

# User's Manual

# 60fps Full HD IR Bullet IP Camera

▶ ICA-3260





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#### Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no 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 the 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, 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 avoid 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 install 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 60fps Full HD IR Bullet IP Camera Model: ICA-3260 Rev: 1.00 (June, 2014) Part No. EM-ICA-3260\_v1.0



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# Chapter 1. Product Introduction

# **1.1. Package Contents**

The package should contain the following:

- IP Camera Unit x 1
- Power Adapter x 1
- Camera Mount Kit x 1
- User's Manual CD-ROM x 1
- Quick Installation Guide x 1
- 6P Terminal block x 1



**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 packet will cause damage and void the warranty for this product.

# 1.2. Overview

#### High Frame Rate (60fps) for Real-time Surveillance Applications

PLANET ICA-3260 Network Camera with IR Illuminator is a high-resolution camera for the round-the-clock surveillance over IP networks. It supports H.264 and JPEG compression formats and delivers excellent picture quality in Full HD resolutions at 60 frames per second (fps). Incorporating the new Exmor RS<sup>™</sup> CMOS image sensor, which is specially designed for surveillance applications, the ICA-3260 provides high-quality images under all lighting conditions. The IP66-rated housing protects the camera body against rain and dust, and ensures operation under extreme weather conditions, which makes it an ideal solution for outdoor applications, e.g. surveillance of buildings, roads, parking areas, garages, railway stations and airports.



#### **Day & Night Functionality**

To adapt to constantly changing lighting conditions, the ICA-3260 comes with a removable IR-cut filter and built-in low IR illuminators (0.01 lux), which enables the camera to provide color video when there is sufficient light, and black/white video in dark conditions. The ICA-3260 is able to maintain clear images 24 hours a day.



### Super low lux for day & night



#### Exceptional Image quality

Together with powerful image processing attributes like True Wide Dynamic Range and 3D Digital Noise Reduction (3DNR) technology, the ICA-3260 is able to filter the intense backlight surrounding a subject and remove noises from video signal. It brings an extremely clear and exquisite picture quality even under any challenging lighting conditions.



#### **Face Detection and Cross Line Detection**

Face Detection detects face and ignores anything else, such as buildings, cars and bodies. When a suspect enters a targeted area, his face is caught in the camera, thereby triggering an alarm. Cross Line Detection is an application especially suitable for general entrance and exit detection in low traffic areas. It detects objects such as persons and vehicles that cross a defined virtual line.



Face Detection

Cross Line Detection



#### **Camera Tampering and Audio Detection**

Provided with three individually configurable motion detection zones, the ICA-3260 can record video or trigger alarms and alerts when motion is detected in user-specified areas of the camera image. Also, its external microphone enables the system to capture the sound that is out of reach of camera's surveillance range and to trigger the audio detection alarm when sounds like screams, glass breaking, etc are detected.



#### Advanced Event Management

To enhance surveillance flexibility and event management capabilities, the ICA-3260 supports a number of advanced features including auto-iris to avoid over exposure, AV out to perform the two-way audio function, RS485 to connect to an optional pan/tilt enclosure which effectively supports pan/tilt functionality, and inputs/outputs to connect with external devices such as door sensors and relays to activate light or close doors.

# 2-way Audio



#### **Flexible Installation and Power Functionality**

The ICA-3260, incorporating IEEE 802.3af Power over Ethernet standard, is able to be powered via the network cable from a PoE power sourcing equipment such as PoE switch and PoE injector. It thus eliminates the need for extra power cables and reduces installation costs while increases the deployment flexibility. In addition, the ICA-3260 provides advanced features such as the Gigabit Ethernet transmission, giving users the utmost in bandwidth flexibility and storage efficiency. The ICA-3260 is ONVIF compliant and therefore interoperable with other manufacturers' products. It also includes 64-CH central management software for



ease of maintenance and remote monitoring. The ICA-3260 is indisputably the top choice for reliable and high-performance surveillance.



# 1.3. Features

#### > Camera

- Sony's 1/2.8 type Exmor RS 2.4MP CMOS sensor
- 4.2mm fixed lens with fixed iris
- Super low lux at 0.01 allows the camera to provide a color live view in near darkness
- Max. resolution 1080P at 60fps
- True WDR<sup>™</sup> Enhancement to enhance visibility under extremely bright or dark environments
- Alarm will be triggered and immediately alerted to user when motion, audio, tampering, and face and cross line detection are detected
- Built-in 24 IR illuminators, effective up to 20 meters
- Removable IR-cut filter for Day & Night function

#### Video / Audio

- H.264 and M-JPEG video compression simultaneously
- H.264 high profile, main profile and baseline
- Simultaneous multi-stream support
- 3DNR to improve picture quality at low lux
- Two-way audio support with enhanced audio quality

#### Network and Configuration

- Compliant with IEEE 802.3af PoE interface for flexible deployment
- Equipped with Gigabit Ethernet port
- Auto MDI/MDI-X supported
- Supports both IPv6 and IPv4



- Built-in Samba client for NAS
- RTSP / UPnP / 3GPP / HTTPS protocols selectable
- > Easy Installation & Management
- ONVIF compliant for interoperability
- IP66 outdoor classifications for rigorous environment
- 3GPP for 3G mobile remote applications
- RS485 interface for P/T scanner control
- Digital Input/Output for integration with sensors and alarms
- Cam Viewer 3 central management software supported

# **1.4. Product Specifications**

Model	ICA-3260			
Camera				
Image Device	1/2.8 type Sony Exmor RS progressive scan CMOS sensor			
Lens	4.2mm, fixed lens Mechanical IR-cut filter Angle of view : horizontal: 74 degrees / vertical: 57 degrees			
Min Illumination	0.1 lux (color) 0.01 lux (B/W)			
IR Illuminations	IR LED x 24, 850nm Built-in IR illuminators, effective up to 20 meters *The IR distance is based on the environment			
Effective Pixels	1920 x 1080 pixels (Full HD)			
Image				
Video Compression	H.264 / M-JPEG			
Video Resolution	1080P mode         H.264: 1080P / 640 x 480         M-JPEG: 1080P / 640 x 480         1080P mode with WDR         H.264: 1080P / 640 x 480         M-JPEG: 1080P / 640 x 480			
Frame Rate	Up to 60fps for all resolutions			
Image Setting	AE, AWB 3D Noise reduction True WDR Color, brightness, sharpness, contrast, hue Mirror/Flip 10 Privacy Masks Text, time and date overlay Overlay image on video Digital Image Stabilization (DIS)			
Streaming	Simultaneous multi-profile streaming Streaming over UDP, TCP, HTTP, or HTTPS M-JPEG streaming over HTTP (server push) Controllable frame rate and bandwidth AOI			
Audio				
Audio Streaming	Two-way audio			
Audio Compression	RTSP: G.711 64kbps, G.726 32kbps			



Microphone	External microphone input		
Audio Output	Adjustable audio output gain		
Network and Configuration			
Standard	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T		
Protocol	IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DDNS, DHCP, DIPS, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, IGMP, PPPoE, Samba, ICMP, SNMP, QoS		
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 Motion / Tampering / Audio / Face / Cross line detection and external input		
Alarm Events	File upload via FTP, Samba to NAS, email Notification via email, HTTP, and TCP External output activation Audio alert output Go to PTZ preset position		
Video Buffer	Pre- and post-alarm buffering		
General			
Power Requirements	12V DC, 1A IEEE 802.3af Class 3		
Power Consumption	8W max.		
Operating Temperature	-20 ~ 50 degrees C		
Operating Humidity	5 ~ 95% (non-condensing)		
Weight	900g		
Dimensions (W x D x H)	86 x 81 x 97mm		
Emission	CE, FCC		
Connectors	10/100/1000 Mbps Gigabit Ethernet, RJ-45 DC power jack Terminal block for 1 alarm input and 1 output RS-485 interface for scanners, pan/tilt External mic input Audio out Factory default reset button		



# Chapter 2. Hardware Interface

# 2.1 Physical Descriptions





#### Descriptions for I/O cable set:

Interface	Description	
	The input power is DC 12V, 1A.	
DC Power	ONLY use package power adapter supplied with the internet. Otherwise, the product may be damaged.	
RJ45 (LAN socket, PoE )	Connecting to PC or Hub/Switch. For connection to 10Base-T Ethernet or 100Base-TX or 1000Base-T Fast Ethernet cabling, this Ethernet port built auto-negotiation protocol can detect or negotiate the transmission speed of the network automatically. Please use CAT-5 cable to connect the Network Camera to a 1000Mbps Fast Ethernet network switch or hub. ONLY use one power source, either from DC or from 802.3af Power over Ethernet.	
Audio Output (Green, Line Out)	Connecting a loud speaker to the IP Camera. This is for voice alert and two-way audio.	
Microphone Input (Pink, Audio In)	Connecting a microphone to the IP Camera.	
Reset (Factory Default)	This button is used to restore all the factory default settings.	
DI/DO, RS-485	The 6 pin terminal block includes 1 input port and 1 output port, and RS-485 D+ and D	

Terminal block for I/O connectors:

Name	Cable Color	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 -

# 2.2 Hardware Installation

#### 1. Attach the Camera with the included stand

#### 2. Place the Camera on the ceiling or fix it onto wall

Use three screws to fix the Network Camera onto the ceiling or wall.

#### 3. Plug an Ethernet cable into the Camera

Connect an Ethernet cable to the LAN socket located on the Network Camera's bottom and attach it to the network.

#### 4. Connecting the external power supply to Camera

Connect the attached power adapter to the DC power jack of the IP Camera.



Use the 12V DC power adapter, included in the package, to connect to a wall outlet for AC power.

#### 5. Done

Once you have installed the IP Camera well and powered it on, the network accessing type LED will turn on. It means the system is booting up successfully. Furthermore, if you have a proper network connection, and access to the IP Camera, the LED will flash green in the wired



mode or orange in the wireless mode.

# 2.3 Initial Utility Installation

This chapter shows how to quickly set up your IP camera. The camera is with the default settings. However to help you find the networked camera quickly, the windows utility PLANET IP Wizard II can search the cameras in the network that can help you to configure some basic setting before you start advanced management and monitoring.

- 1. Insert the bundled CD into the CD-ROM drive to launch the auto-run program. Once completed, a welcome menu screen will appear.
- 2. Click the "IP Wizard II" hyperlink and a dialog box will appear as shown below.



Date and	le you through th	e program setup	process. Ple	ase wait,
5.5				

3. The "Welcome to the Install Shield Wizard for PLANET IP Wizard II" prompt will be displayed 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 and then press "Next" to continue.



15 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.
< <u>B</u> ack <u>N</u> ext > Cancel

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

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

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





# 2.4 Preparation

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

### 2.4.1 Search and View by PLANET IP Wizard II

When you install the Internet Camera in a LAN environment, you have two easy ways to search your cameras -- either 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 3.0.0.6043		Interface :	00
Device Title	IP Address	Port	MAC	
Se	arching			
	(	)%		
SEARCH Q	Camera:		User Name: admin	
	Model Name:		Password:	
VIEW	Network:			
LAN	DHCP:			
WIRELESS	WiFi:		Off-Line	
EXIT	Connection			
EATT	Connection:			

When launching the Planet IP Wizard II, the "searching" window will pop up. Planet IP Wizard II is starting to search Internet Cameras on the LAN. The existing devices are listed below.



🧈 PLANET IP Wizard II	Version 3.0.0.6043		Interface : 10.1.1.206	00
Device Title	IP Address	Port	MAC	
PLANET IP Camera	10.1.1.98	80	00-30-4F-A2-92-70	
Se	arching			
		22%		
SEARCH	Camera:		User Name: admin	
	Model Name:	ICA-3260	Password: *****	
	Network:	Wired		
LAN 🗖	рнср. Г	ON		
	Difer.	UN	066 1	
WIRELESS	WiFi:	Ethernet Only	OII-Line	
EXIT	Connection:	Not Connected		
	Device ID (for DIPS):	N/A		

#### View

If Planet IP Wizard II finds Internet Camera, the View button will be available. Please select the camera you want to view and click the View button. Then you can see the video from the camera directly. Furthermore, you can double-click the left button of the mouse to link to the Internet Camera by browser.

🧈 PLANET IP Wizard II	Version 3.0.0.6043		Interface : 10.1.1.206	00
Device Title	IP Address	Port M	MAC	
PLANET IP Camera	10.1.1.98	80	00-30-4F-A2-92-70	]
SEARCH 🔍	Camera:		User Name: admin	
	Model Name:	ICA-3260	Password: *****	
	Network:	Wired		
LAN	DHCP:	ON		1
WIRELESS		Eth a su at Ou ha	the former -	
	VVIFI:	Ethernet Only		and the second second
EXIT	Connection:	Success		T
	Device ID (for DIPS):	N/A		6 4 Etx



### 2.4.2 Configuring Network by PLANET IP Wizard II

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. Related settings will be carried out as shown below.

🧈 PLANET IP Wizard II	Version 3.0.0.604	3		Interface : 10.1.1.206	00
Device Title	IP Address		Port	MAC	
PLANET IP Camera	10.1.1.	98	80	00-30-4F-A2-92-70	
SEARCH Q	LAN:			lleer Name: admin	
	Network:	O Static IP	● DHCP IP	Password:	
VIEW O	IP Address:	10.1	. 1 . 98		
LAN	Subnet Mask:	255.255	.255.0		
WIRELESS	Gateway:	10.1	. 1 .254	Off-Line	
	DNS1:	168.95	. 1 . 1		
EXIT	DNS2:	168.95	. 1 . 2		
ļ			>>		

In case, you do not want to change username and/or password, then just click the "**Submit**" button to perform your setting accordingly. Click the "<<" button to go back to the 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 shown below.



🧈 PLANET IP Wizard II	Version 3.0.0.6043		Interface : 10.1.1.206	00
Device Title	IP Address	Port	MAC	
PLANET IP Camera	10.1.1.98	80	00-30-4F-A2-92-70	
SEARCH	User:		User Name: admin	
VIEW O	<b>☑</b> Change Password		Password:	
LAN	User Name: admin			1
WIRELESS	New Password:		and for the	and and a
EXIT	Confirm Password:		ALA	
	< Submit			8.8

After keying in the new username and password, click the "**Submit**" button to perform your setting accordingly. Click the "<<" button to go back to the previous page.

# 2.5 Using UPnP of Windows XP or 7

## 2.5.1 Windows XP

UPnP<sup>™</sup> is short for Universal Plug and Play, which is a networking architecture that provides compatibility among networking equipment, software, and peripherals. 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.





#### Go to Start > Settings, and Click Control Panel.



The "Control Panel" will display on the screen and double-click "Add or Remove Programs" to continue.

🎐 Control Panel							
File Edit View Favorites Tools	; Help						
🕝 Back 👻 🌍 👻 🏂 🔎	Search 🔀 Fold	lers 🛄 -					
Control Panel	Ç,	Ż	6	<b>P</b>	🌯	P	8
Switch to Category View	Accessibility Options	Add Hardware	Add or Remove Programs	dministrative Tools	Automatic Updates	Date and Time	Display
	1					3	
See Also 🄇	Falder Oaking	<b>Freebo</b>		<b>T</b>			
👋 Windows Update	Folder Options	FUNCS	Controllers	Options	reyboard	Mouse	Connections

The "Add or Remove Programs" will display on the screen and click **Add/Remove Widows Components** to continue.

🐻 Add or Re	move Programs			K
5	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name	
C <u>h</u> ange or Remove	🏉 Windows Internet Explorer 8		Size <u>4.20MB</u>	
Programs	Click here for support information.		Used <u>occasionally</u>	
			Last Used On 12/4/2012	
	To remove this program from your computer, click Remove.		Remove	
Programs				
Add/Remove Windows Components				



The following screen will appear, select "Networking Services" and click "Details" to continue.

ws Components a can add or remove comp	onents of Windows XP.		R
add or remove a compone of the component will be ails.	nt, click the checkbox. A sh installed. To see what's incl	naded box means that only uded in a component, click	
Message Queuing		0.0 MB 🔻	1
MCSSage Queung		13.2 MB	
Hand Networking Services		0.3 MB	
Dther Network File an	nd Print Services	0.0 MB	
Cutlook Express		оомв 🞽	
cription: Contains a varie	ty of specialized, network-rel	lated services and protocols.	
al disk space required:	54.7 MB	Dataila	
ice available on disk:	1926.8 MB		
	add or remove a compone of the component will be ails. nponents: Message Queuing MSN Explorer Networking Services Dither Network File ar Contains a varie scription: Contains a varie al disk space required: ace available on disk:	add or remove a component, click the checkbox. A st of the component will be installed. To see what's incl ails. nponents: Message Queuing MSN Explorer Networking Services Contains Services Contains a variety of specialized, network-rel al disk space required: 54.7 MB ace available on disk: 1926.8 MB	add or remove a component, click the checkbox. A shaded box means that only of the component will be installed. To see what's included in a component, click ails. nponents: Message Queuing 0.0 MB MSN Explorer 13.2 MB MSN Explorer 0.3 MB Duthork File and Print Services 0.0 MB Components 0.0 M

The "Networking Services" will display on the screen, select "**Universal Plug and Play**" and click "**OK**" to continue.

Networking Services		
To add or remove a compone of the component will be inst Sub <u>c</u> omponents of Networki	ent, click the check box. A shaded box alled. To see what's included in a com ng Services:	x means that only part ponent, click Details.
🗹 🛃 Internet Gateway De	vice Discovery and Control Client	0.0 MB 🔗
🗆 🌉 RIP Listener		0.0 MB
Simple TCP/IP Servi	ces	0.0 MB
🗹 🚚 Universal Plug and F	Play	0.2 MB
Description: Allows you to software that Total disk space required: Space available on disk:	find and control Internet connection sh uses Universal Plug and Play. 54.7 MB 1926.8 MB OK	haring hardware and



Please click "Next" to continue.

Windows Components Wizard	
Windows Components You can add or remove components of Windows XP.	<b>E</b>
To add or remove a component, click the checkbox. A shaded box means part of the component will be installed. To see what's included in a compo Details. Components:	s that only nent, click
Message Queuing	0.0 MB 🔼
MSN Explorer 1:	3.2 MB
🖬 🎦 Networking Services	0.3 MB
🔲 🚔 Other Network File and Print Services	0.0 MB
California Cutlook Express	помв 🞽
Description: Contains a variety of specialized, network-related services an Total disk space required: 54.7 MB Space available on disk: 1926.8 MB	id protocols. <u>D</u> etails
< <u>B</u> ack Next≻	Cancel

The program will start installing the UPnP automatically. You will see the pop-up screen as shown below. Please wait while Setup configures the components.

idows Co	mponents Wizard
<b>Configurin</b> Setupi	ig Components s making the configuration changes you requested.
6	Please wait while Setup configures the components. This may take several minutes, depending on the components selected.
Status:	Completing configuration of Internet Information Services (IIS)
	)



Please click "Finish" to complete the UPnP installation



Double-click "**My Network Places**" on the desktop, the "My Network Places" will display on the screen and double-click the UPnP icon with Internet Camera to view your device in an Internet browser.



#### 2.5.2 Windows 7

Go to Start > Control Panel > Network and Internet > Network and Sharing Center, if network discovery is off; click the arrow button to expand the section. Click Turn on network discovery, and then click Apply. If you are prompted for an



administrator password or confirmation, type the password or provide confirmation.



	-	<b>-</b> - X
🔆 💭 = 🗟 « Network and Sharing Center 🔸 Advanced sharing settings 🔹 🗸	Search Control Panel	٩
Change sharing options for different network profiles		
Windows creates a separate network profile for each network you use. You can choose each profile.	specific options for	
Home or Work		
Public (current profile)		E
Network discovery		
When network discovery is on, this computer can see other network computer visible to other network computers. <u>What is network discovery?</u>	ers and devices and is	
<ul> <li>Turn on network discovery</li> <li>Turn off network discovery</li> </ul>		
File and printer sharing		
When file and printer sharing is on, files and printers that you have shared fro be accessed by people on the network.	om this computer can	
Turn on file and printer sharing		
Turn off file and printer sharing		
Public folder sharing		
When Public folder sharing is on, people on the network, including homegro access files in the Public folders. What are the Public folders?	up members, can	
😵 Save cl	hanges Cancel	



Organize   Network and Sharing	Center Add a printer Add a wi	reless device	8× • (	9 1
Favorites     Desktop     Desktop	ICA-3260-00304F3364AB	ICA-2200 - 00304F9F	В59В	
Recent Places	ICA-2500 - 00304FA156F9	ICA-3251V - 00304FA	2612C	
<ul> <li>✓ Constant Constant</li> <li>✓ Documents</li> <li>✓ Music</li> </ul>	ICA-3350 - 00304FA2615C	ICA-3350V - 00304F/	22F0D	E
<ul> <li>D Pictures</li> <li>D Pictures</li> <li>Videos</li> </ul>	ICA-4100	ICA-4200V - 00304FA	29270	
Computer  MN7 (C:)	J ICA-8350 - 00304FA2623A	ICA-HM101 - 003044	A157CF	
	ICA-HM127	ICA-HM131R		
	ICA-HM132	ICA-HM227W		

# 2.6 Setup ActiveX to use the Internet Camera

The Internet Camera web pages communicate with the Internet Camera using an ActiveX control. The ActiveX control must be downloaded from the Internet Camera and installed on your PC. Your Internet Explorer security settings must allow for the web page to work correctly. To use the Internet Camera, user must setup his IE browser as follows:

## 2.6.1 Internet Explorer 6 for Windows XP

From your IE browse  $\rightarrow$  "Tools"  $\rightarrow$  "Internet Options..."  $\rightarrow$  "Security"  $\rightarrow$ "Custom Level...", please set up your "Settings" as follows:

Set the first 3 items

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



Edit View Favorites Tools (14b	
Back 🔕 🔄 🖓 🔞 Search 🚡 Favorit	es 🎯History 🖏 - 🚑 🔟 📃
Internet Options 2	Ŷ×
Genera Security Content Connections Progra	ms Advanced
Select a Web content zone to specify its security	ecurity Settings
	Settings:
Internet Local intranet Trusted sites	ActiveX controls and plug-ins     Download signed ActiveX controls
Internet This zone contains al Web sites you haven't placed in other zones	5 O Prompt Download ansigned ActiveX controls
Security level for this zone	O Disable
Custom Custom settings. - To change the settings, click Custo - To use the recommended settings,	Compt     Prompt     Disable     Disable     Disable     Prompt     Prompt
4 Custom Level	Reset custom settings Reset in: Modum Reset
ОК	8 OK Cancel

By now, you have finished your entire PC configuration for Internet Camera.

## 2.6.2 Internet Explorer 7 for Windows XP

From your IE browse  $\rightarrow$  "Tools"  $\rightarrow$  "Internet Options..."  $\rightarrow$  "Security"  $\rightarrow$ "Custom Level...", please set up your "Settings" as follows:

Set the first 3 items

- Allow previously unused ActiveX control to run...
- Allow Scriptlets
- Automatic prompting for ActiveX controls





Settings			
Active Active Al	X controls and plug-ins low previously unused Active: Disable Enable Disable Disable Enable Prompt utomatic prompting for Active Disable Enable Enable Administrator approved	× controls to i X controls	run without prom
C C	) Disable ) Enable		
	enlav video and animation on	a webpage H	hat does not use 🎽
*Takes effe	ect after you restart Internet	Explorer	
Reset custor	n settings		
<u>R</u> eset to:	Medium-high (default)	*	R <u>e</u> set

By now, you have finished your entire PC configuration for Internet Camera.

#### 2.6.3 Internet Explorer 7 for Windows Vista

From your IE browse  $\rightarrow$  "Tools"  $\rightarrow$  "Internet Options..."  $\rightarrow$  "Security"  $\rightarrow$  "Internet"  $\rightarrow$ "Custom Level...", please set up your "Settings" as follows:

- Enable "Automatic prompting for ActiveX controls"
- Prompt "Initialize and script active controls not marked...."

Settings	Settings
ActiveX controls and plug-ins ActiveX controls to run without pror Disable Enable Enable Disable Enable Disable Enable Disable Enable Disable Enable Disable Enable Disable Enable Disable Enable Reset custom settings Reset to: Medium-high (default) Reset	Okable     (not secure)     Okable     Okable     (not secure)     (no

From your IE browse → "Tools" → "Internet Options..." → "Security" → "Trusted Sites" → "Custom Level...", please set up your "Settings" as follows:

- Enable "Automatic prompting for ActiveX controls"
- Prompt "Initialize and script active controls not marked...."



Settings	Settings
ActiveC controls and plug-ins  ActiveC controls and plug-ins  ActiveC controls and plug-ins  Badde  ActiveC controls and plug-ins  ActiveC controls  Active	Popplay video and animation on a webpage that does not use +     Disoble     Disoble     Disoble     Disoble     Pompt     Disoble     Disoble

By now, you have finished your entire PC configuration for Internet Camera.





# **Chapter 3. Web-based Management**

This chapter provides setup details of the Internet Camera's Web-based Interface.

# 3.1. Introduction

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

# 3.2. Connecting to Internet Camera

A. Use the following procedure to establish a connection from your PC to the Internet Camera. B. 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>"



The login window of Internet Camera will appear, Default login **username and password** are both **admin**.

Windows Security	
The server 192.	168.0.20 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 logging on, you should see the following messages at the top of Internet Explorer:



Click on the message, and click Run Add-on



C PLANET IP Surveillance Web Management - Windows Internet Explorer				
(3) ▼ (2) http://192.168.0.20/				
<u>File Edit View Favorites Tools H</u> elp				
🔆 Favorites 🛯 🎉 PLANET IP Surveillance Web Management				
⑦ This website wants to run the following add-on: ?	PLANET Media Control' from PLANET Technology Corporation'. If you trust th	website and the add-on and want to a)	w it to run, click here	
		Kun Add-on		
<b>PLANET</b>		What's the Risk?		
Networking & Communication				
		Information Bar Help		

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

Internet	Explorer - Security Warning
Do you i	want to run this ActiveX control?
Nar	me: PLANET Media Control
Publish	er: 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 has been installed and run, the first image will be displayed.

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



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

# 3.3 Live View

Start-up screen will be as follows whether you are an ordinary user or an administrator.



# 60fns Full HD IP Bullet IP C

Networking & Communication		60fps Full HD IR Bullet IP Camera ICA-3260			
Video Profile PROFILE1 H264 / 1920X1088	Video Prof Streaming P Language Setting Menu Client Menu	ile rotocol CactiveX Control ActiveX Control Image Monitoring Section Video Information Show Status Bar			
Current viewers : 1	2-way Auc	the camera is shown here. The date and time are			
Section	displayed at the top of the window.				
Video Profile	The camera support multi-profile for three compressions H264 and M-JPEG simultaneously. User can choose the proper and/or preferred profile here.				
Full Screen	Click this button to available space to	o display the image in full-screen mode (uses every display the image captured by this camera).			
2-way Audio	The Internet Car choose to enable : Disable	mera supports 2-way audio function. User can or disable this function by toggling the icon below. 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 in a detailed setting for the camera that is only available for user logged into camera as administrator.				
	Item	Action			
	Network	Configure Network settings such as IPv6, ONVIF, DHCP, DDNS, 3GPP, PPPoE and UPnP.			
	Camera	Adjust camera parameters.			



	System	Configure system information, date and time, maintenance, and view system log file.			
	Video	Configure bit rate and frame rate of video profiles.			
	Audio	Configure audio parameters.			
	User	Set up user name, password and login privilege.			
	Protocol	Set up ONVIF and SNMP configuration.			
	E-mail	Set up e-mail configuration.			
	Event Detection	Set up object detection.			
	Storage	Status and configuration of SD card and Samba server.			
	Continuous Recording	Files list inside the SD Card and Samba server.			
	Recording List	Files list inside the SD Card.			
	Event Server	Set up FTP/TCP/HTTP/Samba server for event			
	Event Schedule	Configure the schedule while event is triggered.			
Streaming Protocol	User can select p environment.	roper streaming protocol according to networking			
Language	The device can requirements.	provide multiple languages to meet customer's			
Client Setting:	Click this button to display the client extra control panel for 2-way Audio and Full Screen.				
Video Information	Display video information including video format, resolution, frame				

# 3.4 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.

rate and bit rate.

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





Browser

# 3.4.1 Digital Zoom

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



#### 3.4.2 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, and 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 the graph editing tools.





### 3.4.3 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. If you want to stop it, press Stop to stop recording. Select Browser, the pop-up window to select the save path and file name prefix, and select **OK** to continue.

After recording is stopped, list the files. This file is named as

Video\_yyyymmddhhmmss.asf. The ASF files can be displayed by the standard Windows Media Player, but it needs the DixectX 9.0 or later version to be installed.



## 3.4.4 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 to mute the speaker output.



**3.4.5 About** Click "**About**" to show the ActiveX information





# 3.5 Network Configuration

Use this menu to configure the network to connect the device and the clients.

# 3.5.1 Network

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

Netwo	rk IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	IP Filter	IP Notification	QoS
M/	AC Address		00:3	0:4F:A3:58:E#	λ.					
	Obtain IP add	lress automa	atically (DHC	CP)						
IP	Address		192	.168.0.11	Test	l				
Su	ıbnet Mask		255	.255.255.0						
Ga	nteway		192	.168.0.1						
	Obtain DNS fi	rom DHCP								
Pri	imary DNS		192	.168.0.1						
Se	econdary DNS		8.8.	8.8						
нт	TTP Port		80		(1 ~ 6	5535) 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 issue IP address assignment. With this setting, the IP address is assigned automatically. If this device 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 "Obtain an IP address automatically", then you need to enter these network parameters by yourself.
IP Address	This address is a unique number that identifies a computer or device on the WAN or LAN. These numbers are usually 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 security and performance to



	some level by organizing hosts into logical groups. Subnet masks contain four bytes and usually appear in the same "dotted decimal" data. For example, a very common subnet mask in its 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.
Obtain DNS from DHCP	Enable this checked box when a DHCP server is installed on the network and provide DNS service.
Primary DNS	When 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 controlled across the Internet.
Secondary DNS	The same function as DNS1. It is optional.
	The 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 in the back of IP address. For example: http://192.168.0.20:8080.
HTTP Port	Therefore the user can be seen the device by sither
	http://xx.xx.xx/, or
	http://xx.xx.xx.xx:xxxx/ to access the device.
	If multiple devices are installed on the LAN and also required to be accessed from the WAN, then the <b>HTTP Port</b> can be assigned as the virtual server port mapping to support multiple devices.



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

When the configuration is finished, please click  $\ensuremath{^\circ} OK\ensuremath{^\circ}$  to save and enable the setting.

# 3.5.2 IPv6

Internet Protocol version 6 (IPv6) is called the "IP Next Generation" (IPng), which is designed


to fix the shortcomings of IPv4, such 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	IP Filter	IP Notification	QoS		
IPv6	Disable Enable											
IPv6		To er	able or	disable	the IPv6 fu	nction h	oro					

## 3.5.3 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 idea of HTTPS is to create a secure channel over an insecure network. This ensures reasonable protection from eavesdroppers and man-in-the-middle attacks, provided that adequate cipher suites are used and that the server certificate is verified and trusted.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	IP Filter	IP Notification	Qo S		
HTTPS			• C	Disable Enable								
Port			443		(1 ~ 6	5535) Test						
							-					

HTTPS	To enable or disable the HTTPS service here. Note that the HTTPS function of this device is not only encrypted the web content but also audio/video data.

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

### 3.5.4 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 address 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 easily 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 with at least one IP address which is used to connect to the Internet. The address you get may be static, meaning it never changes, or dynamic, meaning it's likely to change periodically. Just how often it changes, depending 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.



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The Internet uses DNS servers to look up 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 listing 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 home page of the service for detailed instructions or refer to Appendix E for more information.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	IP Filter	IP Notification	QoS				
DDNS			• [	)isable 💿 Er	nable									
Serve	Name		PLA	PLANET DDNS 🗸										
DDNS	Host		brai	brandonw .planetddns.com (6 ~ 16 Digits )										
User N	lame		brai	ndonw	(6~16	Digits)								
Passv	vord		•••	•••	(6~16	Digits)								
Intern	et Status		Conn	ected (123.1	94.107.27)									

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

This model comes with Planet easy DDNS. When this function is enabled, DDNS host name will appear automatically. User does not need to go to <u>www.planetddns.com</u> to apply for a new account.

Network IPv6 HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	IP Filter	IP Notification	QoS			
DDNS	•1	Disable      Enable									
Server Name	PLA	PLANET Easy DDNS 🗸									
DDNS Host	pla:	pla358ea.planetddns.com									
Internet Status	Conr	nected (123.1	94.107.27)								

## 3.5.5 PPPoE

PPPoE: Stands for Point to Point Protocol over Ethernet

A standard builds on Ethernet and Point-to-Point network protocol. It allows Internet Camera 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 set up in a LAN environment to program the PPPoE information first, and then connect to the xDSL modem. Power it on again to enable the device to dial on to the ISP for connecting to the WAN through the xDSL modem.

The procedures are

• Connect to a LAN by DHCP or Fixed IP



• Access the device by entering **Setting > Network > PPPoE** as shown below:

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	IP Filter	IP Notification	QoS		
DDDoF				•								
PPPOE												
User N	ame				(< 65	Digits)						
Passw	vord				(< 65	Digits)						
IP Add	ress				(reado							
Subnet	t Mask				(reado	o <b>niy</b> )						
Gatewa	ay				(reado	oniy)						
Status					(reado	o <b>niy</b> )						
PP	PoE	-	Fo enab	le or dis:	able the PP	PoF se	rvice here	ć				
			lo onab									
User	Name	• -	Type the	e user na	ame for the	PPPoE	service v	vhich is p	rovided by ISF	».		
_		_										
Pase	sword		lype the	e passwo	ord for the F	PPOE	service w	hich is pro	ovided by ISP.			
	ee / Su	ihnet (	Shows t	ha IP inf	ormation ac	ot from F		orvor sito				
Mask /	Gatew	/ay			ormation ge			erver Site.				
St	atus	ç	Shows t	he Statu	s of PPPoF	conner	rtion					

## 3.5.6 Streaming

RTSP is a streaming control protocol, and a starting point for negotiating transports such as RTP, multicast and Unicast, and for negotiating codes. 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	IP Filter	IP Notification	QoS
	Port					T				
KI SP I	RTSP Port				(554 /	- 65535) 🛄	est			
RTP Po	ort		500	00	~ 509	99	(	1024 ~ 65535)		

RTSP	Port	Choose the RTSP port. The RTSP protocol allows a connecting client to start a video stream. Enter the RTSP port number to use. The default value is 554.
RTP I	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	1. 2.	To use the 3GPP function, in addition to the previous section, you might need more information or configuration to make this function work. The camera must be set as multi-profile mode, not mega-pixel mode.



Otherwise this device cannot serve 3GPP stream.

- 3. To use the 3GPP function, it is strongly recommended to install the Networked Device with a public and fixed IP address without any firewall protection.
- 4. Port 554 is the default for RTSP service. However, sometimes, some service providers change this port number for some reason. If so, user needs to change this port accordingly.

Dialing	1.Choose a verified player (PacketVideo, QuickTime or Real player)
procedure	<ol> <li>Use the following URL to access: <i>rtsp://host/mpeg4/media.3gp</i></li> <li>Where host is the host name or IP address of the camera.</li> </ol>
Compatible 3G mobile	Please contact your dealer to get the approved list of compatible 3G

# 3.5.7 UPnP

phone

phone.

UPnP is short for Universal Plug and Play, which is a networking architecture that provides compatibility among networking equipment, software, and peripherals. 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 added to "My Network Places." If you do not want to use the UPnP functionality, it can be disabled

In addition, this device also provides 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	IP Filter	IP Notification	QoS			
UPnP Friendly Name			Disable      Enable  ICA-3260 - 00304FA358EA  (readonly)										
UPnP	NAT Trave	rsal	• 1	Disable 🔍 Er	nable								
Port R	ange		327	68	~ 6553	35	(1	~ 65535)					
Extern	al IP Addr	ess						(readonly)					
	UPnP		To en	To enable or disable the UPnP service here.									
Frie	ndly N	ame	Show	s the frie	ndly name	of this d	levice he	re.					
UPnP N	IAT Tr	aversal	When enabled, the device will attempt to configure port mapping a NAT router on your network, using UPnP <sup>™</sup> . Note that UPnP must be enabled in the NAT router first.										
Ро	ort Ran	ge	The port range will open in NAT router.										
Extern	al IP a	ddress	Show the IP address and port for WAN access through Internet. If NAT traversal is configured successfully, user can use this IP address and port to access this device.										



### 3.5.8 Bonjour

The Bonjour service allows IP camera to be discovered with Apple Safari browser applied. Once the option is enabled, the IP camera will show the Friendly Name in the Bonjour bookmark menu of Safari browser.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	IP Filter	IP Notification	QoS
Bonjou	Bonjour			)isable 💿 Ei	nable					
Friendly Name			ICA-	3260 - 00304	4FA358EA	(readonly)				

Bonjour	To enable or disable the Bonjour service here.
---------	--

Friendly Name Shows the friendly name of this device here.

### 3.5.9 IP Filter

You can enter different user's IP addresses by entering allow or deny.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	IP Filter	IP Notification	QoS
IP Filte IP Filte	r r Policy		⊙ [ ● [ Sa	Disable • Er Deny • Allow ve	nable N					
			Filt	Filte	er IP List te DeleteAll					

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

**IP Filter Policy** Choose the filter policy where deny or allow is.

### 3.5.10 IP Notification

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



### 60fps Full HD IR Bullet IP Camera ICA-3260

	ICA-3200
Network IPv6 HTTPS DDNS	6 PPPoE Streaming UPnP Bonjour IP Filter <mark>IP Notification</mark> QoS
SMTP Notification(email)	Dirabla 🗖 Enabla
Send To	(< 129 Digits)
Subject II	P notification (< 65 Digits)
TCP Notification	Disable • Enable
TCP Server	(< 65 Digits)
TCP Port	(1 ~ 65535)
Message	(< 65 Digits)
HTTP Notification	Disable 🔍 Enable
URL h	ttp:// (< 61 Digits)
HTTP Login Name	(< 22 Digits)
Proxy Address	(< 22 Digits)
Proxy Port	(< 129 Digits)
Proxy Login Name	(1 ~ 0000)
Proxy Login Password	
SMTP Notification (e-mail)	If this function is enabled, the " <b>Send to</b> " and " <b>Subject</b> " 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 this function is enabled, the <b>"TCP Server</b> ", <b>"TCP Port</b> ", and <b>"Message</b> " 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 this function is enabled, 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.

### 3.5.11 Qos

DDNS PPPoE	Streaming UPnP	Bonjour	IP Filter	IP Notification	QoS
<mark>0 (</mark> 0~6	3)				
<mark>0 (0~6</mark>	3)				
0 (0 ~ 6	3)				
0 (0~6	3)				
	DDNS PPPoE	DDNS     PPPoE     Streaming     UPnP       0     (0~63)       0     (0~63)       0     (0~63)       0     (0~63)       0     (0~63)	DDN S         PPPoE         Streaming         UPnP         Bonjour           0         (0~63)	DDN S     PPPoE     Streaming     UPnP     Bonjour     IP Filter       0     (0~63)       0     (0~63)       0     (0~63)       0     (0~63)       0     (0~63)	DDNS     PPPoE     Streaming     UPnP     Bonjour     IP Filter     IP Notification       0     (0~63)       0     (0~63)       0     (0~63)       0     (0~63)       0     (0~63)

## 3.6 Camera Configuration

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

## 3.6.1 Picture

Pictu	re Exposure Control	Privacy Mask	PTZ Setting	Preset Setting	Tour Setting		
F	Rotation	Normal	~				
V	White Balance	Auto	~				
c	Color Level		50 (0 ~ 100)				
ŀ	lue	<b>[</b>	<mark>49</mark> (0 ~ 100)		16		
E	Brightness		<mark>51</mark> (0 ~ 100)		11-15 齡行/		
C	Contrast	<b>[</b>	50 (0 ~ 100)		THE THE		
9	Sharpness	<b>[</b>	50 (0 ~ 100)		H HANN	HEAL DO T	
I	CR	Photo Sensor	Manual Auto	✓		100	
					=	and a second	
		Current Value 2075	Refresh		111-		
		Night Mode Thresho	id <mark>1500 (</mark> 0 ~ 1	10000)		17	S DAL
		Day Mode Threshold	1 <mark>3150 (</mark> 0 ~ 10	0000)			
		Delay Time <mark>10</mark>	(0 ~ 86400)				
E	DIS	🔍 Off 💿 On					
3	D De-Noise	Strength 3 💙					

Rotation Turn the "Mirror" and "Vertical Flip" On or OFF. The image will be overturned shown below:



 Normal	Mirror
lmage	lmage
Vertical Flip	Mirror + Vertical Flip
Image	әбеші

	Auto will adjust the white helphase outomotically
	Auto, will adjust the white balance automatically.
White Balance	Hold: will hold the white balance.
Color Level	Large value will be colorful.
Hue	Change the value by color tuning.
Brightness	Large value will brighten camera.
Sharpness	Large value will sharpen camera.
Contrast	Large value will contrast camera heavily.
	Use built-in photo sensor or manual to control ICR.
	In case user 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 at 0 lux.
	In case the Auto mode is selected, user needs to specify 3 parameters in advance:
ICR	<b>Night Mode Threshold (0~10000)</b> : this value sets the threshold to turn on IR LED. It should be lower or equal to Day Mode Threshold.
	<b>Day Mode Threshold (0~10000)</b> : this value sets the threshold to turn off IR LED. It should be higher or equal to Night Mode

D. It should be higher or equal to Night Mode turn Threshold.

Delay Time: The delay time between LED ON/OFF switching.

Note: The Current Value is the current luminance from the captured video. It's a useful reference to set LED ON/OFF Threshold.



DIS (Digital Image Stabilization)	This function is used to reduce blurring associated with the motion of a camera during exposure. Specifically, it compensates for pan and tilt of a camera. With video cameras, camera shake causes visible frame-to-frame jitter in the recorded video. Real-time digital image stabilization is used to shift the electronic image from frame to frame of video, enough to counteract the motion. This technique reduces distracting vibrations from videos or improves still image quality by allowing one to increase the exposure time without blurring the image. This technique does not affect the noise level of the image.
2D/3D De-Noise	2D/3D De-Noise can remove or lower unwanted noise and preserve fine details and edges.
Default Settings	Restore to factory image settings.

### **3.6.2 Exposure Control**



Power Frequency	Frequency of power line: 50 or 60Hz.					
	<b>Auto-Indoor:</b> It will adjust the image sensor exposure automatically under indoor environment.					
Exposure Control	Manual Exposure: User can configure sensor exposure to fixed setting.					
	Auto: It will adjust the image sensor exposure automatically.					
	, , , , , , , , , , , , , , , , , , , ,					
Maximum Exposure Time	Set the Maximum Exposure Time. However, the real exposure time may be shorter if there is a good light condition.					



brightness value (Exposure Value).

WDRThis function is to provide clear images even under back light<br/>circumstances. The higher "Strength" level will adjust contrast<br/>compensation stronger.

### 3.6.3 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 captured 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						
Effect	There are two types available: Opaque and Mosaic.						
Level	To define the gray level of mask block. The smaller value will be darker.						
Cell Size	To define the cell size of mask block. This option is related to "Mosaic" type.						



This function is not recommended for camera with PTZ/ePTZ actions.



## 3.6.4 PTZ Setting

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

Picture	Exposure	Control	Privacy Mask	PTZ Setting	Preset Setting	Tour Setting
Came Came Baud	era Protocol era Address rate		none 1 9600 🗸	<b>V</b>		
Camera	Protocol	This dev controls	vice can connect t them through RS	to a PTZ camera S-485 interface.	a or speed dome c	amera and
Camera	Address	This is the T	he camera ID set ease DO NOT cl eds to check and	in PTZ camera nange the defau set value prope	or speed dome ca ult value unnecess rly for both sides.	amera. arily. If so,
Baud	Rate	This is t scanner	he communicatio	on speed betwe	en network modu	le and P/T

If these parameters need to be changed, user needs to check and set value properly for both network module and P/T scanner.

## 3.6.5 Preset Setting

Note

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

Pictu	re	Exposure	Control	Privacy Mask	PTZ Setting	Preset Setting	Tour Setting	
	Pres	et Number	Preset N	ame Home Posi	tion	P	reset List	
						Preset Number		
						Preset Name		
						Home Position	🛡 Enable 💿 Disable	
						Mod	ify Delete	

## 3.6.6 Tour Setting

Up to 128 positions can be preset, and the camera can be programmed to move to the preset



position sequentially.

ıre	Exposu	ire Cont	trol	Privacy N	lask	PTZ Se	etting	Preset S	etting	Tour Se	etting
_	_					_					
Tour	Number	Tour N	lame	Runr	ing		Section	e Prese	t Name	W	ait Time
							Coquone	0 11000	o mano		
Tour I	lame										
Runni	ng	🔍 Ena	ıble 💿	Disable							
		Add	Modify	/ Delete					M	odify	

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 tour. Maximum 16 points 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.

## 3.7 System Configuration

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



## 3.7.1 System

Sys	tem	D	ate & Time	Ν	laintenance					
Devi	ce Title				ICA 3260					
					(U ~ 30 Digits)					
Soft	ware V	ersi	on		6.S.0.13541					
Netv	vork LE	D			Enable Disable					
Power LED			Enable Disable							
Log			Reload							
Г										
	Nov	8	20:15:05	169	syslog.info syslogd started: BusyBox v1.18.4					
	Nov	8	20:15:05	169	syslog.info /etc/rc1.d/S12sysklogd: \$syslogd startup - OK					
	Nov	8	20:15:05	169	user.notice kernel: klogd started: BusyBox v1.18.4 (2014-03-26 )					
	Nov	8	20:15:05	169	user.info kernel: Initializing cgroup subsys cpuset					
	Nov	8	20:15:05	169	user.info kernel: Initializing cgroup subsys cpu					
	Nov	8	20:15:05	169	user.notice kernel: Linux version 2.6.34.12-WR4.3.0.0_standard-x					
	Nov	8	20:15:05	169	user.warn kernel: CPU: ARMv6-compatible processor [410fb767] rev					
	Nov	8	20:15:05	169	user.warn kernel: CPU: VIPT nonaliasing data cache, VIPT nonalia					
	Nov	8	20:15:05	169	user.warn kernel: Machine: "Xarina" Design Kit from Sony					
	Nov	8	20:15:05	169	user.warn kernel: Memory policy: ECC disabled, Data cache writek					
	Nov	8	20:15:05	169	user.debug kernel: On node 0 totalpages: 32768					
	Nov	8	20:15:05	169	<pre>user.debug kernel: free_area_init_node: node 0, pgdat c067878c,</pre>	~				
	<									

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 this Internet Camera on or off, so that Network LEDs will stop working; in case you don't want other people to 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.

## 3.7.2 Date & Time

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



System Date & Time Maintenance

PC Time	2012-4-20 15:29:59
Adjust	Synchronize with PC
	🗢 Manual setting : Date : 2010 💙 - May 💙 - 21 💙 Time : 00 💙 : 00 💙 : 00 💙
	• Synchronize with NTP
NTP Server	time.stdtime.gov.tw Test
NTP Sync. Interval	24 hour 🔽
Timezone	GMT (Dublin, Lisbon, London, Reykjavik) 🕑
Daylight Saving	O Disable 🔍 Enable
Daylight Saving StartTime	Jan 🕑 01 🔽 00 🟹: 00 🟹: 00 🔽
Daylight Saving StopTime	Jan 🕑 01 🔽 00 🟹: 00 🟹: 00 🔽
Daylight Saving Offset	+ 🗸 01 🔨 00 🟹 00 🗸

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 synchronization with PC time			
Adjust	Manual Setting:	Click this option to set time and date manually			
	Synchronize with NTP:	Click this option if you want to synchronize the device's date and time with those of time server called NTP server (Network Time Protocol)			
NTP Server Name	Type the host name or IP 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 Greenwich Mean Time in the area where the device is installed.				
Daylight Saving	Check this item to	enable daylight saving adjustment.			
Daylight Saving Start Time	Set up the date and time of daylight saving start time.				
Daylight Saving Stop Time	Daylight Saving         Set up the date and time of daylight saving stop time.           Stop Time				
Daylight Saving       Set up the date of daylight saving offset.         Offset					



### 3.7.3 Maintenance

System	Date & Time	Maintenance	
Defa	ılt Settings (Includiı	ng Network Setting)	Factory Default Settings
Defau	ult Settings (Excludi	ing Network Setting)	Default Settings
Back	up Setting	Backup Setting	l
Resto	ore Setting		Browse Restore Setting Reset
Firmv	vare Upgrade		Browse Firmware Upgrade Reset
Syste	em Restart	Restart	

Default Settings (Including the network setting)	Recall the device hard factory default settings. Note that clicking this button will reset all devices' parameters to the factory settings (including the IP address).
Default Settings (Except the network setting)	The unit is restarted and most current settings are reset to factory default values. This action will not reset the network setting.
Backup Setting	To take a backup of all of the parameters, click this button. If necessary, it will then be possible to return to the previous settings if settings are changed and there is unexpected behavior.
Restore Setting	Click the "Browse" button to locate the saved backup file and then click the "Restore Setting" button. The settings will be restored to the previous configuration.
Firmware Upgrade	The device supports new firmware upgrade.
	1. Close all other application programs which are not necessary for firmware update.
	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.
Make sure that the Firm burned into FLASH ROM	ware only applies to this device; once updated, it will be of system.

6. Once the firmware file is selected, select "Upgrade".



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

**Warning!!!** The downloading firmware procedure cannot be interrupted. If the power and/or network connection are broken during the downloading 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 the "finish" message. Furthermore, do not try to upgrade new firmware if it's not necessary.

System Postart	The	device	is	restarted	without	changing	any	of	the
System Restart	setti	ngs.							

## 3.8 Video Configuration

This device provides 2 modes of video profile. The first one is 1080P WDR mode which supports video resolution up to 1920x1080 with True WDR function. The second one is 1080P 60FPS mode which supports video resolution up to 1920x1080 at 60fps. User only can select either WDR or 60FPS mode to operate the camera. Switching between WDR and 60fps mode, the device will take time to re-configure system.

#### Common **Overlay Image** Video Profile **ONVIF Profile** AOI Video Profile 1080P WDR Mode 1080P WDR Mode Text Overlay Setting Color Default Color 1080P 25FPS WDR Mode 1080P 30FPS Mode Set Color Default Color 1080P 25FPS Mode 1080P 60FPS Mode 1080P 50FPS Mode Position Align Top Left Include Date Predefined YYYY-MM-DD Own %Y-%m-%d (0 ~ 12 Digits) Include Time Predefined 24h ¥ Own %H:%M:%S (0 ~ 12 Digits) Include Text (0 ~ 20 Digits)

## 3.8.1 Common



Video Profile	User can only choose either 1080P or 1080P WDR mode.
Text Overlay Setting	There are some important information that can be embedded into image, including date, time, and/or text.

## 3.8.2 Overlay Image

User can upload bitmap file to the camera and overlay the picture on streaming video and set its attributes.

Common Overlay Image	Video Profile ONVIF Profile AOI
Upload Own Image Font Fam Font Colo Text:	Include overlay image User Defined Text 🗸 ily: Arial 🗸 Font Size: 21 V Bold: B Italic: 1 Underline: U r: A Background Color: BG
	Preview Save
Coordinates File Resolution Chroma Key Transparency	X 0 Y 0 <no image="" overlay=""> FFFFFF Set Color Default Color O (opacity) V</no>
Upload Own Image	There are two options: "Image Overlay Setting" or "User Defined Text".
Image Overlay Setting	Check this item to enable image overlay. Otherwise, the uploaded bitmap will not be overlaid on video.
Coordinates	Set position of image on the video.
File	Information of the uploaded bitmap file.
Resolution	Size information of the uploaded bitmap file.
Chroma Key (Background Color)	Define the Chroma key of the uploaded bitmap file. Then user can set transparency of the bitmap.
Transparency	Lower value will lower transparency. Value 0 means opacity.

## 3.8.3 Video Profile

User can modify the detailed parameter for each video profile on this page.



Common Overlay Image	Video Profil	e ONVIFPr	ofile #	401			
Name Video Type	Resolution	Rate Control	Quality	Bitrate	Max Frame Rate	GOP Control	Multicast
Profile1 h264/Baseline	1920x1080	EVBR	90	-	30	30	no
Profile2 h264/Baseline	640x480	EVBR	90	-	30	30	no
Name	Profile1						
Video Type	h264 💙 Baseline 💙	h264 V Baseline V					
Resolution	1920x1080	~					
Rate Control	EVBR V Quality 90 V Max Bitrate 10000 K bps 1024 ~ 15000						
Max Frame Rate	30 🐱	30 👻					
GOP Control	30 🗸	30 🔽					
Multicast	🔍 Enable 📀	Enable O Disable					
Multicast Video	IP Address 2	39.198.97.181	P	ort 0	(0 means auto, 10	24 ~ 65534)	
Multicast Audio	IP Address 2	39.198.97.181	P	ort 0	(0 means auto, 10	24 ~ 65534)	
īme to live 1 (1 ~ 255)							
Always Enable Multicast	st 🔹 Enable 🗢 Disable						
The High Profile of H.264 codec is automatically changed to Main Profile when the image size is configured as less than 1280x720.							

Name	To assign a name to the selected profile.	
Video Type	Video codec of the selected profile.	
Resolution	Resolution of the selected profile.	
	Defines the rate control method of this profile. There are three options: Constant Bit Rate (CBR), Variable Bit Rate (VBR), and Enhanced Variable Bit Rate (EVBR).	
	For CBR, the video bit rate is between low and high bandwidth based on different resolutions. User can set the desired bit rate to match the limitation of bandwidth.	
Rate Control	For VBR, user should choose the quality level to set the video quality rather than bit rate. The quality level is between 1 and 100. The higher value can reach the better quality but of course will consume higher bandwidth.	
	For EVBR, the video bitrates is based on normal VBR mode. However, the target bitrates can be increased while there are lots of motions in video. The maximum target bitrates will keep a pre-defined time period and then will be 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 updated for 15 frames per second. User can set the desired maximum frame rate versus video quality under the limited bandwidth.	
GOP Control	Defines the Intra/Inter-frame (I/P) ratio of this profile. For example, set the GOP to 30, then the video stream will have one Intra-frame	



	every 30 frames.
Multicast	Enable or disable the multicast function.
Multicast Video	IP address and port for multicast video streaming of the selected profile.
Multicast Audio	IP address and port for multicast audio streaming of the selected profile
Time to live	Time to live (TTL) is a mechanism that limits the lifespan of data in a computer or network. Once the prescribed event count or timespan has elapsed, data is discarded. TTL prevents a data packet from circulating indefinitely.
Always Enable Multicast	Multicast streaming is always enabled or by request

#### Warning!!!

To enable the multicast streaming, make sure your Intranet does support multicast function. Otherwise, your Intranet may fall into network storm seriously.

## 3.8.4 ONVIF Profile

ONVIF protocol defines profile of video streams. In case, the NVR, CMS and/or VMS connect to this device via ONVIF protocol. Use this page to define parameters of video streams.

Common	Overlay Image	Video Profile	ONVIF Profile	AOI			
OnvifProfile1	h264/Ba	iseline 1920	x1080 90	10000	30	30	
OnvifProfile2	h264/Ba	iseline 640x	480 90	2000	30	30	
Name		OnvifProfile1					
		h264 🗸					
video rype		Baseline 💙					
Resolution		1920x1080 🔽					
Pate Control		Quality 90 💌	Quality 90 💙				
Kale Collino		Max Bitrate <mark>10000 K bps 1024 ~ 15000</mark>					
Max Frame Ra	ite	30 🔽					
GOP Control		30 🔽					
Audio		🔍 Enable 📀 Di	sable				
Multicast Vide	0	IP Address 239	198.97.181	Port 0	(0 means auto, 10)	24 ~ 65534)	
Multicast Audi	0	IP Address 239	198.97.181	Port 0	(0 means auto, 10	24 ~ 65534)	
Time to live		1	(1 ~ 255)				
The High Profile	The High Profile of H.264 codec is automatically changed to Main Profile when the image size is configured as less than 1280x720.						

Name

To assign a name to the selected profile.

Video Type Video codec of the selected profile.



Resolution	Resolution of the selected profile.
	Defines the rate control method of this profile. There are three options: Constant Bit Rate (CBR), Variable Bit Rate (VBR), and Enhanced Variable Bit Rate (EVBR).
Rate Control	For CBR, the video bit rate is between low and 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 bit rate. The quality level is between 1 and 100. The higher value can reach the better quality but of course will consume higher bandwidth.
	For EVBR, the video bitrates is based on normal VBR mode. However, the target bitrates can be increased while there are lots of motion in video. The maximum target bitrates will keep a pre-defined time period and then will be 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 updated for 15 frames per second. User can set the desired max frame rate versus video quality under the limited bandwidth.
GOP Control	Defines the Intra/Inter-frame (I/P) ratio of this profile. For example, set the GOP to 30, then the video stream will have one Intra-frame every 30 frames.
Audio	Enable or disable the audio function.
Multicast Video	IP address and port for multicast video streaming of the selected profile.
Multicast Audio	IP address and port for multicast audio streaming of the selected profile
Time to live	Time to live (TTL) is a mechanism that limits the lifespan of data in a computer or network. Once the prescribed event count or timespan has elapsed, data is discarded. TTL prevents a data packet from circulating indefinitely.

### Warning!!!

To enable the multicast streaming, make sure your Intranet does support multicast function. Otherwise, your Intranet may fall into network storm seriously.

### 3.8.5 AOI

AOI means Area of Interest. Use this page to specify location and size of AOI windows. Only the profiles with H.264 codec and VBR rate control can support AOI function. It enables a non-uniform distribution of the image quality between a selected region (the AOI) and the rest



#### of the image (background).



Add and Del	To add or delete the AOI windows. User can specify up to 2 AOI windows to change the video quality in specified areas. By dragging mouse on the image, you can change the position and size of the selected AOI window accordingly
Name	Name of the specified AOI window.
Level	Adjust the video quality of specified AOI window. The higher value will be better video quality.



This function is not recommended for camera with PTZ/ePTZ actions

## 3.9 Audio Configuration

It's M-JPEG mode in this profile.



Setting	
Audio	Disable      Denable
Audio Type	g726 🗸
Audio Mode	○ Simplex ● Full duplex
Input Gain	80 💌
Output Gain	80 😒
Speaker Out	Disable O Enable
Audio	To enable or disable audio function.

Audio	
Audio Type	To select G711 or G726 for <i>audio</i> 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.

## 3.10 User 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					
Viev	ver Login	• A	nonymous 🌢 Only us	ers in database Save	
Use	er Name	Access Right	PTZ Control		User List
ad	lmin	administrator	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 "Anonymous" to allow any one viewing the video once connected. Otherwise, only users in database can view the video after login.
Access Right	Administrator can access every function in this device. However, Viewers only can view the video and access limited function.
PTZ Control	Authorize this user to control PTZ function or not.
Add, update, and remove of Users account	Manage the user's account of viewer user.

## **3.11 Protocol Configuration**

## 3.11.1 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. In other words, it creates a standard for how IP products within video surveillance and other physical security areas can communicate with each other.

icablo 🍙 Enablo
1.0 • V1.01/V1.02/V2.0/V2.1.1/V2.2/V2.3/V2.4
) /

## 3.11.2 SNMP

**Simple Network Management Protocol (SNMP)** is an "Internet-standard protocol for managing devices on IP networks". Devices that typically support SNMP include routers, switches, servers, workstations, printers, and more. It is used mostly in network management systems to monitor network-attached devices for conditions that warrant administrative attention.

SNMP is a component of the Internet Protocol Suite as defined by the Internet Engineering Task Force (IETF). It consists of a set of standards for network management, including an application layer protocol, a database schema, and a set of data objects. SNMP exposes management data in the form of variables on the managed systems, which describe the system configuration. These variables can then be queried (and sometimes set) by managing applications.

ONVIF SNMP		
SNMP V1	Disable Enable	
SNMP v2c	Disable Stable	
Read community	public	(< 33 Digits)
Write communit	write	(< 33 Digits)



SNMP version 1 (SNMPv1) is the initial implementation of the SNMP protocol. SNMPv1 operates over protocols such as User Datagram Protocol (UDP), Internet Protocol (IP), OSI Connectionless Network Service (CLNS), AppleTalk Datagram-Delivery Protocol (DDP), and Novell Internet Packet Exchange (IPX). SNMPv1 is widely used and is the de facto network-management protocol in the Internet community

*SNMPv2c* is defined in RFC 1901–RFC 1908. In its initial stages, this was also informally known as *SNMPv1.5*. SNMPv2c comprises SNMPv2 *without* the controversial new SNMP v2 security model, using instead the simple community-based security scheme of SNMPv1. While officially only a "Draft Standard", this is widely considered the *de facto* SNMPv2 standard.

## 3.12 E-mail Configuration

User may set up SMTP mail parameters for further operation of Event Schedule. 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.

Setting	
SMTP Server	mail.planet.com.tw (< 129 Digits) Test
SMTP Port	25 (1 ~ 65535)
SSL	O Disable ● Enable
SMTP Authentication	Disable     Enable
Authentication User Name	admin (< 65 Digits)
Authentication Password	(< 22 Digits)
E-mail To	admin@planet.com,.tv (< 129 Digits)
E-mail Subject	support@planet.com,tw (< 129 Digits)
	message (< ob bigits)
	Type the SMTP server name or the IP address of the SMTP
SMTP Server	server.
Test	Send a test mail to mail server to check this account is available
1030	or not.
SMTD Dort	Set part number of SMTP convice
SWIFFOIL	Set port number of Sivire Service.
SSI	Enable SSL function or not
OOL	
	Select the authentication required when you send an e-mail.
SMTP Authenticatio	<b>n Disable:</b> If no authentication is required when an e-mail is sent
	<b>Enable:</b> If authentication is required when an e-mail is sent.
Authentication Use	<b>r</b> Type the user name for the SMTP server if Authentication is
Name	Enabling.
	5



Authentication Password	Type the password for the SMTP server if Authentication is Enabling.
E-mail From	Type the sender's E-mail address. This address is used 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.

## **3.13 Event Detection Configuration**

This device supports 5 types of event detection: Object Detection, Camera Tampering, Audio Detection, Face Detection, and Cross Line Detection.

## 3.13.1 Object Detection

Object Detection responds to some kind of object actions in the captured image which will trigger an alarm.

An alarm will be triggered when an object is entering or passing through a specified area or when an object has been left or removed from a guarded area.



Add and Delete	To add or delete the motion windows. User can specify up to 4 included and /or excluded windows to monitor the video captured by this device. By dragging mouse on the image, you can change the position and size of the selected motion window accordingly.
Name	Name of the specified motion window.



#### 60fps Full HD IR Bullet IP Camera ICA-3260

	Entrance - A moving object exists inside the guarded area.
Туре	Theft - A static object has been removed from the guarded area.
	Desertion - A moving object has been left in the guarded area.
Time until theft/desertion object is detected	Specify the reference interval in seconds
Min. Inspection Trigger Size	Specify the minimum trigger size of motion.
Max. Inspection Trigger Size	Specify the maximum trigger size of motion.
Slow Trigger Speed	Specify the minimum speed to be detected.
Fast Trigger Speed	Specify the maximum speed to be detected.
	Specify the video motion detection details.
	<b>Enable / Disable:</b> Select Enable to activate the function to detect object. The dynamic object will be displayed on the monitor in the blue frame. And the static object will be displayed on the monitor in the red frame.
	Add Detected: Clicking this button will add an active window on the image screen. User can drag to move the window or resize it.
	Add Non-Detected: Clicking this button will add an inactive window on the image screen. User can drag to move the window or resize it.
	<b>Delete:</b> Clicking this button will delete a window on the image screen.
	Name: Name of the specified VMD window.
Adjust VMD	<b>Sensitivity</b> Define the sensitivity value of object detection. The higher value will be more sensitivity.
	<b>Detection Response</b> Set the response velocity of motion detection.
	Min. Inspection Trigger Size: Specify the minimum detection size.
	Max. Inspection Trigger Size: Specify the maximum detection size.
	Moving Shadow Exemption:
	Set ON/OFF for the moving shadow exemption function of object detection. Selecting Do Not Respond to Shadows will prevent the shadows of a moving object from being recognized as moving objects.
	Note: This function is not recommended for camera with PTZ/ePTZ actions



## 3.13.2 Camera Tampering

Camera tampering detection is a new intelligent functionality that further strengthens the benefit of Network Camera. When the camera is moved, partially obscured, severely defocused, covered or sprayed, an event can be triggered to send notifications, upload images/files to remote server or email.

Object Detection	Camera Tamp	ering	Audio Detection	Face Detection	Cross Line Detection
Camera Tamper Defocus Alarm M Status	ing Aethod	<ul> <li>Disa</li> <li>Con</li> <li>Stop</li> <li>Inactive</li> </ul>	able   • Enable Itinue alarm until defoc p alarm after <mark>10 v </mark> S	us is corrected. econds	
Audio Alarm	Level D	efine th	e threshold value	of audio detection	

Define the Defocus Alarm Method detection. Th to filter false	minimum e triggered alarms.	triggered duration le	duration ess than ta	by rget	camera value will	tampering be ignored
---	-----------------------------------	--------------------------	-------------------------	------------	----------------------	-------------------------

## 3.13.3 Audio Detection

Audio detection alarm can be used as a complement to motion detection. Since audio detection can react to events in areas too dark for the video motion detection functionality to work properly. In addition, it can be used to detect activity in areas outside of the camera's view.

Object Detection	Camera Tampe	ring Audio Detection	Face Detection	Cross Line Detection
Audio Detection	ı	🔍 Disable 💿 Enable		
Audio Alarm Le	vel	· <b>[</b> 6	(0 ~ 100)	

Audio Alarm Level Define the threshold value of audio detection.



## 3.13.4 Face Detection

Face detection responds to faces in the camera image and triggers an alarm.Object DetectionCamera TamperingAudio DetectionFace DetectionCross Line Detection



Enable / Disable

Select Enable to activate the function to detect human face. The detected faces will be marked by rectangles.

## 3.13.5 Cross Line Detection

Cross Line Detection is a so-called tripwire application. The application detects moving objects that cross a virtual line. Once cross line is being detected, camera is able to trigger an event automatically.

Cross Line Detection is possible to increase system efficiency by reducing bandwidth and storage needs. The application will work in most indoor and outdoor installations and in variable lighting conditions. It is well suited for many situations, including video monitoring of building entrances, loading docks and parking lots.

Cross Line Detection is an application especially suitable for general entrance and exit detection in low traffic areas. It detects objects such as persons and vehicles that cross a defined virtual line.

Cross Line Detection is easy to configure. A virtual line is positioned in the camera's live view and the detection direction is set. Once placed in the image there is no need for further adjustments.

The real-time visual confirmation validates in an easy way that the application detects objects correctly. Cross Line Detection integrates with the camera's internal event manager enabling various system notifications.





Add and Delete	To add or delete the line. User can specify up to 10 cross lines to monitor the video captured by this device. By dragging mouse on the image, you can change the position and size of the selected cross line accordingly.
Name	Name of the specified cross line detection.
Monitoring Direction	The arrow displayed in the center of the line shows the direction of inspection. Trigger is performed when an object passes the line in this direction.
Min. Inspection Trigger Size	Specify the minimum trigger size of motion.
Max. Inspection Trigger Size	Specify the maximum trigger size of motion.
Slow Trigger Speed	Specify the minimum speed to be detected.
Fast Trigger Speed	Specify the maximum speed to be detected.
Adjust VMD	Specify the video motion detection details. <b>Enable / Disable:</b> Select Enable to activate the function to detect object. The dynamic object will be displayed on the monitor in the blue frame. And the static object will be displayed on the monitor in the red frame. <b>Add Detected:</b> Clicking this button will add an active window on the image screen. User can drag to move the window or resize it. <b>Add Non-Detected:</b> Clicking this button will add an inactive window on the image screen. User can drag to move the window or resize it.



#### Delete:

Clicking this button will delete a window on the image screen.

#### Name:

Name of the specified VMD window.

#### Sensitivity

Define the sensitivity value of object detection. The higher value will be more sensitivity.

#### **Detection Response**

Set the response velocity of motion detection.

Min. Inspection Trigger Size:

Specify the minimum detection size.

#### Max. Inspection Trigger Size:

Specify the maximum detection size.

#### Moving shadow exemption:

Set ON/OFF for the moving shadow exemption function of object detection. Selecting Do Not Respond to Shadows will prevent the shadows of a moving object from being recognized as moving objects.

Note: This function is not recommended for camera with PTZ/ePTZ actions.

## 3.14 Storage Configuration

This page shows the status of the attached Samba server. You may also set up related parameters to manage the attached Samba server.





## 3.15 Continuous Recording Configuration

You may enable or disable continuous recording function here. Select Samba server for storage destination.

Continuous Recording	
Continuous Recording	Disable      Enable
Record File Type	Profile1 h264 / 1600x1200
Disk	SD Card SAMBA Server
Path	PLANET-00304FA22E92 (For example: Folder1/Folder2/Folder3 ) (1 ~ 63 Digits)
Restart (Restarting wi	II delete the current recording.)
	1



There are various factors affecting the recording results, such as the camera's system loading, network condition, SD card performance, multiple clients accessing, and so on. No guarantee will be given to "seamless recording" in the recorded video files.

## 3.16 Recording List Configuration

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



ontinuous Reco	ording List					
Disk:	SAMBA S	erver				
Path:	PLANET-0	00304FA358EA				
Date		File		Trigger by	Size	
Reload	Recover		Play	Remove		

## 3.17 Event Server Configuration

## 3.17.1 FTP Server

You may set up FTP parameters for further operation of Event Schedule. 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)         Name       FTP (<22 Digits)         FTP Server       192.168.0.174       (<65 Digits) Test         FTP Login Name       admin       (<22 Digits)         FTP Login Password       eeee       (<22 Digits)         FTP Port       21       (1 ~ 65535)         FTP Path       /admin/test       (<65 Digits)         FTP Path       /admin/test       (<65 Digits)	Name FTP Server FTP Port FTP Path FTP 192.168.0.174 21 /anthony/test	
Name     FTP Server     FTP Port     FTP Path       FTP     192.168.0.174     21     /anthony/test       Name     FTP (<22 Digits)	Name     FTP Server     FTP Port     FTP Path       FTP     192.168.0.174     21     /anthony/test	
FTP     192.168.0.174     21     /anthony/test       Name     FTP     (< 22 Digits)	FTP 192.168.0.174 21 /anthony/test	
Name     FTP     (< 22 Digits)       FTP Server     192.168.0.174     (< 65 Digits) Test	Name	
Name     FTP     (< 22 Digits)	Nama ETP (6.22 Dinita)	
FTP Server     192.168.0.174     (< 65 Digits)       FTP Login Name     admin     (< 22 Digits)		
FIP Server     192.168.0.174     (< 65 Digits)       FTP Login Name     admin     (< 22 Digits)		
FTP Login Name     admin     (< 22 Digits)       FTP Login Password     ••••••     (< 22 Digits)	FIP Server 192.168.0.174 (< 65 Digits)	
FTP Login Password     ••••••     (< 22 Digits)	FTP Login Name (< 22 Digits)	
FTP Port         21         (1 ~ 65535)           FTP Path         /admin/test         (< 65 Digits)	FTP Login Password (< 22 Digits)	
FTP Path     /admin/test     (< 65 Digits)       FTP Passive Mode     O Disable Imable	FTP Port 21 (1 ~ 65535)	
FTP Passive Mode 🛛 💿 Disable 🗢 Enable	FTP Path /admin/test (< 65 Digits)	
	FTP Passive Mode 💿 Disable 💿 Enable	

Name



	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.

### 3.17.2 TCP Server

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

FTP Server	TCP Server	HTTP Server	SAMBA Server	
Name		TCP Server	TCP I	Port
Name			(< 22 Digits)	
TCP Server			(< 65 Digits) Te	st
TCP Port			(1 ~ 65535)	
	I			

Name	User can specify multiple TCP servers as wished. 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.

### 3.17.3 HTTP Server

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



FTP Server TCP Server HTTP Se	rver SAMBA Server	
N		
Name RTTP Ser	ver	Proxy Address
, 		
Name		(< 22 Digits)
URL	http://	(< 129 Digits) Test
HTTP Login Name		(< 22 Digits)
HTTP Login Password		(< 22 Digits)
Proxy Address		(< 129 Digits)
Proxy Login Name		(< 22 Digits)
Proxy Login Password		(< 22 Digits)
Proxy Port		(1 ~ 65535)
	-	

Name	User can specify multiple HTTP servers as wished. 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.

### 3.17.4 SAMBA Server

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



FIPS	Server TCP Server	HTTP Server	SAMBA Server	
Name	SA	MBA Server	SAMBA Path	1
samba	. 19:	2.168.0.201	share	
Name		sam	aba	/< 22 Dinits)
SAMBA	\ Server	192	.168.0.201	(< 65 Digits) Test
SAMBA	A Login Name	test	t	(< 22 Digits)
SAMBA	Login Password	•••		(< 22 Digits)
			re	(< 65 Digits)
SAMBA	A Path	Sila		

Name	User can specify multiple HTTP servers as wished. 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.

## 3.18 Event Schedule Configuration

This menu is used to specify the schedule of Events and activate some actions provided by this device.



## 3.18.1 Setting

Setting Re	ord Port Status							
Name	Enable Type Weekday Start Duration Trigger by Prefix Action							
Name								
Enable	♦ Yes ♦ No							
Туре	Event Trigger Schedule Trigger, Interval 60 (Seconds)							
	🗹 Sun 🗹 Mon 🗹 Tue 🗹 Wed 🗹 Thu 🗹 Fri 🗹 Sat							
	Start from 0 👻 0 💌 , Duration 24 💟 0 🖤 ((max 168:00 hours) )							
	Sensor Change to active 🔽							
	Camera Tampering							
	Audio Detection Over Alarm Level 👻							
Trigger by	Face Detection							
	Cross Line Detection							
	Object Detection							
	Network Disconnect							
Record File Prefix	(0 ~ 48 Digits)							

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	Define 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 is triggered.


#### Example1.

Setting Reco	rd Port Status					
Name	Enable Type	Weekday	Start Dur	ation Trigger by Prefix	< Action	
Send to FTP	yes Event	1111111	0:0 24:0	0 x,M0,1	FTP, IR	
	1					
Name	Send to FTP					
Enable	• Yes • No					
Туре	Event Trigger	Schedule Trigg	ger, Interval	60 ( Seconds)		
Enable Time	Start from 0 0	Tue 🗹 Wed 🗹	Thu 🗹 Fri 24 💙 0	☑ Sat ☑ ((max 168:00 hours) )		
Trigger by	Sensor Change	to active	🗹 🗹 Motio	n Area DefaultWindow 💟	PIR Change to active	<b>∽</b>
Record File Prefix		(0 ~ 20 Dig	jits)			
	Voice Alert, Dura	ation (	0~86400 Sec	onds )		
	Alarm Out, Dura	tion ( C	~86400 Seco	nds )		
	Send FTP	<b>~</b>				
	Send TCP					
Action	Send HTTP					
	Send E-Mail					
	White-Light LED	Night Mode 🗸	30 (0	)~86400 Seconds )		
	Send SD					

Send file to FTP server by motion triggered always:

- 1. Select event trigger
- 2. Enable time: start from 00:00 to 24:00 every day
- 3. Triggered by: Motion Area (Added to the Object Detection page)
- 4. Action : Send FTP (Add in Event Server -> FTP Server page)



### Example2.

Setting Rec	ord Port Status						
Name	Enable Type	Weekday	Start Duration	Trigger by Prefix	Action		
Send to FIP	yes Event		0:0 24:0	x,ri0,1	FIP,IR		
Name	Send to E-mail						
Enable	🔍 Yes 🌑 No						
Туре	Event Trigger	Schedule Trigg	er, Interval <mark>60</mark>	( Seconds)			
Eachle Time	🗹 Sun 🗹 Mon 🗹	Tue 🗹 Wed 🗹	Thu 🗹 Fri 🗹 Sat				
chable fime	Start from 🛛 💙 🛛	✓ , Duration	24 💙 0 💙 ((m:	ax 168:00 hours) )			
Trigger by	Sensor Change	to active 🔉 🔪	🖉 🗹 Motion Area	DefaultWindow 🚩 🗹 🖡	VIR Change to active	<b>V</b>	
Record File Prefix		(0 ~ 20 Digi	its)				
	Voice Alert, Dura	tion ( 0	~86400 Seconds )				
	Alarm Out, Durat	ion( 0^	86400 Seconds )				
	Send FTP	<ul> <li>Image: A set of the set of the</li></ul>					
	Send TCP						
	Send HTTP						
	Send E-Mail						
Action	To email addres	s support@plan	et.com,.tw				
	Subject Motion	Detected!					

Send file to e-mail server by motion triggered from Friday 18:00 to Saturday 06:00

- 1. Select event trigger.
- 2. Enable time: start from Friday 18:00 and keep working for 12 hours, until it stops on Saturday 06:00.
- 3. Triggered by : Motion Area (Added to the Object Detection page)
- 4. Action : Send e-mail (Add to 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.



## Example3.

Name	Enable Typ	e Weekday	Start	Duration	Trigger by Prefix	Action	
Trigger_Voice_A.	. yes Sch	edule 0111110	18:0	12:0	x,x,x	VOICE, IR	
ame	Trigger_Voice	e_Aalert					
Inable	🔍 Yes 🄍 N	D					
Гуре	Event Trig	ger 🍳 Schedule 1	rigger, Inte	erval <mark>600</mark>	( Seconds)		
Enable Time	Sun M	on 🗹 Tue 🗹 Weo	ion 12	- Fri - Sa	t max 168:00 hours) )		
Trigger by	Sensor C	hange to active	× 🗆	Motion Are	a PIR Change t	o active 💟	
Record File Prefix		(0 ~ 20	Digits)				
	Voice Ale	rt, Duration 10	( 0~8640	10 Seconds	)		
	Alarm Out	, Duration	( 0~86400	) Seconds )			
	Send FTP	<b></b>					
	Send TCP	<u> </u>					
Action	Send HTTF	• 🗡					
	Send E-M	ail		_			
	White-Ligh	tLED Night Mode	30	( 0~864	00 Seconds )		
	Send SD						

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

- 1. Type: Select schedule trigger and interval is 10 minutes.
- 2. Enable Time: Select Monday to Friday, and set start time from 18:00 and keep working for in 6 hours.
- 3. Triggered by: You do not need to choose it, because this will be triggered every minute.
- 4. Action: Voice Alert.



## 3.18.2 Record

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

Setting R	Record	Port Status		
D15				
Record F	lle Type		Profile1 h264 / 192	20x1080 💟
Record Fi	ile Prefix			(0 ~ 20 Digits)
Pre Trigg	er Duratio	n	5	(0 ~ 20 Seconds)
Best Effo	rt Duratio	n	30	(1 ~ 60 Seconds)
Max File S	Size		3072	(256 ~ 6144 KB)

Record File Type	Choose AVI or JPEG file format for record file.
Record File Prefix	Define the prefix of recorded filename.
Pre-Trigger Duration	Define the maximum duration of pre-alarm.
Best Effort Duration	Define the best effort duration of post-alarm.
Max File Size	Define the maximum buffer size of record file.

## 3.18.3 Port Status

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





## Appendix A: Ping IP Address

The Ping (stands for Packet Internet Groper) command is used to detect 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 whether Internet Camera is installed or not, or if the IP address conflicts with any other device over the network.

If you want to make sure the IP address of Internet Camera, utilize the Ping command as follows:

- Start a DOS window.
- Type ping x.x.x.x, where x.x.x.x is the IP address of the Internet Camera.

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

-
1

If you want to detect any other device conflicting with the IP address of Internet Camera and also can utilize the PING command, you must disconnect the Internet Camera from the network first.



## Appendix B: 3GPP Access

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

	То	use	the	3GPP	fun	С
	Net	twork	ed D	Device	with	á
lote	pro	tectio	on.			

ction, it is strongly recommended to install the a public and fixed IP address without any firewall

## **RTSP Port:**

Port 554 is the default for RTSP service. However, sometimes, some service providers change this port number for some reasons. If so, user 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.



Besides IP camera and 3G mobile phone, you will also need to make sure ISP and telephone company have provided the 3GPP service to you.



## Appendix C: Bandwidth and Video Size Estimation

The frame rate of video transmitted from the device depends on connection bandwidth between client and server, video resolution, codec type, and quality setting of server. Here is a guideline to help you roughly estimate the bandwidth requirements form 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	Average range of	Average bit rate for	Average bit rate for
Resolution	data sizes for JPEG	MPEG4 mode	H.264 mode
	mode		
320 x 240	8 ~ 20k byte per	256kbps~768kbps	192kbps~512kbps
	frame	@ 30fps	@ 30fps
640 x 480	20 ~ 50K byte per	512kbps~3072kbps @	384kbps~1536kbps
	frame	30fps	@ 30fps
1920 x 1080	200 ~ 500k byte per	-	1536kbps~10000kbps
	frame		@ 30fps
2048 x 1536	300 ~ 750k byte per	-	2048kbps~12000kbps
	frame		@ 30fps



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 speed is more than 128kbps, for optimal video performance, disabling audio streaming will get better video performance.



## Appendix D: DDNS Application

## 1. Configure PLANET DDNS steps:

Step 1: Enable DDNS option through accessing web page of NAS
Step 2. Select on DDNS server provided, and register an account if you do not use yet. Let's take dyndns.org as an example. Register an account in <a href="http://planetddns.com">http://planetddns.com</a>





## Appendix E: Configuring 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 set up as fixed IP address, and also the port forwarding or Virtual Server function of router needs to be set up. This device supports UPnP traversal function. Therefore, user could use this feature to configure port forwarding of NAT router first. However, if user needs to configure port forwarding manually, please follow the steps below:

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

- 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 set up 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 router that you have on your network. 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 the 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 PLANET	Home   General Setue   Status   Tacl
eresting benomination	Internet Broadband Router
Status Connector Connector Connector Connector System Log Security Log Active DHCP Chent Statistice	Internet Connection
Current Time 1/1/2000 2:01:15	Default Gateway: 0.0.0.0 MAC Address: 00:11 22:66:44:56 Primary DNS : Secondary DNS :

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 router and most routers prevent users from accessing the video from the device over the Internet. The router connects to the Internet over a series 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 Server ports used by the camera 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) in the Private IP field.
- If you are using the default 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.



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.



O PI ANET	Home   General Setup   Status   Too
Networking & Communication	Internet Broadband Router
<ul> <li>System</li> <li>WAN</li> <li>LAN</li> <li>Wireless</li> <li>QoS</li> <li>NAT</li> <li>Port Forwarding</li> <li>Virtual Server</li> <li>Special applications</li> <li>UPnP Setting</li> <li>ALG Settings</li> <li>Firewall</li> </ul>	Virtual Server
	Anniv Cancel

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.



# **Appendix F: 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, Paraná (including Curitiba), Rio de Janeiro, 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	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 50Hz (Tokyo, Kawasaki, Sapporo, Yokohoma, and Sendai); Western Japan 60Hz (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 nominal voltage has been officially changed to 230V, 240V is within tolerances and commonly found.
United States of America	120V	60 Hz	



# Appendix G: Troubleshooting & Frequently Asked Questions

	Features
The video and audio codec is adopted in the device.	The device utilizes H.264 and JPEG compression to provide high quality images. Where H.264 is a standard for video compression and JPEG is a standard for image compression. In addition, the H.264 encoder supports baseline, main profile and high profile modes.
	The audio codec is defined as G.711/G.726 for RTSP streaming
The maximum number of user accesses the device simultaneously.	The maximum number of users is limited to 20. However, it also depends on the total bandwidth accessed to this device from clients. 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 outdoors or not.	The device is weatherproof and could be installed outdoor.
	Install this device
Status LED does not light up.	Check and confirm that the DC power adaptor, included in packaged, is used. Secure the power connector and re-power it on again.
The network cabling is required for the device.	The device uses Category 5 UTP cable allowing 10 and/ 100 Base-TX/ 1000 Base-T networking.
The device will be installed and work if a firewall exists on the network.	If a firewall exists on the network, port 80 is open for ordinary data communication. The HTTP port and RTSP port need to be opened on the firewall or NAT router.
The username and password for the first time or after factory default reset	Username = <b>admin</b> and password = <b>admin</b> . Note that it's all case sensitivity.
Forgot the username and	Follow the steps below.
password	<b>1.</b> Restore the factory default setting by pressing and holding down for more than 3 seconds on the device.
	2. Reconfigure the device.
Forgot the IP address of the device.	Check IP address of device by using the PLANET IPWizard program or by UPnP discovery or set the device to default by Reset button.
PLANET IP Wizard II program	• Re-power the device if you cannot find the unit within 1 minute.
cannot nind the device.	<ul> <li>Do not connect device over a router. PLANET IP Wizard II program cannot detect device over a router.</li> </ul>
	<ul> <li>If IP address is not assigned to the PC running PLANET IP Wizard II program, then PLANET IP Wizard II program cannot find device. Make sure that IP address is assigned to the PC properly.</li> </ul>
	<ul> <li>Antivirus software on the PC might interfere with the setup program. Disable the firewall of the antivirus software during</li> </ul>



	<ul> <li>setting up this device.</li> <li>Check the firewall setting of your PC or Notebook</li> </ul>
Internet Explorer does not seem to work well with the device	Make sure that your Internet Explorer is version 6.0 or later. If you are experiencing problems, try upgrading to the latest version of Microsoft's Internet Explorer from the Microsoft webpage.
PLANET IP Wizard II program fails to save the network parameters.	Network may have trouble. Confirm the parameters and connections of the device.
UPnP NAT Traversal	
Cannot work with NAT router	Maybe NAT router does not support UPnP function. Please check user's manual of router and turn on UPnP function.
Some IP cameras are working while others failed	Maybe too many IP cameras have been installed on the LAN, and then NAT router is out of resource to support more cameras. You could turn off and on NAT router to clear out of date information inside router.
Access this device	
Cannot access the login page and other web pages of the Internet Camera from Internet Explorer	• Maybe the IP Address of the Internet Camera is already being used by another device or computer. To confirm this possible problem, disconnect the Internet Camera from the network first, and then run the PING utility to check it out.
	• Maybe due to the network cable. Try correcting your network cable and configuration. Test the network interface by connecting a local computer to the Internet Camera via a crossover cable.
	Make sure the Internet connection and setting are ok.
	Make sure to enter the IP address of Internet Explorer correctly. If the Internet Camera has a dynamic address, it may have changed since you last checked it.
	<ul> <li>Network congestion may prevent the web page from appearing quickly. Wait for a while.</li> </ul>
	The IP address and Subnet Mask of the PC and Internet Camera must be in the same class of the private IP address on the LAN.
	• Make sure the http port used by the Internet Camera, default=80, is forwarded to the Internet Camera's private IP address.
	<ul> <li>The port number assigned in your Internet Camera might not be available via Internet. Check your ISP for available port.</li> </ul>
	• The proxy server may prevent you from connecting directly to the Internet Camera, set up not to use the proxy server.
	Confirm that Default Gateway address is correct.
	<ul> <li>The router needs Port Forwarding feature. Refer to your router's manual for details.</li> </ul>
	<ul> <li>Packet Filtering of the router may prohibit access from an external network. Refer to your router's manual for details.</li> </ul>
	<ul> <li>Access the Internet Camera from the Internet with the global IP address of the router and port number of Internet Camera.</li> </ul>
	Some routers reject the global IP address to access the Internet



	Camera on the same LAN. Access with the private IP address and correct port number of Internet Camera.
	• When you use DDNS, you need to set Default Gateway and DNS server address.
	<ul> <li>If it's not working after the above procedure, reset Internet Camera to default setting and install it again.</li> </ul>
Image or video does not appear on the main page.	• The first time the PC connects to Internet Camera, a pop-up 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.
	<ul> <li>Network congestion may prevent the image screen from appearing quickly. You may choose lower resolution to reduce the required bandwidth.</li> </ul>
How to check whether the device's ActiveX is installed on your computer	Go to C:\Windows\Downloaded Program Files and check to see if there is an entry for the file " <b>IPCamera Control</b> ". The 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 displays the following message: "Your current security settings prohibit downloading ActiveX controls".	Set up the IE security settings or configure the individual settings to allow downloading and scripting of ActiveX controls.
The device work locally but not externally.	• Might be caused from the firewall protection. Check the 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.
	<ul> <li>Make sure that the device isn't conflicting with any other web server running on your LAN.</li> </ul>
	• 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 characters are displayed.	Use the operating system of the selected language. Set the Encoding or the Character Set of the selected language on the Internet Explorer.
Frame rate is slower than the setting.	• The traffic of the network and the object of the image affect 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 slow video	• Your connection to the device does not have enough bandwidth to



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when audio is enabled.	<ul> <li>support a higher frame rate for the streamed image size. Try reducing the video streaming size to 160x120 or 320x240 and/or disabling audio.</li> <li>Audio will consume more bandwidth. Disable audio to improve video. Your Internet connection may not have enough bandwidth to support streaming audio from the device.</li> </ul>
Image Transfer on e-mail or FTP does not work.	<ul> <li>Default Gateway and DNS server address should be set up correctly.</li> <li>If FTP does not work properly, ask your ISP or network administrator about the transferring mode of FTP server.</li> </ul>
Pan/Tilt does not work. (including Click to Center and Preset Positioning)	<ul> <li>Click "Refresh" on the Internet Explorer when the communication stops with the device. The image will refresh.</li> <li>Other clients may be operating Pan/Tilt.</li> <li>Pan/Tilt operation has reached the end of corner.</li> </ul>
Pan/Tilt does not work smoothly.	• There may be a slight delay when you are using the Pan/Tilt 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	
The focus on the Camera is bad.	The lens is dirty or dust is attached. Fingerprints, dust, stain, etc. on the lens can degrade the image quality.
The color of the image is poor or	Adjust White Balance.
strange.	• To ensure the images you are viewing are the best they can be, set the Display property setting (color quality) to 16 bit 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 it is the 50 or 60Hz format of your device.
	<ul> <li>If the object is dark, the image will flicker. Make the condition around the Camera brighter.</li> </ul>
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 White-light LED on.
Miscellaneous	
Cannot play the recorded ASF file	Please install Microsoft®'s DirectX 9.0 or later and uses the Windows Media Player 11.0 or later to play the AVI filed recorded by the device.