to Day Mode Threshold.				
	Day Mode Threshold (0~10000): this value set the threshold to turn off IR LED. It should be higher or equal to				



	Night Mode Threshold.			
	Delay Time: The delay time between LED ON/OFF switching.			
	Note: that Curre nt Value is the current lumina nce from the captured video. It's a u seful reference to set LED ON/OF F Threshold.			
Noise Reduction	This function is to reduce noise of input image.			
WDR	This function is to provi de clear images even under back light circumstances. The higher "Strength" level will adjust contrast compensation stronger.			
Default Settings	Restore to factory image settings.			





6.2.2. Privacy Mask

Use this page to specify privacy mask window 1 to window 8 and set the name and gray level for selected window.



Add and Delete	To add or delete the privacy mask windows, user can specify up to 7 windows to mask the video ca ptured by this device. By dragging mouse on the image, you can change the position and size of the selected window accordingly.			
Name	Name of the specified privacy window			
Level	To define the gray level of mask block. The smaller value will be darker.			



6.2.3. PTZ Setting

This page allow user to modify the RS-485 interface according to the P/T scanner.

Picture Privacy Mask	PTZ Setting Preset Setting Tour Setting
Camera Protocol Camera Address Baud rate	none
Camera Protocol	This device can connect to a PTZ camera or speed dome camera and controls them thru RS-485 interface.
Camera Address	This is the camera ID set in PTZ camera or speed dome camera. Note that please DO NOT changes the default value if unnecessary. If so, user needs to check and set value properly for both sides.
Baud rate	This is the communication speed between network module and P/T scanner.
NOTE	If need to ch ange these parameters, user needs to check and set value properly for both, network module and P/T scanner.



6.2.4. Preset Setting

This page provides the edit tool to modify or delete the "Preset Setting" item by item.

Pictu	e Privacy Mask	PTZ Setting	Preset Setting	Tour Setting	
	reset Number Pres	et Name Home	Position		Preset List
				Preset Num	mber
				Preset Name	ne
				Home Positi	ition Enable Disable
					Modify Delete
				·	

6.2.5. Tour Setting

Up to 64 p ositions can be preset, and the camera can be programming to move to the pre set position sequentially.



	Hask TT2 Setting	Treset vetting	Tour bearing		
Tour Number	Tour Name Run	ning	Sequence Preset Name	Wait Time	
Tour Name Running	Enable • Disa	ble			
	Add Modify Dele	te	Modify		

Tour Name	The group name of the sequence of camera tour. The maximum number of camera tour is 16.
Running	Enable or disable this camera tour.
Preset	Set the sequence of the t our. Maximum 16 p oints can be assigned. The selected preset position is added in the Sequence list from 1 to 16.
Wait Time	Type a period of time during which the camera is to stay at each preset point, between 0 to 36000 seconds.
NOTE	To use the camera tour functio n, user must preset some came ra positions first. The maximum number of preset points is 64.

6.3. System

Use this menu to perform the principal settings of Internet Camera.



6.3.1. System

Syst	em	D	ate & Time	Maintenance							
Dente	- 754 -										
Devic	e nue			ICA-2200	(0 ~ 30 Digits)						
Softw	vare Ve	rsie	on	6.D.2.8988							
Network LED		💿 Enable 🔵 Disal	Enable Disable								
Powe	er LED			💿 Enable 🔵 Disal	💿 Enable 🜑 Disable						
Log				Reload							
LUg				Reload							
_											
	Nor		20.15.06	TCN-2200 avalo	r info avalord started, BusyBox v1 12 4						
	Nov	8	20.15.06	TCA-2200 Systor	notice kernel: klogd started: BusyBox v1.13.4 (2012-07-18						
	Nov	8	20:15:06	ICA-2200 user.	notice kernel: Linux version 2.6.28 (root@localhost.local						
	Nov	8	20:15:06	ICA-2200 user.	warn kernel: CPU: FA626TE [66056261] revision 1 (ARMv5TE)						
	Nov	8	20:15:06	ICA-2200 user.	warn kernel: CPU: VIPT aliasing data cache, VIPT aliasing						
	Nov	8	20:15:06	ICA-2200 user.	warn kernel: Machine: Faraday GM8126						
	Nov	8	20:15:06	ICA-2200 user.	warn kernel: Warning: bad configuration page, trying to c						
	Nov	8	20:15:06	ICA-2200 user.	warn kernel: Memory policy: ECC disabled, Data cache writ						
	Nov	8	20:15:06	ICA-2200 user.	debug kernel: On node 0 totalpages: 65536						
	Nov	8	20:15:06	ICA-2200 user.	<pre>iebug kernel: free_area_init_node: node 0, pgdat c0cc8f2c</pre>						
	Nov	8	20:15:06	ICA-2200 user.	iebug kernel: Normal zone: 512 pages used for memmap						
	Nov	8	20:15:06	ICA-2200 user.	iebug kernel: Normal zone: 0 pages reserved						
	Nov	8	20:15:06	TCA-2200 user.	iebug kernel: Normal zone: 65024 pages.LIFO batch:15 💟						
	•										

Device title	You can enter the name of this unit here. It's very useful to identify the specific device from multiple units.				
Software version	This information shows the software version in the device.				
Network LED	Switch the LED light of th is Internet Camera on or off, that Network LEDs will stop working; in case you don't want other people know the camera is transferring data.				
Power LED	Switch the LED light of this Internet Camera on or off.				
Log	User can check the system log information of the device, including the Main Info, Appended Info, Operator IP, and so on				
Reload	Click this button; user can refresh the log information of the device.				

6.3.2. Date & Time

User can setup the time setting of Internet Camera, make it synchronized with PC or remote NTP server. Also, you may select the correct time zone of your country.



System Date & Time	Maintenance
Server Date & Time	2012-7-09 15:46:21
PC Time	2012-7-9 15:46:17
Adjust	• Synchronize with PC
	🔍 Manual setting : Date : 2012 💙 - Jul 🌱 - 09 💙 Time : 15 🌱 : 45 💙 : 43 🌱
	Synchronize with NTP
NTP Server	time.stdtime.gov.tw Test
NTP Sync. Interval	24 hour 🕶
Timezone	GMT (Dublin, Lisbon, London, Reykjavik)
Daylight Saving	● Disable ● Enable
Daylight Saving Start	Time Jan 💙 01 💙 00 💙: 00 💙: 00 💙
Daylight Saving Stop	Time Jan 💙 01 💙 00 💙: 00 💙: 00 💙
Daylight Saving Offse	t + v 01 v: 00 v: 00 v

Server Date & Time	Displays the date and time of the device					
PC Time	Displays the date and time of the connected PC					
	Synchronize with PC:	Click this option to enable time synch ronization with PC time				
Adjust	Manual setting: Click this option to set time and date man					
	Synchronize with NTP:	Click this option if you want to synchronize the device's date and time with those of time serve r called NTP server (Network Time Protocol)				
NTP server name	Type the host name or I P address or domain name of the NTP server.					
NTP sync. Interval	Select an interval between 1 and 23 hours at which you want to adjust the device's time referring to NTP server					
Time zone	Set the time difference from Green wich Mean Time in the area where the device is installed.					
Daylight saving	Check this item to enable daylight saving adjustment.					
Daylight Saving Start Time	Sets up the date and time of daylight saving start time.					
Daylight Saving Stop Time	Sets up the date and time of daylight saving stop time.					



Daylight Saving Sets up the date of daylight saving offset.

Offset

6.3.3. Maintenance



Default Settings (Include the network setting)	Recall the device hard factory default settings. Note that click this button will reset all device's parameters to the factory settings (including the IP address).				
Default Settings (Except the network setting)	The unit is restarte d and most cu rrent settings a re reset to factory default val ues. This action will not reset the network setting.				
Backup Setting	To take a ba ckup of all of the par ameters, click this button. If necessary, it will then be possible to return to the previou s settings, if settings are changed and there is unexpected behavior.				
Restore Setting	Click the " Browse " button to loc ate the saved backup file and then click the "Restore Setting" b utton. The settings will be restored to the previous configuration.				
Firmware upgrade	The device supports new firmware upgrade.				
1. Close all of update.	ther application programs which are not necessary for firmware				
2. Make sure	that only you access this device at this moment				



- 3. Disable Motion Detection function.
- 4. Select "Firmware name"
- 5. Select the Firmware binary file.

Note :

That it must make sure that the Firmware only applies to this device, once update, it will be burned into FLASH ROM of system.

- 6. Once the firmware file was selected, select "Upgrade".
- 7. The upgrade progress information will be displayed on the screen.
- 8. A message will be shown while the firmware upgraded. Once the upgrading process completed, the device will reboot the system automatically.
- 9. Please wait for 80 seconds, and then you can use PLANET IP Wizard II to search the device again.

Warning!!!

The download firmware procedure cannot be interrupted. If the power and/or network connection are broken during the download procedure, it might possibly cause serious damage to the device.

Please be aware that you should not turn off the power during updating the firmware and wait for finish message.

Furthermore, do not try to upgrade new firmware if it's not necessary.

System Restart The device is restarted without changing any of the settings.



6.4. Video

This device provides 2 modes of video profile. The first one is 720P mode which supports video resolution up to H D (1920x720). The second one is 2MP mode which supports video resolution up to Full HD (1920x1080). User only can select either 720P or 2MP modes to operate the camera. Switching between 720P and 2MP mode, the device will take time to reboot system.

6.4.1. Common

Common Video Profile	ROL
Video Profile	● 720p Mode © 2 Mega Mode
Text Overlay Setting	Font Color 797979 Set Color Default Color
	Background Color 101010 Set Color Default Color
	Transparency 0(opacity) 💙
	Include Date
	● Predefined YYYY-101-DD Y
	● Own <mark>%Y-%m-%d (</mark> (0 ~ 12 Digits)
	Include Time
	O Predefined 24h 💌
	● Own <mark>%H:%M:%S (</mark> 0 ~ 12 Digits)
	Include Text V
	(0 ~ 20 Digits)

Video Profile	User can only choose either 720P or 2MP modes. 720P mode can
	serve streams up to 1920x720 resolutions maximum. On the other
	hand, 2MP mode, it can streams up to 1920x10 80 resolutions maximum.

Text Overlay Setting	There	are some impo	rtant	information	can	be e mbedded	into
	image,	, including date, t	time, a	nd/or text.			



6.4.2. Video Profile

User can modify the detail parameter for each video profiles in this page.

Common \	/ideo Profile	ROI										
Name	Video Type	Resolution	Rate Control	Quality	Bitrate	Max Frame Rate	GOP Control	ROI	Multica	as		
Profile1	h264	1080p	VBR	100	-	30	8	no	no	1		
Profile2	h264	1080p	EVBR	90	-	30	30	no	no			
Profile3	mjpeg	1080p	VBR	75	-	6	1	no	no			
Profile4(ROI)	h264	640x360	EVBR	75	-	30	30	yes	no			
Profile5(ROI)	h264	640x360	EVBR	90	-	30	30	yes	no			
Profile6	h264	640x360	EVBR	70	-	30	30	no	no			
Profile7	h264	640x360	EVBR	80	-	30	30	no	no			
Profile8	h264	640x360	EVBR	90	-	30	30	no	no			
Profile9	mpeg4	640x360	EVBR	90	-	30	30	no	no			
Profile10	mjpeg	640x360	VBR	90	-	6	1	no	no	٩		
Name		Profile1										
Video Type		h264 💌	h264 🔽									
Resolution		1080p	1080p									
ROI		🔍 Yes 🔍 N	● Yes © No									
Rate Control		VBR ✓ Quality 100	VBR V Quality 100 V									
Max Frame Rate		30 💌	30 👻									
GOP Control		8 🗸	8 🗸									
Multicast		🔍 Enable 🤇	Disable									
Multicast Video		IP Address	IP Address 239.198.97.181 Port 0 (0 means auto, 1024 ~ 65534)									
Multicast Audio		IP Address	239.198.97.181	F	Port 0	(0 means auto, 102	4 ~ 65534)					

Name	To assign a name to the selected profile.
Video Type	Video codec of the selected profile.
Resolution	Resolution of the selected profile.
ROI	Assign the selected profile as a ROI stream or not. (Only available for the profiles with max resolution)
Rate Control	Defines the rate control method of this p rofile. There are four options: Constant Bit Rate (CBR), Variable Bit Rate (VBR), Enhanced Constant Bit Rate (ECB R), and Enhanced Variable Bit Rate (EVBR).
	For CBR, the video bit rate is between low to high bandwidth based on different resolutions. User can set the desired bit rate to match the limitation of bandwidth.
	For VBR, user should choose the quality level to set the video quality rather than b it rate. The quality level is betwe en 1 and 100. The higher value can reach the better quality but of course will consume



	higher bandwidth.
	For ECBR, the video bitrates is b ased on norm al CBR mode. However, the target bitrates can be increased to max target bitrates while lots of motion in vid eo. The max target bitrates will keep a pre-defined time period and then back to normal CBR bitrates.
	For EVBR, the video bit rates is based on norm al VBR mode. However, the target bitrates can be increased to max target bitrates while lots of motion in vid eo. The max target bitrates will keep a pre-defined time period and then back to normal VBR mode.
Max Frame Rate	Defines the targeted frame rate of this profile. For example, set the frame rate to 15 fps, then the image will be update d for 15 fram es per second. User can set the de sired max frame rate versus video quality under the limited bandwidth.
GOP Control	Defines the Intra/Inter-frame (I/P) ra tio of this profile. For examp le, set the GOP to 30, then the video stream will have one Intra-fram e every 30 frames.
Multicast	Enable or disable the multicast function.
Multicast Video	IP address and port for multica st video streaming of the selected profile.
Multicast Audio	IP address and port for multicast audio streaming of the selected profile
Always Enable Multicast	Multicast streaming is always enabled or by request

Warning!!!

To enable the multicast streaming, you should make sure your Intranet does support multicast function. Otherwise, your Intranet may encounter network storm seriously due to the video/audio broadcast.



6.4.3. ROI

ROI means **Region of Interest**. Use this page to specify loca tion of ROI windows. Only the maximum resolution profiles can be defined as ROI. In this model, the default ROI win dows are profile 4 and 5.



6.5. Audio Configuration





Audio	To enable or disable audio function.
Audio type	To select G711 or G726 for audio coding.
Audio Mode	To select Simplex or Full duplex (2-way audio) mode.
Input Gain	To adjust gain of input audio.
Output Gain	To adjust gain of output audio.

6.6. User Privilege Access Configuration

Use this menu to set the user names and password of the Administrator and up to 10 users, and access right of each user.

Setting			
Viewer Login 🔹 A	nonymous 单 Only users in dat	tabase <mark>Save</mark>	
User Name Access 1	Right PTZ Control		User List
admin adminis	trator yes	User Name	(1 ~ 20 Digits)
		Password	(0 ~ 20 Digits)
		Verify Password	(0 ~ 20 Digits)
		Access Right	Administrator • Viewer
		PTZ Control	Enable Oisable
			Add Modify Delete
Viewer Login	Select "Anonyn connected. Oth video after logir	nous" to allow a nerwise, only us n.	ny one viewing the video once ers in database can view the
Access Right	Administrator of However, Viev limited function	can access ev vers only can v	very fun ction in thi s device. iew the video and acce ss
PTZ Control	Authorize this u	iser to control P	TZ function or not.
	• • • • •		

Add, Modify, and Delete of Manage the user's account of viewer user. Users account



6.7. E-Mail Configuration

You may setup SMTP mail parameters for further operation of Event Schedul e. That's, if users want to send the alarm message out, it will need to configure parameters here and also add at least one event schedule to enable event triggering.

SMTP Server	mail.planet.com.tw	(< 129 Digits) Test
SMTP Port	25	(1 ~ 65535)
SSL	💿 Disable 🌑 Enable	
SMTP Authentication	🔍 Disable 💿 Enable	
Authentication User Name	admin	(< 65 Digits)
Authentication Password	•••••	(< 22 Digits)
E-mail From	admin@planet.com,.tw	(< 129 Digits)
E-mail To	support@planet.com,.tv	v (< 129 Digits)
E-mail Subject	message	(< 65 Digits)

SMTP Server	Type the SMTP server name or the IP address of the SMTP server.
Test	Send a test mail to mail server to check this account is available or not.
SMTP Port	Set port number of SMTP service.
SSL	Enable SSL function or not.
SMTP Authentication	Select the authentication required when you send an e-mail. Disable: If no authentication is required when an e-mail is send. Enable: If authentication is required when an e-mail is sent.
Authentication User Name	Type the user name for the SMTP server if Authentication is Enable.
Authentication Password	Type the password for the SMTP server if Authentication is Enable.
E-mail From	Type the sen der's E-mail address. This address is use d for reply e-mails.
E-mail To	Type the receiver's e-mail address.
E-mail Subject	Type the subject/title of the e-mail.



6.8. Object Detection

Use this menu to specify motion detection window 1 to win dow 4 and set the conditions for detection while observing a captured image.



Add and De	elete		To add or delete the motion windo ws. User can specify up to 4 Included and/or Excluded windows to monitor the video ca ptured by this device. By draggin g mouse on the image, you can change the position and size of the selected motion window accordingly.
Included Window	or	Excluded	These windows can be specified as Included or Excluded type. Included: Windows target specific areas within the whole video image
			Excluded: Windows define areas within an In clude window that should be ignored (areas outside Include windows are automatically ignored)
Name			Name of the specified motion window.
Object Size			Defines the object size of motion detection. The higher object size will only larger objects trigger motion detection. The lower object size will even small objects trigger motion detection too. Generally speaking, the smaller size will be easier to trigger event.
Sensitivity			Defines the sensitivity value of motion detection. The higher value will be more sensitivity.





6.9. Storage Configuration

This page shows the stat us of attached SD card and Samba server. You may setup related parameters to manage the attached SD card or Samba server also.

6.9.1. SD Card

SD Card SAMB	A Server		
Disk ID	SD_DISK	Mount	• •
Status	Free space	57% - 1126844KB	Reload Format
	Total size	1966080 KB	
	Status	ОК	
	Full	No	
	Readonly	No	
Enable a	utomatic disk cleanup		
Remove	recordings older than:	7 day(s)	
Remove	oldest recordings whe	en disk is: <mark>95 </mark> % full	
Lock dis	k		

Enable automatic disk cleanup	Delete old recorded files while the con ditions are reached as below.
Remove recordings order than	Delete old files by days.

Remove oldest recordings when disk is	Delete old files by left cap	pacity.
Lock disk	Lock the SD card. Once	SD card is locked, all files can't be

deleted.



6.9.2. SAMBA Server

This page shows the st atus of SAMBA server. You may setup related parameters to manage the remote SAMBA server.

SD Ca	ard	SAMBA Server		
H	lost		192.168.0.201	(1 ~ 63 Digits)
s	Share		share	(1 ~ 63 Digits)
u	Jser Na	me	test	(< 63 Digits)
F	Passwo	rd	*****	(< 63 Digits)
s	Status		Online	
F	fotal siz Free sp	ace	13.34 GB 59% - 7.88 GB	
S	SAMBA	Server	Unmount	

Host	Type the SAMBA server domain name or the IP address of the SMTP server.
Share	Type the sh are folder of remote SAMBA server which the camera will upload files to this space.
User name	Delete old files by left capacity.
Password	Type the password for the remote SAMBA server.



6.10. Continuous Recording

The camera can continuously record video stream into files and save them to attache d SD card or remote SAMBA server.

Continuous Recording	
Continuous Recording	📀 Disable 🔎 Enable
Record File Type	Profile1 h264 / 1080p 😪
Disk	SD Card SAMBA Server
Path	PLANET-00304FA25F06 (For example: Folder1/Folder2/Folder3) (1 ~ 63 Digits)
Restart (Restarting will d	lelete the current recording.)
Oldest recordings will be re-	moved if the disk is 90% full and free space is smaller than 1GB.
Continuous Recording	Enable or disable this function.
Record File Type	Choose a video profile to record.
DISK	Save recorded files to SD card or remote SAMBA server.
Path	Define the folder path for the recorded files.
Restart	Be careful, click this button will delete all continuous files recorded in SD card or remote SAMBA server.

6.11. Recording List

6.11.1. Recording List

This page only shows the event recording files which stored in SD card. User may play or delete the selected file.



Date	File	Trigger by	Sise	
20120329	20120326_113301.avi	motion00ccur	2004 KB	
20120330	20120326_115716.avi	motion00ccur	2068 KB	
20120326	20120326_115732.avi	motion00ccur	2081 KB	
	20120326_115740.avi	motion00ccur	2067 KB	
	20120326_115749.avi	motion00ccur	2093 KB	
	20120326_115755.avi	motion00ccur	2059 KB	
	20120326_115932.avi	motion00ccur	2057 KB	
	20120326_115943.avi	motion00ccur	2056 KB	
	20120326_115951.avi	motion00ccur	2090 KB	
	20120326_121234.avi	motion00ccur	2074 KB	
	20120326_121329.avi	motion00ccur	2067 KB	
	20120326_121411.avi	motion00ccur	2056 KB	
Relead		Play Pom		
Reload		riay Rein	ove	

6.11.2. Continuous Recording List

This page only shows the continuous recording files which stored in SD card or remote SAMBA server. User may play or delete the selected file.

late	File	Trigger by Size	
20120326	20120326 113156.avi	continuous 15506 KB	
	20120326 113656.avi	continuous 17931 KB	
	20120326 114156.avi	continuous 19834 KB	
	20120326 114657.avi	continuous 19608 KB	
	20120326_115157.avi	continuous 19150 KB	
	20120326_115659.avi	continuous 50094 KB	
	20120326_120200.avi	continuous 20253 KB	
	20120326_120701.avi	continuous 19704 KB	
	20120326_121201.avi	continuous 27162 KB	
		· · · · · · · · · · · · · · · · · · ·	



6.12. Event Server Configuration

6.12.1. FTP Server

You may setup FTP para meters for further operation of Event Schedule. That's, if users want to send the alarm message to an FTP server, it will need to configure parameters here and also add at least one event schedule to enable event triggering as SMTP.

Name FTP Server FTP Port FTP Path FTP 192.168.0.174 21 /anthony/test Name FTP (< 22 Digits) FTP 192.168.0.174 (< 66 Digits) FTP Server 192.168.0.174 (< 66 Digits) FTP Login Name admin (< 22 Digits) FTP Login Password i==== (< 22 Digits) FTP Port 21 (1 ~ 65535) FTP Path [2dmin/test (< 65 Digits) FTP Passive Mode Ø Disable Inable	Name FTP Server FTP Port FTP Path FTP 192.168.0.174 21 /anthony/test Iame FTP (<22 Digits) TP Server 192.168.0.174 (<65 Digits) Test TP Login Name admin (<22 Digits) TP Login Password 1000000000000000000000000000000000000	FTP Server	TCP Server	HTTP Server	SAMBA Server		
Name FTP Server FTP Port FTP Path FTP 192.168.0.174 21 /anthony/test Name FTP (< 22 Digits) Name Issue Issue FTP Server 192.168.0.174 (< 65 Digits) FTP Login Name admin (< 22 Digits) FTP Port 21 (< 22 Digits) FTP Port 21 (< 65 Digits) FTP Path /admin/test (< 65 Digits)	Name FTP FTP Port FTP FTP 192.168.0.174 21 /anthony/test Name FTP (<22 Digits) Image: Image						
FTP 192.168.0.174 21 /anthony/test Name FTP (< 22 Digits)	FTP 192.168.0.174 21 /anthony/test Iame FTP (< 22 Digits)	Name	F	IP Server	FTP Port	FTP Path	
Name FTP (< 22 Digits)	Iame FTP (< 22 Digits)	FTP	19	2.168.0.174	21	/anthony/test	
Name FTP (< 22 Digits) FTP Server 192.168.0.174 (< 65 Digits) Test	Name FTP (< 22 Digits) TP Server 192.168.0.174 (< 65 Digits) Test						
Name FTP (< 22 Digits) TTP Server 192.168.0.174 (< 65 Digits) Test	Name FTP (< 22 Digits) TP Server 192.168.0.174 (< 65 Digits) Test						
ame FTP (< 22 Digits) TP Server 192.168.0.174 (< 65 Digits) Test	ame FTP (< 22 Digits) TP Server 192.168.0.174 (< 65 Digits) Test						
Hame FTP (< 22 Digits) TP Server 192.168.0.174 (< 65 Digits) Test]	Name FTP (< 22 Digits) TP Server 192.168.0.174 (< 65 Digits) Test						
Name FTP (< 22 Digits) FTP Server 192.168.0.174 (< 65 Digits) Test	Name FTP (< 22 Digits)						
Name FTP (< 22 Digits) FTP Server 192.168.0.174 (< 65 Digits) Test	Name FTP (< 22 Digits)						
FTP Server 192.168.0.174 (< 65 Digits) Test FTP Login Name admin (< 22 Digits) FTP Login Password ••••• (< 22 Digits) FTP Port 21 (1 ~ 65535) FTP Path /admin/test (< 65 Digits) FTP Passive Mode O Disable • Enable	TP Server 192.168.0.174 (< 65 Digits) Test] TP Login Name admin (< 22 Digits) TP Login Password ••••• (< 22 Digits) TP Port 21 (1 ~ 65535) TP Path /admin/test (< 65 Digits) TP Passive Mode © Disable ● Enable	Name		FTP	(< 2	2 Digits)	
FTP Login Name admin (< 22 Digits) FTP Login Password •••••• (< 22 Digits)	TP Login Name admin (< 22 Digits) TP Login Password •••••• (< 22 Digits)	FTP Server		192.168	3.0.174 (< 6	5 Digits) Test	
FTP Login Password (< 22 Digits)	TP Login Password •••••• (< 22 Digits)	FTP Login Name		admin	(< 2	2 Digits)	
FTP Port 21 (1 ~ 65535) FTP Path /admin/test (< 65 Digits)	TP Port 21 (1 ~ 65535) TP Path /admin/test (< 65 Digits)	FTP Login Password		•••••	(< 2	2 Digits)	
FTP Path /admin/test (< 65 Digits) FTP Passive Mode Disable Enable Enable	TP Path /admin/test (< 65 Digits)	FTP Port		21	(1 ~	65535)	
FTP Passive Mode O Disable O Enable	TP Passive Mode O Disable O Enable	FTP Path		/admin/t	test (< 6	5 Digits)	
		FTP Passive Mo	de	📀 Disa	ble 🔍 Enable		

Name	User can specify multiple FTP paths as wish. Therefore, user needs to specify a name for each FTP setting.
FTP Server	Type the server name or the IP address of the FTP server.
Test	Check the FTP server whether this account is available or not.
FTP Login name	Type the user name for the FTP server.
FTP Login Password	Type the password for the FTP server.
FTP Port	Set port number of FTP service.
FTP Path	Set working directory path of FTP server.
FTP Passive Mode	Select passive or active mode connecting to FTP server.



6.12.2. TCP Server

In addition to send video file to FTP server, the device also can send event message to specified TCP server.

FTP Serve	er TCP Server	HTTP Server	SAMBA Server
N		TCD Camera	5(D) 1
Mane		ICP Server	TCP
Name			Ic 22 Digits)
			(< 22 Digits)
TCP Server	r		(< 65 Digits) Te
TCP Port			(1 ~ 65535)

Name	User can specify multiple TCP servers as wish. Therefore, user needs to specify a name for each TCP server setting.
TCP Server	Type the server name or the IP address of the TCP server.
TCP Port	Set port number of TCP server.



6.12.3. HTTP Server

The device also can send event message to specified HTTP server.

Name HTTP Server Proxy Address ame (< 22 Digits) RL http:// (< 129 Digits) Test TTP Login Name (< 22 Digits)
ame (< 22 Digits) RL http:// (< 129 Digits) Test TTP Login Name (< 22 Digits)
ame (< 22 Digits) RL http:// (< 129 Digits) Test TTP Login Name (< 22 Digits)
ame (< 22 Digits) RL http:// (< 129 Digits) Test ITP Login Name (< 22 Digits)
ame (< 22 Digits) RL http:// (< 129 Digits) Test ITP Login Name (< 22 Digits)
ame (< 22 Digits) RL http:// (< 129 Digits) Test TTP Login Name (< 22 Digits)
ame (< 22 Digits)
RL http:// (< 129 Digits) TTP Login Name (< 22 Digits)
TTP Login Name (< 22 Digits)
TTP Login Password (< 22 Digits)
roxy Address (< 129 Digits)
roxy Login Name (< 22 Digits)
roxy Login Password (< 22 Digits)
roxy Port (1 ~ 65535)

Name	User can specify multiple HTTP servers as wish. Therefore, user needs to specify a name for each HTTP server setting.
URL	Type the server name or the IP address of the HTTP server.
Test	Check the HTTP server whether it is available or not.
HTTP Login name	Type the user name for the HTTP server.
HTTP Login Password	Type the password for the HTTP server.
Proxy Address	Type the server name or the IP address of the HTTP Proxy.
Proxy Login name	Type the user name for the HTTP Proxy.
Proxy Login Password	Type the password for the HTTP Proxy.
Proxy Port	Set port number of Proxy.



6.12.4. SAMBA Server

The device also can send video stream to specified SAMBA server. Most of the time, the SAMBA server will be another PC or NAS server.

	TP Server	TCP Server	HTTP Server	SAMBA Server	
_					
1	lame	SA	MBA Server	SAMBA Path	1
4	amba	19	2.168.0.201	share	
N	ime		5	amba	(< 22 Digits)
s	AMBA Server		1	92.168.0.201	(< 65 Digits) Test
S	SAMBA Login Name		te	est	(< 22 Digits)
s	SAMBA Login Password		•	•••••	(< 22 Digits)
s	SAMBA Path		5	hare	(< 65 Digits)

Name	User can specify multiple HTTP servers as wish. Therefore, user needs to specify a name for each HTTP server setting.
SAMBA Server	Type the server name or the IP address of the SAMBA server.
Test	Check the SAMBA server whether this account is available or not.
SAMBA Login name	Type the user name for the SAMBA server.
SAMBA Login Password	Type the password for the SAMBA server.
SAMBA Path	Set working directory path of SAMBA server.




6.13. Event Schedule Configuration

This menu is used to specify the schedule of Event or Schedule Trigger and activate the some actions provided by this device. W here the Schedule Trigger will be act ivated by user-define interval without event happened.

Setting Record	Port Status
Name	Enable Type Weekday Start Duration Trigger by Prefix Action
Name	
Enable	♦ Yes ● No
Туре	Event Trigger Schedule Trigger, Interval 60 (Seconds)
Enable Time	Sun Mon Tue Wed Thu Fri Sat Start from 0 O O , Duration 24 O ((max 168:00 hours))
Trigger by	Sensor Change to active Y Motion Area
Record File Prefix	(0 ~ 20 Digits)
	🗖 Go 🛇 Preset 👱 🗢 Tour 🔛
	Voice Alert, Duration 5 (0~86400 Seconds)
	Alarm Out, Duration 5 (0~86400 Seconds)
	Send FTP
Action	

Name	Name of the Event or Schedule.			
Enable	Enable or disable this Event or Schedule.			
Туре	Schedule start with Event trigger or Schedule trigger.			
Enable Time	efine the feasible time slot.			
Trigger by	Select the triggered sources with event trigger.			
Record File Prefix	Define the prefix of recorded filename			
Action	Define the actions once event triggered.			



Example1.

Send file to FTP server by motion triggered always:

Step 1 Select event trigger

Step 2 Enable time: start from 00:00 to 24:00 every day

Step 3 Trigger by: Motion Area (Added in Object Detection page)

Step 4 Action: Send FTP (Add in Event Server -> FTP Server page)

Setting Record	d Port Status					
Name	Enable Type	Weekday S	tart Duration	Trigger by Prefix	Action	
Send to FTP	yes Event	1111111 0	:0 24:0	x,MO,x	FTP	
Name	Send to FTP					
Enable	● Yes ● I	lo				
Туре	Event Tri	Event Trigger Schedule Trigger, Interval 60 (Seconds)				
Enable Time	🗹 Sun 🗹 Mon 🗹 Tue 🗹 Wed 🗹 Thu 🗹 Fri 🗹 Sat					
	Start from) 🔽 0 🔽 , Dura	ation 24 🔽 0	((max 168:00 hours))		
Trigger by	Sensor	Change to activ	re 🖌			
Thgger by	Motion 4	rea DefaultWind	low 👻			
Record File Prefix		(0 ~	20 Digits)			
	🔳 Go 💿 Pr	eset 💌 👁 Tour	~			
	Voice Al	ert, Duration	(0~86400 Sec	onds)		
	🗖 Alarm O	ıt, Duration	(0~86400 Seco	nds)		
	Send FTI	FTP 🗸				
Action	Send TC	> 🖌				
	- Cond UT	m v				



Example2.

Send file to E-Mail server by motion triggered from Friday 18:00 to Saturday 06:00

Step 1 Select event trigger.

Step 2 Enable time: start from Friday 18:00 and keep work in 12 hours, so it will stop on Saturday 06:00.

Step 3 Trigger by: Motion Area (Added in Object Detection page)

Step 4 Action: Send e-mail (Add in E-Mail page)

- i. To email address: You need to input the receiver email address.
- ii. Subject: You could specify the email subject.
- iii. Message: You could specify the email content.

Setting Record	Port Status							
Name	Enable Type Weekday Start Duration Trigger by Prefix Action							
Send to E-mail	yes Event 0000010 18:0 12:0 x,M0,x SMTP							
Name	Send to E-mail							
Enable	◆ Yes ◆ No							
Туре	• Event Trigger • Schedule Trigger, Interval 60 (Seconds)							
Enable Time	Sun Mon Tue Wed Thu Y Fri Sat							
	Start from 18 💙 0 💙 , Duration 12 💙 0 💙 ((max 168:00 hours))							
Trigger by	Sensor Change to active							
	Motion Area DefaultWindow Y							
Record File Prefix	(0 ~ 20 Digits)							
	Go O Preset 🔽 O Tour							
	Voice Alert, Duration (0~86400 Seconds)							
	Alarm Out, Duration (0~86400 Seconds)							
	Send FTP FTP V							
	Send TCP 💌							
	Send HTTP							
A - 41	Send E-Mail							



Example3.

Enable Voice Alert every 10-minute during 18:00 to 24:00 from Monday to Friday.

Step 1 Type: Select schedule trigger and interval is 10-minute.

Step 2 Enable Time: Select Monday to Friday, and set start time from 18:00 and keep work in 6 hours.

Step 3 Trigger by: You do not need to choose it, because this will be triggered every minute.

Step 4 Action: Voice Alert.

Setting	Record	Port Sta	tus					
Name		Enable	Туре	Weekday	Start	Duration	Trigger by Prefix	Action
Triger_V	bice_alert	yes	Schedule	0111110	18:0	6:0	x,M0,x	VOICE
Name		Trige	er Voice ale	ert				
Enable								
LIIADIC			es VNO					
Туре		● E	vent Trigger	Schedule	e Trigger,	Interval 600	(Seconds)	
Fachla Time	_	🗆 S	un 🗹 Mon	🗹 Tue 🗹 W	ed 🗹 Thu	u 🗹 Fri 🔲 Sa	ıt	
chable fille	;	Start	from 18 💊	🕐 🔍 , Du	ration 6	Y 0 Y	((max 168:00 hours))	
		s	ensor Cha	nge to act:	ive 🗸			
Trigger by		N	lotion Area	DefaultWin	ndow 🗸			
Record File	Prefix			(0 ~ 20	Digits)			
		G	o 💿 Preset	V O Tour	~			
			oice Alert. D	uration 10	0~86	400 Seconds)	
			larm Out. Du	ration	(0~864	00 Seconds)	'	
			end FTP FT	P 🗸				
Action			end HTTP	~				
			end F-Mail					



6.14. Record Configuration

User can choose the type of record file for event or schedule application.

Setting F	Record	Port Status	
Record I	File Type	Pro	file1 h264 / 1080p 💌
Record	File Prefix		(0 ~ 20 Digits)
Pre Trig	ger Duratio	on <mark>5</mark>	(0 ~ 20 Seconds)
Best Effe	ort Duratio	n <mark>30</mark>	(1 ~ 60 Seconds)
Max File	Size	3072	(256 ~ 3072 Bytes)
Record File	Type	Ch	cose AVI or IPEG file format for record file
Record The	туре		
Record File	Prefix	De	fine the prefix of recorded filename.
Pre-Trigger	Duratio	on De	fine the maximum duration of pre-alarm.
		-	
Best Effort	Duratio	n De	fine the best effort duration of post-alarm.
Max File Siz	e	De	fine the maximum buffer size of record file.





6.15. Port Status

User can check the status of digital input and output (DIDO).

	Setting	Record	Port Status	
	Input	Status	Input 0	: Inactive
	Outpu	it Status	Output	0: Inactive
_				

Input Status	Show either inactive or active.
Output Status	Show either inactive or active.



Chapter 7. PLANET DDNS

Application

1. Configure PLANET DDNS steps:

Step 1 Enable DDNS option through accessing web page of ICA-2200.

Step 2 Select on DDNS server provide, and register an account if you do not use yet.

Let's take dyndns.org as an example. Register an account in http://planetddns.com





Chapter 8. Alarm I/O

Connector

Some features of the Camera ca n be activated by an external senso r that sense s physical changes in the area device is monitoring. These changes can include intrusion detection or certain physical change in the monitored area. For examples, the external sensor can be a door switch or an infrared motion detector. These devices are customer provided, and are available from dealers who carry surveillance and securi ty products. Electrically, they must be able to provide a momentary contact closure.

This device provides a general I/O terminal block with one digital input and one output for device control. Pin 2 and 3 can be connected to an external sensor. The input voltage will be monitored from the initial state 'LOW'. If the external sensor need 12VDC power, then it can connect to Pin1 (50mA maximum). The Alarm Output of pin 3 and 4 can be used to turn on or off the ext ernal device. The pin5 and 6 are connected to RS485 interface.



Pin	Function
1	12VDC power supply (50mA maximum)
2	Digital Input
3	GND
4	Alarm Output
5	RS485 data +
6	RS485 data -

User can refer to the schematic below to make a proper connection between I/O connector and external sensor and output device.



Explanation of External I/O Circuit Diagram:



CAUTION!

• THE LOW VOLTAGE/CURRENT CIRCUI TS AND HIGH VOLTAGE/ CURRENT CIRCUITS ARE IN THE NE TWORK CAMERA CIRCUIT. THE QUALIFIED ELECTRICIAN SHOULD DO THE WIRING NOT BY YOURSELF. INCORRECT WIRING COULD DAMAGE NWTWORK CAMERA. YOU COULD RECEIVE THE F ATAL ELECTRIC SHOCK.

• THE EXTERNAL I/O IS NOT CAPABLE OF CONNECTING DIRECTLY TO DEVICES THAT REQUIRE LARGE AMOUNTS OF CURRENT. IN SOME CASES, A CUSTOM INTERFACE CIRCUIT (CUSTOMER PROVIDED) MAY HAVE TO BE USED. SERIOUS DAMAGE TO NETWORK CAMERA MAY RESULT IF A DEVICE IS CONNECTED TO THE EXTERNAL I/O THAT EXCEEDS ITS ELECTRICAL CAPABILITY.





Chapter 9. PING IP Address

The PING (stands for Packet Internet Groper) command is used to d etect whether a specific IP address is accessible by sending a packet to the specific address and waiting for a reply. It's also a very useful tool to confirm the device installed or if the IP address conflicts with any other devices over the network.

If you want to make sure the IP address of the device, utilize the PING comman d as follows:

- Launch a Command Prompt.
- Type ping x.x.x.x, where x.x.x.x is the IP address of the device. For example,

ping 192.168.0.20

The replies, as illustrated below, will provide an explanation to the problem.



If you want to detect any other devices conflicts with the IP address of Network Camera, also can utilize the PING command but you must disconnect the Camera from the network first.



Chapter 10. Bandwidth

Estimation

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

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

Image Resolution	Average range of data sizes for JPEG mode	Average bit rate for MPEG4 mode	Average bit rate for H.264 mode
160 x 80	3 ~ 6k byte per	64kbps~256kbps	32kbps~192kbps
	frame	@ 30fps	@ 30fps
320 x 176	8 ~ 20k byte per	256kbps~768kbps	192kbps~512kbps
	frame	@ 30fps	@ 30fps
640 x 352	20 ~ 50K byte per	512kbps~3072kbps @	384kbps~1536kbps
	frame	30fps	@ 30fps
1920 x 1080	200 ~ 500k byte per	-	1536kbps~10000kbps
	frame		@ 25fps

Note: Audio streaming also takes bandwidth around 32kbps. Some xDSL/Cable modem upload speeds could not even reach up to 128 kbps. Thus, you may not be able to receive good quality video while also streaming audio on a 128 kbps or lower connection. Even though the upload sp eed is more than 128kbps, for optimal video performance, disabling audio streaming will get better video performance.



Chapter 11. Configure Port

Forwarding Manually

The device can be used with a router. If the device wants to be accessed from the WAN, its IP address needs to be setup as fixed IP address, also the port forwarding or Virtual Server function of router needs to be setup. This device supports UPnP traversal function. Therefore, user could use this feature to configure port forwarding of NAT router first. However, if use r needs to configure port forwarding manually, please follow the steps as below:

Manually installing the device with a router on your network is an easy 3–step procedure as following:

- 1. Assign a local/fixed IP address to your device
- 2. Access the Router with Your Web browser
- 3. Open/Configure Virtual Server Ports of Your Router

1. Assign a local/fixed IP address to your device

The device must be assigned a local and fixed IP Address that allows it to be recognized by the router. Manually setup the device with a fixed IP address, for example, *192.168.0.100*.

2. Access the Router with Your Web browser

The following steps generally apply to any rout er that you have on your net work. The PLANET WNRT-620 is used as an example to clarify the configuration process. Configure the initial settings of the router by following the steps outlined in the router's **Quick Installation Guide**.

If you have cable or DSL service, you will most likely have a dynamically assigned WAN IP Address. 'Dynamic' means that your router's WAN IP address can change from time to time depending on your ISP. A dynamic WAN IP Address identifies your router on the public network and allows it to access the Internet. To find out what your router's WAN IP Address is, go to the **Status** screen on your router and locate the WAN information for your router. As shown on the following page the WAN IP Address will be listed. This will be the address that you will need to type in your web browser to view your camera over the Internet. Be sure to uncheck the **Reset IP address at next boot** button at the top of the screen after modifying the IP address. Failure to do so will reset the IP address when you restart your computer.



O DI ONET	Home General Setus Tool
Westing & Destandantes	Internet Broadband Router
Status Connector Connector Conce Status System Log Security Log Active DHCP Clent Statistics Current Time F/LCOCC 2-01:15	Internet Connection

Your WAN IP Address will be listed here.

3. Open/set Virtual Server Ports to enable remote image viewing

The firewall security features built into the rout er and most routers prevent users from accessing the video from the device over the Internet. The router connects to the Internet over a serie s of numbered ports. The ports normally used by the device are blocked from access over the Internet. Therefore, these ports need to be made accessible over the Internet. This is accomplished using the **Virtual Server** function on the router. The Virtual Serv er ports used by the came ra must be opened through the router for remote access to your camera.

Follow these steps to configure your router's Virtual Server settings

- Click Enabled.
- Enter a unique name for each entry.
- Select Both under Protocol Type (TCP and UDP)
- Enter your camera's local IP Address (e.g., **192.168.0.100**, for example) in the **Private IP** field.
- If you are using the def ault camera port settings, enter **80** into the **Public** and **Private Port** section, click **Add**.

A check mark appearing before the entry name will indicate that the ports are enabled.



NOTE Some ISPs block access to port 80. Be sure to check with your ISP so that you can open the appropriate ports accordingly. If your ISP does not pass traffic on port 80, you will need to change the port the camera uses from 80 to something else, such as 8080. Not all routers are the same, so refer to your user manual for specific instructions on how to open ports.

	Home General Setup Status Tool Internet Broadband Router
 System WAN LAN Wireless QoS NAT Port Forwarding Virtual Server Special applications UPAP Setting ALG Settings Firewall 	<section-header></section-header>

Enter valid ports in the **Virtual Server** section of your router. Please make sure to check the box on this line to enable settings. Then the device can be access from WAN by the router's WAN IP Address.

By now, you have finished your entire PC configuration for this device.



Chapter 12. Power Line

Frequency

COUNTRY	VOLTAGE	FREQUENCY	COMMENTS
Argentina	220V	50 Hz	*Neutral and line wires are reversed from that used in Australia and elsewhere.
Australia	230V*	50 Hz	*Outlets typically controlled by adjacent switch. Though <i>nominal</i> voltage has been officially changed to 230V, 240V is within tolerances and commonly found.
Austria	230V	50 Hz	
Brazil	110/220V*	60 Hz	*127V found in states of Bahia, Paran?(including Curitiba), Rio de Janeiro, S緌 Paulo and Minas Gerais (though 220V may be found in some hotels). Other areas are 220V only, with the exception of Fortaleza (240V).
Canada	120V	60 Hz	
China, People's Republic of	220V	50 Hz	
Finland	230V	50 Hz	
France	230V	50 Hz	
Germany	230V	50 Hz	
Hong Kong	220V*	50 Hz	
India	230V	50 Hz	
Italy	230V	50 Hz	
Japan	100V	50/60 Hz*	*Eastern Japan 50 Hz (Tokyo, Kawasaki, Sapporo, Yokohoma, and Sendai); Western Japan 60 Hz (Osaka, Kyoto, Nagoya, Hiroshima)



Malaysia	240V	50 Hz	
Netherlands	230V	50 Hz	
Portugal	230V	50 Hz	
Spain	230V	50 Hz	
Sweden	230V	50 Hz	
Switzerland	230V	50 Hz	
Taiwan	110V	60 Hz	
Thailand	220V	50 Hz	
United Kingdom	230V*	50 Hz	*Outlets typically controlled by adjacent switch. Though <i>nominal</i> voltage has been officially changed to 230V, 240V is within tolerances and commonly found.
United States of America	120V	60 Hz	



Chapter 13. 3GPP

To use the 3GPP function, in ad dition to previous section, you might need more information or configuration to make this function work.

Note: that to use the 3GPP function, it strongly recommends to install the Networked Device with a public and fixed IP address without any firewall protection.

RTSP Port:

Port 554 is the default for RTSP service. Howe ver, sometimes, some service providers change this port number for some reasons. If so, u ser needs to change this port accordingly.

Dialing procedure:

- 1. Choose a verified player (PacketVideo or Realplayer currently)
- 2. Use the following URL to access:

rtsp://host/mpeg4/media.3gp

Where *host* is the host name or IP address of the camera.

Compatible 3G mobile phone:

Please contact your dealer to get the approved list of compatible 3G phone.



Chapter 14. Troubleshooting

& Frequently Asked Questions

Question	Answer or Resolution	
Features		
The video and audio	The device utilizes H.264, MPEG4 and JPEG triple	
codec is ad opted in the	compression to providing high quality images. Where H.264	
device.	and MPEG4 are standards for video compression and JPEG	
	is a standard for image compression.	
	The audio codec is defined as G.711/G.726 for RTSP	
	streaming.	
The maximum number of	The maximum number of users is limited to 20. However, it	
users accesses the	also depends on the total bandwidth accessed to this device	
device simultaneously.	from clients. The maximum data throughput of the device is	
	around 100~200Mbps for UDP mode and 50Mbps for HTTP	
	mode. Therefore, the actual number of connected clients is	
	varying by streaming mode, settings of resolution, codec type,	
	frame rate and bandwidth. Obviously, the performance of the	
	each connected client will slow down when many users are	
	logged on.	
The device can be used	The device is weatherproof.	
outdoors or not.		
	Install this device	
Status LED does not	 Check and confirm that the DC power adaptor, included in 	
light up.	packaged, is used. Secure the power connector and re-power	
	it on again.	
	 If the problem is not solved, the device might be faulty. 	
	Contact your dealer for further help.	
The network cabling is	The device uses Category 5 or better UTP cable allowing 10	
required for the device.	Base-T, 100 Base-TX, or 1000 Base-T networking.	
The device will be	If a firewall exists on the network, port 80 is open for ordinary	
installed and work if a	data communication. The HTTP port and RTSP port need to	
firewall exists on the	be opened on the firewall or NAT router.	



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network.		
The username and	Username = admin and Password = admin.	
password for the fir st	Note that it's all case sensitivity.	
time or a fter factory		
default reset		
Forgot the username	Follow the steps below.	
and password	1. Restore the factory default setting by pressing and holding	
	down more than 5 seconds on the device.	
	2. Reconfigure the device.	
Forgot the IP address of	Check IP address of device by using the PLANET IPWizard II	
the device.	program or by UPnP discovery.	
PLANET IPWizard II	• Re-power the device if cannot find the unit within 1 minutes.	
program cannot find the	Do not connect device over a router. IPWizard II program	
device.	cannot detect device over a router.	
	 If IP address is not assigned to the PC which running 	
	IPWizard II program, then IPWizard II program cannot find	
	device. Make sure that IP address is assigned to the PC	
	properly.	
	 Antivirus software on the PC might interfere with the setup 	
	program. Disable the firewall of the antivirus software during	
	setting up this device.	
	 Check the firewall setting of your PC or Notebook. 	
Internet Explorer does	Make sure that your Internet Explorer is version 6.0 or later. If	
not seem to work well	you are experiencing problems, try upgrading to the latest	
with the device	version of Microsoft's Internet Explorer from the Microsoft	
	webpage.	
PLANET IPWizard II	 Network may have trouble. Confirm the parameters and 	
program fails to save the	connections of the device.	
network parameters.		
UPnP NAT Traversal		
Cannot work with NAT	Maybe NAT router does not support UPnP function. Please	
router	check user's manual of router and turn on UPnP function.	
	Maybe UPnP function of NAT router is not compatible to the	
	IP camera. Please contact your dealer to get the approval	





	routers list.
Some IP cameras are	 Maybe too many IP cameras have been installed on the
working but others are	LAN, and then NAT router is out of resource to support more
failed	cameras. You could turn off and on NAT router to clear out of
	date information inside router.
	Access this device
Cannot access the login	Maybe the IP Address of the Network Camera is already
page and other web	being used by another device or computer. To confirm this
pages of the Network	possible problem, disconnect the Network Camera from the
Camera from Internet	network first, and then run the PING utility to check it out.
Explorer	 May be due to the network cable. Try correcting your
	network cable and configuration. Test the network interface by
	connecting a local computer to the Network Camera via a
	crossover cable.
	Make sure the Internet connection and setting is ok.
	Make sure enter the IP address of Internet Explorer is
	correct. If the Network Camera has a dynamic address, it may
	have changed since you last checked it.
	 Network congestion may prevent the web page appearing
	quickly. Wait for a while.
	The IP address and Subnet Mask of the PC and Network
	Camera must be in the same class of the private IP address
	on the LAN.
	 Make sure the http port used by the Network Camera,
	default=80, is forward to the Network Camera's private IP
	address.
	 The port number assigned in your Network Camera might
	not be available via Internet. Check your ISP for available
	port.
	The proxy server may prevent you from connecting directly
	to the Network Camera, set up not to use the proxy server.
	 Confirm that Default Gateway address is correct.
	The router needs Port Forwarding feature. Refer to your
	router's manual for details.
	 Packet Filtering of the router may prohibit access from an



	external network. Refer to your router's manual for details.
	Access the Network Camera from the Internet with the global
	IP address of the router and port number of Network Camera.
	 Some routers reject the global IP address to access the
	Network Camera on the same LAN. Access with the private IP
	address and correct port number of Network Camera.
	• When you use DDNS, you need to set Default Gateway and
	DNS server address.
	 If it's not working after above procedure, reset Network
	Camera to default setting and installed it again.
	• If the problem is not solved, the Network Camera might be
	faulty. Contact your dealer for further help.
Image or video does not	• The first time the PC connects to Network Camera, a pop-up
appear in the main page.	Security Warning window will appear to download ActiveX
	Controls. When using Windows XP, or Vista, log on with an
	appropriate account that is authorized to install applications.
	Network congestion may prevent the Image screen from
	appearing guickly. You may choose lower resolution to reduce
	the required bandwidth.
Check the device's	Go to C:\Windows\Downloaded Program Files and check to
ActiveX is installed on	see if there is an entry for the file " IPCamera Control ". The
your computer	status column should show "Installed". If the file is not listed,
	make sure your Security Settings in Internet Explorer are
	configured properly and then try reloading the device's home
	page. Most likely, the ActiveX control did not download and
	install correctly. Check your Internet Explorer security settings
	and then close and restart Internet Explorer. Try to browse
	and log in again.
Internet Explorer	Setup the IE security settings or configure the individual
displays the following	settings to allow downloading and scripting of ActiveX
message: "Your current	controls.
security settings prohibit	
downloading ActiveX	
controls".	
The device work locally	Might be caused from the firewall protection. Check the



but not externally.	Internet firewall with your system or network administrator.
	The firewall may need to have some settings changed in order
	for the device to be accessible outside your LAN.
	Make sure that the device isn't conflicting with any other web
	server running on your LAN.
	 Check the configuration of the router settings allow the
	device to be accessed outside your local LAN.
	Check the bandwidth of Internet connection. If the Internet
	bandwidth is lower than target bit rate, the video streaming will
	not work correctly.
The unreadable	Use the operating system of the selected language. Set the
characters are	Encoding or the Character Set of the selected language on
displayed.	the Internet Explorer.
Frame rate is slower	The traffic of the network and the object of the image affect
than the setting.	the frame rate. The network congestion causes frame rate
	slower than the setting.
	Check the bandwidth of Internet connection. If the Internet
	bandwidth is lower than target bit rate, the video streaming will
	not work correctly.
	 Ethernet switching hub can smooth the frame rate.
Blank screen or very	Your connection to the device does not have enough
slow video when audio is	bandwidth to support a higher frame rate for the streamed
enabled.	image size. Try reducing the video streaming size to 160x120
	or 320x240 and/or disabling audio.
	Audio will consume 32 kbps. Disable audio to improve video.
	Your Internet connection may not have enough bandwidth to
	support streaming audio from the device.
Image Transfer on e-mail	Default Gateway and DNS server address should be set up
or FTP does not work.	correctly.
	 If FTP does not work properly, ask your ISP or network
	administrator about the transferring mode of FTP server.
Pan/Tilt does not work.	Click [Refresh] on the Internet Explorer when the
(including Click to Center	communication stops with the device. The image will refresh.
and Preset Positioning)	 Other clients may be operating Pan/Tilt.



	Pan/Tilt operation has reached the end of corner.	
Pan/Tilt does not work	There may be a slight delay when you are using the Pan/Tilt	
smoothly	feature in conjunction with streaming audio and video. If you	
	find that there is a significant delay while panning or tilting the	
	camera, try disabling the audio streaming and/or reducing the	
	video streaming size	
	Video quality of the device	
Video quality of the device		
The focus on the	• The lens is dirty or dust is attached. Fingerprints, dust, stain,	
Camera is bad.	etc. on the lens can degrade the image quality.	
The color of the image is	Adjust White Balance.	
poor or strange.	 To insure the images you are viewing are the best they can 	
	be, set the Display property setting (color quality) to 16bit at	
	least and 24 bit or higher if possible within your computer.	
	•The configuration on the device image display is incorrect.	
	You need to adjust the image related parameters such as	
	brightness, contrast, hue and sharpness properly.	
Image flickers.	Wrong power line frequency makes images flicker. Make	
	sure the 50 or 60Hz format of your device.	
	• If the object is dark, the image will flicker. Make the condition	
	around the Camera brighter.	
Noisy images occur.	The video images might be noisy if the device is located in a	
	very low light environment. Make the condition around the	
	camera brighter or turn the IR LED on.	
Miscellaneous		
Cannot play the	Have installed Microsoft's DirectX 9.0 or later and use the	
recorded ASF file	Windows Media Player 11.0 or later to play the AVI filed	
	recorded by the Device.	