

30M Infrared Internet Camera ICA-350 User's Manual

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

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to 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 30M Infrared Internet Camera Model: ICA-350 (for F/W v 3.0 or above) Rev: 2.0 (May, 2008) Part No. EM-ICA350v2

Table of Content

1.	Introduction	5
	1.1 Overview	5
	1.2 Features	5
	1.3 Package Contents	6
2.	Basic Setup	7
	2.1 System Requirements	7
	2.2 Physical Details	8
	2.3 Hardware Installation	9
	2.4 Initial Utility Installation	9
	2.5 IP Wizard.	12
	2.6 Configure With IP Wizard	14
	2.7 UPnP Function	17
	2.7.1 Windows XP	17
	2.7.2 Windows Vista	21
	2.8 Setup ActiveX to use the ICA-350	23
	2.8.1 Internet Explorer 6 for Windows XP	23
	2 8 2 Internet Explorer 7 for Windows XP	24
	2 8 3 Internet Explorer 7 for Windows Vista	25
3	Web-based Management	26
0.	3.1 Introduction	26
	3.2 Connecting to ICA-350	26
	3.3 Live View	28
	3 / Active Y Control	20
	3.4 1 Digital Zoom	32
	3.4.2 Record	32
	3.4.3 Spanshot	32
	3.4.4 Voice *bardware version 2	33
	3.4.5 Statistics	34
	3.4.5 Statistics	24
	3.4.0 ADOUL	25
	3.5 INELWOIK	20
	3.5.1 INELWOIK	30
		30
		31
	3.5.4 Streaming	38
		39
		40
	3.5.7 IP Notification	41
	3.6 Camera	44
		44
	3.6.2 PTZ Setting	45
	3.6.3 Preset Setting	46
	3.6.4 Tour Setting	46
	3.7 System	48
	3.7.1 System	48
	3.7.2 Date & Time	49
	3.7.3 Maintenance	50
	3.8 Video	52
	3.8.1 Common	52
	3.8.2 MPEG4/VGA	53
	3.8.3 MPEG4/QVGA	54
	3.8.4 MPEG4/QQVGA	55
	3.8.5 VIDEO/JPEG	56
	3.9 Audio *hardware version 2	57
	3.10 User	58

3.11 E-Mail	. 59
3.12 Object Detection	. 60
3.13 Event Server	. 61
3.13.1 FTP Server	. 61
3.13.2 TCP Server	. 62
3.13.3 HTTP Server	. 63
3.14 Event Schedule	. 64
Appendix A: Reset Factory Default Settings	. 65
Appendix B: PING IP Address	. 67
Appendix C: Bandwidth and Video Size Estimation	. 68
Appendix D: DDNS Application	. 70

1. Introduction

The ICA-350 features zero-lux illumination. The 28 IR illuminator built around the lens brings the clearest vision at night. The ICA-350 offers color vision in day time and monochrome vision at complete darkness environment with built 1/3" color Sony CCD sensor up to 30 meters of distance and use new High-Light LED to provide great performance in the dark and longer LED life.

The ICA-350 is water-resistant construction with weatherproof solid housing. With the Aluminum rugged, all-weather waterproof enclosure maintains the reliable operation in any environment. The Build-in fan and heater prevent the machine overheated or sub cooling.

Multi-profile support stands for video stream simultaneously. The ICA-350 can generate MPEG-4 and M-JPEG streaming to different users in the meantime. Moreover, the resolution can also differ from one user to another. This state-of-art design is considerable to fit in various network environments. Up to 10 users can have access to the ICA-350 at any point in time simultaneously.

The ICA-350 is the perfect outdoor surveillance application for day and night. It can combine the PLANET Pan/Tilt internet camera and internet video server / digital video recorder products for various filed demands in surveillance network.

1.1 Overview

This user's manual explains how to operate the 30M Infrared Internet Camera from a computer. Basically, the user's manual is written to be read on the computer display. However, users might consider printing it out to access easily and read it before you operate the Network Camera.

1.2 Features

- AXIS compatible SDK
- High quality of 1/3" color SONY CCD image sensor in 30M distance
- Clear and high resolution quality pictures for day and night
- 3GPP for 3G mobile remote applications
- Multi-profile encoder supports MPEG-4 and M-JPEG video compression simultaneously and 30fps for all resolution
- Built-in fan and heater
- LED used on ICA-350 are 4 times brighter than ordinary IR LED
- Secure protection for current rejections
- Special mental base enhances lighting and dissipating heat
- Weatherproof protection of housing guard against the various weather
- Plug-N-Watch is able to simplify the system integration in existing network environment
- Because of supporting TCP/IP networking, SMTP e-mail and HTTP public network standards, ICA-350 can be applied and utilized to a mixed IP network environment
- Easy configuration: Network administrators can configure and manage ICA-350 via Windows-based utility or web browser
- DDNS, PPPoE and FTP uploading support provide more alternatives in surveillance network

- Motion Detection: the motion detection feature can monitor any suspicious movement in specific area
- Supports 2-Way Audio function with hardware version 2

1.3 Package Contents

User can find the following items in the package for ICA-350:

ICA-350 x 1 Power adapter x 2 Wall mount accessories x 1 Installation software and manual CD x 1

Quick Start Guide x 1

- **NOTE :** 1. If any of the above items are missing, please contact your dealer immediately.
 - 2. Using the power supply that is not the one included in ICA-350 packet will cause damage and void the warranty for this product.

2. Basic Setup

This chapter provides details of installing and configuring the ICA-350

2.1 System Requirements

Network Interface	10/100MBase-TX Ethernet
Monitoring System	Recommended for Internet Explorer 6.0 or later
Basic System Hardware	· CPU: Pentium 4, 3.0GHz or above
	Memory Size : 512 MB (512 MB or above Recommended)
	 VGA card resolution : 1024 x 768 or above
	· VGA card memory : 64 MB or above
	Sound card: Necessary
	 Network bandwidth: In VGA resolution mode, minimum upload bandwidth is 1Mbps.

NOTE: The listed information is minimum system requirements only. Actual requirement will vary depending on the nature of your environment.

2.2 Physical Details

Identification of ICA-350 cables



Video Output Connector (BNC port)

The ICA-350 also provides composite video output. User can use BNC video cable to connect the ICA-350 with a TV monitor or DVR.







Power Connector (for ICA-350)

The input power is 12VDC. It supply two adapters that one for heater and the other for camera.

NOTE: Supplies the power to the ICA-350 with the power adapter included in package.

RS-485 (Black: D- / Red: D+)

Connect to a Pan/Tilt scanner unit.

This connector is built inside the ICA-350 housing.

NOTE: The RS-485 of ICA-350 is master that can control external scanner.

RJ-45 LAN Connector

For connect a LAN cable to your Hub/Switch.

The LAN port is a RJ-45 connector for connections to 10Base-T Ethernet or 100Base-TX Fast Ethernet cabling. This Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use Category 5 "straight" cable to connect the ICA-350 to a 100Mbps Fast Ethernet network switch or hub.

NOTE: In case you need to connect the device to PC or notebook directly, you should use a cross-over cable instead.



Line in (audio in) *hardware version 2

Power Connector (for heater)

Connect to DC 12V power adapter.



Connect an audio input source to the ICA-350.



Line out (audio out) *hardware version 2

Connect a loud speaker to the ICA-350. This function is for voice alerting and two-way audio.

2.3 Hardware Installation

- 1. Fix ICA-350 to the location with wall mount fixture.
- 2. Plug-in Ethernet Cable into RJ-45 LAN port. Connect an Ethernet cable to the LAN port on the ICA-350 and connect the other side of the Ethernet cable to a hub/switch.
- 3. Connect the attached two power adapters to camera and plug-in this two adapters into power outlet.
- 4. Connect Video BNC connector to a local TV monitor or DVR if necessary.
- 5. Done.

2.4 Initial Utility Installation

This chapter shows how to quick set up your ICA-350. The ICA-350 is with the default settings. However to help you find the networked camera quickly the windows utility-IP Wizard can search the cameras in the network that shall help you to configure some basic setting before you started advanced management and monitoring.

- 1. Insert the bundled CD into the CD-ROM drive to launch the autorun program. Once completed, a welcome menu screen will appear.
- 2. Click the "IP Wizard" hyperlink; you will see the InstallShield Wizard dialog box as below.
 - **NOTE:** If the welcome screen does not appear, click "Start" at the taskbar. Then, select "Run" and type "D:\Utility\setup.exe", assume D is your CD-ROM drive.



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



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

🙀 IPWizar	d - InstallShield Wizard 🛛 🔀
Destinati Click Ne>	on Folder At to install to this folder, or click Change to install to a different folder.
	Install IPWizard to: C;\Program Files\IP Wizard\hange
InstallShield -	< <u>Back</u> Next > Cancel

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

🤀 IPWizard - InstallShield Wizard 🛛 🛛 🔀
Ready to Install the Program Image: Constall the Program The wizard is ready to begin installation. Image: Constallation the Program the Pr
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard. Current Settings:
Setup Type:
Destination Folder:
C:\Program Files\IP Wizard\
User Information:
Name: AmatsukaV2
Company:
InstallShield
< <u>B</u> ack Install Cancel

6. Please click "Finish" to complete the installation





7. Please double-click the utility icon utility.

on the desktop then you will see the ICA-350

2.5 IP Wizard

When you installed the ICA-350 on a LAN environment, you may execute IP Wizard to discover ICA-350's IP address and set up related parameters in the ICA-350.

Search Button:

When click Search button, a searching window will pop up. IP Wizard is starting to search ICA-350 on the LAN. The message "No Network Devices Is Found" will appear on this window if IP Wizard cannot find any camera on the LAN. Otherwise, existed cameras will be listed. If total quantity is over, please move the cursor to Information Box. Click on the left button of the mouse and the Information Box of the Listing Window will roll upward automatically; on the contrary, move the cursor to the Information Box on the top of Listing Window and click on the left button of the mouse and Listing Window will roll downward.

Search	Device Title	IP Address	Port	MAC Address
Wizard	IP Wiz	ard		
About		Search	ing	
Exit				4

Wizard Button:

When IP Wizard finds your camera, **Wizard** button will become available. Please select the device you would like to configure in the Information Box. The device will turn into yellow which means this device is selected; please press "**Wizard**" button. Or you could double click the mouse left key on the selected camera. Relative settings will be carried out. Details of Install Wizard will be specified as Section 2.6.

Wizard				
Search	Device Title	IP Address	Port	MAC Address
	ICA-350	192.168.0.20	80	00-30-4F-A0-00-06
Wizard				
About				
Exit				
	-			

About Button:

When click "About" button, you will see the version information of IP Wizard shown in the pop-up dialog box.

😚 IP Wizard				
Search	Device Title	IP Address	Port	MAC Address
Wizard	About IP Wizard	192.168.0.20		10-30-41- AU-00-06
About	IPWizar	d Ver 2.0.1.:	2	
Exit		OK		

Exit Button:

Click "Exit" button will close the IP Wizard Program.

2.6 Configure With IP Wizard

After pressing Installation Wizard, please key in Username and Password of the device when login dialog box appears on the screen. You can login the setup page if authorized name and password is correct. Default **username/password** for machine login: **admin**/<no password>

Login	
Administrater:	
Password:	
x-	Submit Cancel

Wizard Page 1: Username and Password

This page is about the change of the authorized user name and password of the selected device. If you don't want to change them, please click "Next" to move to the next page. Press "Exit" button if you don't want to set up right now. If you want to change authorized name or password, you have to check the box in front of **ID** or **New Password**. Authorized Username should contain at least 5~ 20 characters and New Password should contain at least 4~8 characters.

P Wizard	
Next	D D
Exit	New Password
	Password:
	Page: 1/1

Wizard Page 2: LAN Setting

This page is about the select of Static IP or DHCP ON.

	🕸 IP Wi	zard						
	Pre E	-View	LAN: S IP Address: Subnet Mask: Def. Gateway: DNS1: DNS2:	tatic IP 192.168.0 255.255.2 192.168.0 0.0.0.0	DHCP IP			
						Page	: 1/1	
LAN		You can assign. If " DHCP (have DH IP " and fi	configure this ICA- i there is a DHCP DN ", ICA-350 can CP server or you ill in the following fi	350 to obta server in ye automatic want to use ields with p	ain its addres our network ally obtain a fixed IP ad proper param	ss automatio environmen an IP addre dress, pleas eters.	cally or manu at and you se ess. If you d se select " St a	ally lect on't atic
IP Addre	ess	IP addre These n example:	ss is a unique nun umbers are usua : 192.168.0.200	nber for ide Illy shown	entifies this o in groups	device on th separated	ne WAN or L by periods,	AN. for
Subnet I	Mask	Subnets network's subnets organizin usually a common 1111111 readable	allow network trais s configuration. In advance network ing hosts into logic appear in the sar subnet mask in 1 0000000 will form as 255.255.2	ffic betwee IP network security al groups. me "dottec its binar usually be 255.0.	en hosts to b ing, traffic ta and perfor Subnet ma decimal" o y demonstra e shown in	be separate likes the form mance to sks contain data. For e ation 1111 the corres	ed based on m of packets some level four bytes example, a v 1111 11111 sponding, m	the . IP by and rery 111 tore
Def. Gat	eway	A gatewa networks site or wh	ay is a piece of soft . You'll see this ten nen you're transien	ware or ha rm most of nt email bet	rdware that ten when yo ween differe	basses infor u either log nt servers.	rmation betwo in to an Inter	een met
DNS1		When yo xxxxx.co The term the name	bu send email or p m, the domain nan n refers to two thin es are control acros	position a l ne system gs: the cor ss the Inter	browser to a translates th oventions for met.	n Internet e names in naming ho	domain such to IP address sts and the v	as ses. way
DNS2		The sam	e function as DNS	1. It is option	onal, not nec	essary		
Note: If	no IP ad	dress is a	assigned after 30 s	seconds, tl	he ICA-350	will work w	ith its defaul	t IP

address **192.168.0.20**. User may now open your web browser, and key in <u>http://192.168.0.20</u> in the address bar of your web browser to logon ICA-350's web configuration page.

Wizard Page 3: Confirmation

This page shows the new configurations. If it is correct, please press "Submit" icon and the setting information will be save to your ICA-350. Click on "Exit" to close this window.

P Wizard				
Pre-View	Please mak	e sure all para	ameters bef	ore submit.
	Password:	aumn	SSID:	Disable
Deftert	IP Address:	192.168.0.20	Channel:	1
Restart	Subnet:	255.255.255.0	Key1:	*
	Def. Gateway:	192.168.0.1	Key2:	* *
	DNS1:	0.0.0	Key3:	*
Exit	DNS2:	0.0.0	Key4:	4 2

2.7 UPnP Function

NOTE: Windows 2000 does not support UPnP feature.

2.7.1 Windows XP

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 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

F Control Panel								
Ele Edit Yew Favorites Iools	Help							1
(G tack + (D) + (D) 🔎 🔎 S	sarch 😥 Fold	lers 🛄-						
Agdress 🕞 Control Panel							~	🔁 Go
Control Panel	Č,	Add Hards re	Add or	A	Date and Time	Display	Folder Options	
Switch to Category View	Options		Remove	Tools				
See Also	1	P		١	3	٢	2	
S Windows Update	Fonts	Game Controllers	Internet Options	Keyboard	Mouse	Network Connections	Phone and Modern	
Help and Support	-		٠	3	3	O,	2	
	Power Options	Printers and Faxes	Regional and Language	Scanners and Cameras	Scheduled Tasks	Sounds and Audio Devices	Speech	
	S		83					
	System	Taskbar and Start Menu	User Accounts					

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

扇	Currently installed programs:	Sort by: Name	_	-
Change or	DameWare NT Utilities	Ste	15,7210	P
Programs	Cick.here for support information.	Used	occasionally	
	To change this program or remove it from your computer, click Change or Remove.	Last Used On Change	Remove	
Artici News	Internet Explorer Q828750			1
and one	IP surveillance	Size	3.30MB	
B	Outlook Express Update Q330994			
Add/Remove	Windows Media Player Hotfix [See wm820026 for more information]	Sibe	0.13MB	
Windows	Windows XP Hotfix - X8821557			
Components	🛃 Windows 1/P HotFix - K8823182			
	Windows XP Hot/tx - KB823559			
Set Program	Windows XP Hotftx - K8824105			ł
Access and	Windows XP Hotfix - KB024141			
Densions	Windows XP HotFix - KB024146			
	19 Windows XP Hotfix - K8825119			
	19 Windows XP Hotfix - K8828035			
	Windows XP Hotfix (SP2) [See Q329048 for more information]			
	Windows XP Hotrix (SP2) [See Q329115 for more information]			
	Windows XP Hotfix (SP2) [See Q329390 for more information]			

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

Windows Components Wizard			
Windows Components You can add or remove compo	onents of Windows XF	5	B
To add or remove a componer part of the component will be in Details. Components:	nt, click the checkbox hstalled. To see what	. A shaded box means that or 's included in a component, cli	ıly ck
🗌 🜌 Message Queuing		0.0 MB	~
MSN Explorer		13.2 MB	
🗷 🚔 Networking Services		0.3 MB	
🔲 🚔 Other Network File and	d Print Services	0.0 MB	
Call Callook Express		0.0 MB	~
Description: Contains a variet	y of specialized, netwo	ork-related services and protoc	ols.
	E4 7 MD		
Total disk space required: Space available on disk:	94.7 MB 1926 8 MB	<u>D</u> etails.	
	1020.0 MB		
	< <u>B</u>	ack <u>N</u> ext >	Cancel

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



Please click Next to continue

indows Components Wizard	J.		D
Windows Components You can add or remove comp	onents of Windows XP.		Ē
To add or remove a compone part of the component will be i Details.	nt, click the checkbox. A installed. To see what's in	shaded box means that on cluded in a component, cli	ly ck
Components:			
Message Queuing		0.0 MB	<u>^</u>
MSN Explorer		13.2 MB	
Networking Services		0.3 MB	
🗆 불 Other Network File an	d Print Services	0.0 MB	1000
California Cutlook Express		0.0 MB	~
Description: Contains a varie Total disk space required: Space available on disk:	ty of specialized, network- 54.7 MB 1926.8 MB	related services and protoc	ols.
	< <u>B</u> ack		Cancel

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

dows Components Wizard		
Configuring Components Setup is making the configuration cha	anges you requested.	t
Please wait while Setup co several minutes, depending	nfigures the components. This may take y on the components selected.	
Status: Completing configuration of In	nternet Information Services (IIS)	
	Rock Novt	

Please click **Finish** to complete the UPnP installation

Windows Components Wiz	car d	
	Completing the Windows Components Wizard You have successfully completed the Windows Components Wizard.	
A Y	To close this wizard, click Finish.	
	K Back Finish	

Double-click **My Network Places** on the desktop, the "My Network Places" will display on the screen and double-click the UPnP icon with ICA-350 to view your device in an internet browser.

De [3t gee Fgrontes]ook geb Constant Constant States Meteorit Tasks Verwark Tasks Verwark Jakes Verwark Jakes Verwarkgroup computers Verwarkgroup computers	
Insc Image: Comparison of the second secon	¥ 🗗 o
Steese Image: Steese steese Image: Steese steesese steese steese steese steese steese steese steese stees	<mark>. 8</mark> . α
Network Tasks Image: Computer State Add a network place Image: Computer State Weev network connection Image: Computer State Weev network connection Image: Computer State	
Add a network place Veew natwork connections to a hove or shall there ends	
Verwindswork connections Step a have or small office retrieval: Verwindskiewerkgroup computers	
Al New workproup computers Section 1.1	
A Yow workproze computers	
Other Places (2)	
Desktop	
P My Computer	
Documents	
Car Shared Documents	
W HYPORYS and Harves	
Details	

2.7.2 Windows Vista

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 device. If the operating system, Windows Vista, 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 Vista.

Go to Start > Control Panel > Network and Internet > Network and Sharing Center, and turn on Network Discovery.

Tasks	Network and Sharing C	enter	
Connect to a network Set up a connection or network Manage network connections Diagnose and repair	10FLABBBB2-F (This compute	2C Unidentified network	View full may
	💐 Unidentified network (P	ublic network)	Customize
	Access	Local only	
	Connection	Local Area Connection	View statu:
	Makes als all an and a	0.00	• • • • • • • • • • • • • • • • • • •
	Network discovery	0.01	9
	File sharing	e off	
	File sharing Public folder sharing	© Off	
	File sharing Public folder sharing Printer sharing	Off Off Off Off (no printers installed)	
	Public folder sharing Printer sharing Printer sharing Password protected sharing	Off Off Off Off (no printers installed) On	8 8 8

Double-click **My Network Places** on the desktop, the "My Network Places" will display on the screen and double-click the UPnP icon with ICA-350 to view your device in an internet browser.



2.8 Setup ActiveX to use the ICA-350

The ICA-350 web pages communicate with the ICA-350 using an ActiveX control. The ActiveX control must be downloaded from the ICA-350 and installed on your PC. Your Internet Explorer security settings must allow for the web page to work correctly. To use the ICA-350, user must setup his IE browser as follows:

2.8.1 Internet Explorer 6 for Windows XP

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

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



By now, you have finished your entire PC configuration for ICA-350.

2.8.2 Internet Explorer 7 for Windows XP

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

Set the first 3 items

- Allow previously unused ActiveX control to run...
- Allows Script lets
- Automatic prompting for ActiveX controls

Security Settings - Internet Zone	×
Settings	
ActiveX controls and plug-ins Allow previously unused ActiveX controls to run without prom Disable Enable Allow Scriptlets Disable Enable Prompt Automatic prompting for ActiveX controls Disable En	
*Takes effect after you restart Internet Explorer	
Reset custom settings	
Reset to: Medium-high (default)	
OK Cancel	

By now, you have finished your entire PC configuration for ICA-350.

2.8.3 Internet Explorer 7 for Windows Vista

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

- 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 Disable	
Reset ustom settings <u>Beset to:</u> <u>Medium-High (default)</u> <u>Reset</u> OK <u>Cancel</u>	Reset custom settings Reset to: Medium-high (default) Reset OK Cancel

From your IE browse \rightarrow "Tools" \rightarrow "Internet Options..." \rightarrow "Security" \rightarrow "Trusted Sites" \rightarrow "Custom Level...", please setup your "Settings" as follow.

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

Settings ActiveX controls and plug-ins Allow previously unused ActiveX controls to run without prof Disable Enable Enable Administrator appropting for ActiveX controls Disable Disable Disable Disable Enable Disable Disable Toles and seimation on a undmans that doer not use Troles affect after usu extent Internet Evoluter Troles affect after usu extent Internet Evoluter	Vertings Vertin
Reset custom settings	Reset custom settings
Reset to: Medium (default)	Reset to: Medium (default) Reset OK Cancel

By now, you have finished your entire PC configuration for ICA-350.

3. Web-based Management

This chapter provides setup details of the ICA-350's Web-based Interface.

3.1 Introduction

The ICA-350 can be configured with your Web Browser. Before configure, please make sure your PC is under the same IP segment with ICA-350.

3.2 Connecting to ICA-350

- Use the following procedure to establish a connection from your PC to the ICA-350.
- Once connected, you can add the ICA-350 to your Browser's Favorites or Bookmarks.

Start the web browser on the computer and type the IP address of the ICA-350. The Default IP: <u>http://192.168.0.20</u> "



The login window of ICA-350 will appear, Default login username/password is :

admin/ <no password>



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

Web browser may display the "Security Warming" window, select "Yes" to install and run the ActiveX control into your PC.



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



NOTE: If you log in the ICA-350 as an ordinary user, setting function will be not available. If you log in the ICA-350 as the administrator, you can perform all the settings provided within the device.

3.3 Live View

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



Monitor Image Section	The image shot by the ICA-350 is shown here. The date and time are displayed at the top of the window.
Video Profile	The ICA-350 support multi-profile for both MEPG-4 and M-JPEG simultaneously. User can chose the proper and/or preferred profile here.
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.
2-Way Audio *hardware version 2	The ICA-350 supports 2-way audio function. User can chose to enable or disable this function by toggling the icon below : Disable audio uploading function. : Enable audio uploading function.
De-Interlace	The device also supports de-interlace function inside ActiveX. User can chose to enable or disable this function by toggling the icon

Setting Menu	below. : Disable de-interlace function. : Enable de-interlace function. This function is detail setting for ICA-350 that only available for upor				
	logged into ICA-350 as administrator.				
	ltem	Action			
	Network	Configure Network settings such as DHCP, DDNS, 3GPP, PPPoE and UPnP			
	Camera	Adjust camera parameters			
	System	Configure system information, date & time, maintenance, and view system log file.			
	Video	Configure bit rate and frame rate of video profiles			
	Audio	Configure audio parameters *hardware version 2			
	User	Setup user name, password and login privilege			
	E-Mail	Setup E-Mail configuration			
	Object Detection	Setup Object detection			
	Event Server	This device is a client site and configure information to upload images to server			
	Event Schedule	Configure the schedule while event triggered			
Streaming Protocol	User can select proper streaming protocol according to networking environment.				
Language	The device could provide multiple languages to meet customer's requirement.				
Video Information	Display video information including video format, resolution, frame rate and bit rate.				



Auto Pan Execute the auto pan of camera. While auto pan is running, the camera will swing the camera automatically. Note that the speed of auto pan is fixed and cannot be adjustable.

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.

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

- "Digital Zoom",
- "Record",
- "Snapshot",
- "Voice" *hardware version 2,
- "Statistics",
- "About"



3.4.1 Digital Zoom

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



3.4.2 Record

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

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

The ASF files can be display by the standard Windows Media Player, but it needs the DixectX 9.0 or later version to be installed.



NOTE: Default save path is "C:\Documents and Settings\All user\Desktop

3.4.3 Snapshot

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

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



NOTE: Default save path is "C:\Documents and Settings\All user\Desktop

3.4.4 Voice *hardware version 2

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



3.4.5 Statistics

Click **Statistics** to activate this function. A window will be popup to show the statistics information of the streaming status. **Note** that this information is the statistics between the device and your local PC.

Statistics Inform	ation (×
-Video		7
Format:	MP4V	
Resolution:	640×480	
Disp V-FPS:	28.854	
Data-rate:	256.39 Kbps	
Audio		-
Format:	G.726	
Bit-rate:	32000 bps	
Network		
Pkts recv:	13512	
Time		
Elapsed:	OD 00:03:06	
L		

3.4.6 About

Click About to show the ActiveX information



3.5 Network

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.

Ne	twork DDNS	PPPoE	Streaming	UPNP	IP Filter	IP Notification		
	MAC Address	00:3	0:4F:A0:00:A3					
	🗹 Obtain IP add	dress automati	cally (DHCP)					
	IP Address	192	.168.0.20	Test	J			
	Subnet Mask	255	.255.255.0					
	Gateway	192	.168.0.254					
	🗹 Obtain DNS f	rom DHCP						
	Primary DNS							
	Secondary DNS							
	HTTP Port	80		(1~6	5535)			
						<i></i>		
MAC Addr	ess	Change it	he Ethern	et MAC	addres	is of the device	e. Note that	user can
Ohtoin on	חו		Chanda fa			at Configuratio	Droto ool	Enchle (

Obtain an IP address automatically (DHCP)	DHCP: Stands for Dynamic Host Configuration Protocol. 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, 192.168.0.20, by itself as the default IP address.
IP address, Subnet mask, Gateway, 1st DNS, 2nd DNS server	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 numbers 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
11111111 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.
- **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 control across the Internet.
- **Secondary DNS** The same function as DNS1. It is option not necessary

Note: need to reboot the device to take this setting effect.

HTTP Port 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 back of IP address. For example: <u>http://192.168.0.20:80</u>.

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

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

3.5.2 DDNS server

DDNS: 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 easy remember names, which are organized into the domain name. As to xDSL environment, most of the users will use dynamic IP addresses. If users want to set up a web or a FTP server, then the Dynamic Domain Name Server is necessary. For more DDNS configuration, please consult your dealer.

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

IP address problem comes in the form of a dynamic DNS service.

The Internet uses DNS servers to lookup domain names and translates them into IP addresses. Domain names are just easy to remember aliases for IP addresses. A dynamic DNS service is unique because it provides a means of updating your IP address so that your 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 D for more information.

	Network	DDNS	PPPoE	Streaming	UPNP	IP Filter	IP Notification	
	DDNS Server DDNS H User Na Passwo	Name lost ame ord	O D	isable • Enable ans.org •	e (1 ~ 3 (< 21	(O Digits) Digits) Digits)		
DDNS	6	To	enable c	or disable t	he DDI	NS servic	e here.	
Serve	er Name	Cho	oose the	built-in Dl	DNS se	erver.		
DDNS	6 Host	The	e domair	n name is a	applied	of this de	evice.	
User	Name	The	e user na	ame is use	ed to log	g into DD	NS.	
Pass	word	The	passw	ord is used	d to log	into DDN	IS.	

3.5.3 PPPoE

PPPoE: Stands for Point to Point Protocol over Ethernet

A standard builds on Ethernet and Point-to-Point network protocol. It allows ICA-350 connect to Internet with xDSL or cable connection; it can dial up your ISP and get a dynamic IP address. For more PPPoE and Internet configuration, please consult your ISP.

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

The procedures are

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

	Network	DDNS	PPPoE	Streaming	UPNP	IP Filter	IP Notification		
	PPPoE		•	Disable 🔍 Enabl	le				
	User Na	ame			(< 21	l Digits)			
	Passw	ord			(< 21	l Digits)			
	IP Addr	ess							
	Subnet	Mask							
	Gatewa	Ŋ							
	Status		Disc	onnect					
PPPo	E		То	enable or	disable	e the PPF	PoE service h	ere.	

User Name	Type the user name for the PPPoE service which is provided by ISP.
Password	Type the password for the PPPoE service which is provided by ISP.
IP Address, Subnet Mask, and Gateway	Shows the IP information got from PPPoE server site.
Status	Shows the Status of PPPoE connection.

3.5.4 Streaming

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

	Netv	work	DDNS	PPPoE	Streaming	UPNP	IP Filter	IP Notific	ation				
	l	RTSP P	ort	554		(554	~ 65535)						
	ļ	RTP Poi	t	500	00	~ 50	999	(1	024 ~ 65	535)			
рта		.4	Chaor	a tha D		The D		toool oll			ating ali	ont to o	tort
RI	SP Por	τ	video	stream.	Enter the	RTSP p	port num	ber to us	se. Th	e defau	ilt value	ent to s e is 554.	an a
RTF	P Port		Specit	fy the ra	nge of trar	smissi can sp	on port n ecify a n	umber o umber b	f vide	o strear en 1024	n. The	default	range
			10 000	00.000		ouri op	oony a n		0.110				
To i con	use the figurat	e 3G ion to	PP fun o make	this fun	addition t ction work	o previ	ous sect	tion, you	ı migl	nt need	more i	nformati	ion o
NO	TE: 1	To us a pub	se the 3	GPP fu fixed IF	nction, it st address v	rongly	recommon any firev	ends ins vall prote	talling	the Ne	tworke	d Device	e with

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.

3.5.5 UPnP

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 Network 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.

etwork	DDNS	PPPoE	Streaming	UPNP	IP Filter	IP Notification		
UPNP		• D	isable 💿 Enable	e				
Friendly Name		10.4.3	50 00304EA000	-				
		ICAJ.	1CA330 - 00304FA000A3					
UDD M	T T							
Dert Deptio		• • D	isable 🔍 Enable					
Port Rar	nge	3276	58	~ 655	35	(1 ~ 65535)		
External IP Address						eaderth/)		
					(t	eadoniy)		

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

3.5.6 IP Filter

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

	Network	DDNS	PPPoE	Streaming	UPNP	IP Filter	IP Notification		
	IP Filter IP Filter	Policy	● D ● D Sav	isable • Enable eny • Allow • Filter IP	Filter IP Li:	st lelete All			
IP Filte	ər	-	To enab	le or disab	ole the	IP filter fu	unction here.		
IP Filte	er Policy	/	Choose	the filter p	olicy w	here is d	enying or allo	owing.	

3.5.7 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.



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.

3.6 Camera

Use this menu to set the function of the camera of ICA-350

3.6.1 Picture

Picture PTZ Settin	ng Preset Setting To	our Setting	
Brightness	50	(0 ~ 100)	7
Sharpness	50	(0 ~ 100) (0 ~ 100)	
Contrast	50		
Local video output	● Disable ● Enable		
ightness	Large value will b	orighten ca	imera.
narpness	Large value will s	harpen ca	imera.
ontrast	Large value will c	contrast ca	mera heavily.
		: . T) /	

Local Video Output Check this item if a TV or video monitor has been connected to video output of the Network Camera. Un-check it if not any device has been connected. Otherwise, the image will be too brightness

3.6.2 PTZ Setting

	Picture	PTZ Setting	Preset Setting	Tour Setting				
	Camer Camer Baud r	ra Protocol ra Address rate	Pelco-D V 1 9600 V					
PTZ I	Protocol	Type T	he Network (levice thru RS	Camera is c 3485 bus.	onnected to	built-in ICA-3	350 and cont	trols this
Baud	I Rate	L L L	This is the con Note that plea ourpose. If so,	nmunication se DO NOT user needs	speed betwe changes th to check and	een network r e default valu l set value pr	module and I ue except or operly for bo	CA-350. special th sides
Came	era ID	T N r	This is the car NOT changes needs to chect	mera ID set the default k and set va	in speed do value excep lue properly	me camera. It on special for both sides	Note that ple purpose. If	ease DO so, user

3.6.3 Preset Setting

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

Picture	PTZ Setting	Preset Setting	Tour Setting	
Pre	set Number Pre	set Name		Preset List
			Preset Numbe	
			Preset Name	
				Modify Delete
Ľ				

3.6.4 Tour Setting

Up to 64 positions can be preset, and the camera can be programming to move to the preset position sequentially.

Tour Number	r Tour Name	Running	Sequence	Preset Name	Wait	lime	
Tour Name			Preset	*			
Running	Enable Oisable		Wait Time	10		Seconds	
	Add Modify Delete	ļ		Add Modify	Delete		

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.

To use the camera tour function, user must preset some camera positions first. The maximum number of preset points is 64.

3.7 System

Use this menu to perform the principal settings of ICA-350.

3.7.1 System

	System	Date & Tim	ie Maintenance	
	Device	e Title	ICA-350	(0 ~ 30 Digits)
	Softw	are Version	3.0.2.2033	
	Log		Reload	
	Nov	8 20:15:03	3 ICA-350 syslog.:	info syslogd started: BusyBox v1.01 (2008.05.09-08:44
	Nov	8 20:15:03	3 ICA-350 user.not	ice kernel: klogd started: BusyBox v1.01 (2008.05.09
	Nov	8 20:15:03	3 ICA-350 user.em	erg kernel: Linux version 2.4.19-pl1029 (richard@loca
	Nov	8 20:15:03	3 ICA-350 user.em	erg kernel: CPU: Faraday FA526id(wb) revision 1
	Nov	8 20:15:03	3 ICA-350 user.em	erg kernel: ICache:16KB enabled, DCache:16KB enabled,
	Nov	8 20:15:03	3 ICA-350 user.em	erg kernel: Machine: Prolific ARM9v4 - PL1029
	Nov	8 20:15:03) ICA-350 user.em	erg Kernel: Prollic arm arch version 1.0.12
	Nov	8 20.15.03	3 ICA-350 user.emm 3 ICA-350 user emm	erg kernel: zone(0): 8192 mages
	Nov	8 20:15:03	3 ICA-350 user.em	erg kernel: zone(1): O pages.
	Nov	8 20:15:03	3 ICA-350 user.em	erg kernel: zone(2): O pages.
	Nov	8 20:15:03	8 ICA-350 user.em	erg kernel: Kernel command line: root=/dev/norblock/c
	Nov	8 20:15:03	3 ICA-350 user.de	oug kernel: Relocating machine vectors to Oxffff0000 🥃
	<	0 00 15 00		
Dovic	o Titlo	~	ou can enter	the name of this unit here. It's very useful to identify the
Devic	enne	I		
		S	pecific device f	rom multiple units.
Softw	aro Vor	sion T	his information	shows the software version in the device
SOILW		31011 1		

Log User can check the system log information of the device, including the Main Info, Appended Info, Operator IP, and so on ...

3.7.2 Date & Time

You can setup the time setting of ICA-350, make it synchronized with PC or remote NTP server. Also, you may select the correct time zone of your country.

Server	Date & Time	2007-8-20 00:00:00
PC Tim	е	2008-3-12 14:39:38
Adjust		Synchronize with PC
		Manual setting : Date : 2007-8-20 Time : 00:00:00
		• Synchronize with NTP
NTP Se	rver	time.stdtime.gov.tw Test
NTP Sy	nc. Interval	24 hour 🔽
Timezo	ne	GAT (Dublin, Lisbon, London, Reykjavik) 🔽
Dayligh	t Saving	● Disable ● Enable
Dayligh	t Saving StartTime	Jan 😪 1 🔽 00:00:00
Dayligh	t Saving StopTime	Jan 😪 1 👻 00:00:00
Dayligh	t 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			
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)			
	Synchronize with PC:	Click this option to enable time synchronization with PC time			
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	Sets up the date and time of daylight saving start time.				

Daylight Saving Stop Time	Sets up the date and time of daylight saving stop time.
Daylight Saving	Sets up the date of daylight saving offset.
Offset	

3.7.3 Maintenance

System	Date & Time	Maintenance	
Hard F	actory Default (Inclu	ide the network setting)	Hard Factory Default
Factor	y Default (Except th	e network setting)	Factory Default
Backu	ıp Setting	Backup Setting	
Resto	re Setting		Browse Restore Setting Reset
Firmw	are Upgrade		Browse Firmware Upgrade Reset
Syster	m Restart	Restart	

Hard Factory Default (Include the network setting)	Recall the device hard factory default settings. Note that click this button will reset all device's parameters to the factory settings (including the IP address).
Factory Default (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. (Note that it must make sure that the Firmware only applies to this device, once update, it will be burned into FLASH ROM of system.)
- 6. Once the firmware file was selected, select "Upgrade".
- 7. The upgrade progress information will be displayed on the screen.
- 8. A message will be shown while the firmware upgraded. Once the upgrading process completed, the device will reboot the system automatically.
- 9. Please wait for 80 seconds, and then you can use IP Wizard to search the device again.

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

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

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

System Restart

The device is restarted without changing any of the settings.

3.8 Video

This device provides more video profiles as below to support different request to each client simultaneously. Each user can choose his preferred video profile as his request independently.

3.8.1 Common

Common	MPEG4/VGA	MPEG4/QVGA	MPEG4/QQVGA	VIDE0/JPEG		
Text Ov	erlay Setting	Include Date				
		Include Time				
		Include Text		(0 ~ 20 Digits)		
		Include Fext		(0 20 Digits)		
t Overlav	Settina 7	here are sor	ne important	information	can be embed	ded into ima

including date, time, and/or text.

3.8.2 MPEG4/VGA

	Common	MPEG4/VGA	MPEG4/QVGA	MPEG4/QQVGA	VIDEO/JPEG			
	Video Typ Resolutio Rate Conf Max Fran	n 6 Irol	IPEG4 40 x 480 ● Quality 90 ● Bitrate 2048 30 ♥	(1~ К bj	100) is (384 ~ 4096)			
Video	Туре	lt's	MPEG4 mod	le in this profi	е			
Reso	lution	lťs	VGA mode (640x480) in th	nis profile			
Bit ra	te Contro	I Def Cor bit rate the leve	ines the rate nstant Bit Ra rate is betwe to match th quality level el is between	e control met te (CBR) or V een 384kbps a le limitation o to set the vio 1 and 100. T	hod of this and 4096kbp f bandwidth deo quality he higher va	profile. The late (VBR). os. User car For VBR, u rather than h lue is the be	re are two o For CBR, the set the des user should o bit rate. The etter quality.	ptions: video ired bit choose quality
Max F			inco the torg	atad frama ra	to of this pro	file. For eve	male act the	fromo

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.

3.8.3 MPEG4/QVGA

Common	MPEG4/VGA	MPEG4/QVGA	MPEG4/QQVGA	VIDE0/JPEG
Video Ty	pe	MPEG4		
Resoluti	on	320 x 240		
Rate Cor	itrol	Quality 80	(1 ~	100)
		Bitrate 512	К bp	os (128 ~ 1024)
Max Frai	ne Rate	30 🛩		
Type	lt'e l	MPEG4 mode	in this profile	

Video Type	It's MPEG4 mode in this profile.
Resolution	It's QVGA mode (320x240) in this profile.
Bit rate Control	Defines the rate control method of this profile. There are two options: Constant Bit Rate (CBR) or Variable Bit Rate (VBR). For CBR, the video bit rate is between 128kbps and 1024kbps. 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 is the better quality.
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

3.8.4 MPEG4/QQVGA

	Common	MPEG4/VGA	MPEG4/QVGA	MPEG4/QQVGA	VIDE0/JPEG	
	Video Ty	ре	MPEG4			
	Resolutio	on	160 x 120			
	Rate Cor	itrol	Quality 80	(1 ~	100)	
			Bitrate 128	К bp	s (24 ~ 320)	
	Max Frai	ne Rate	30 🛩			
						į
Video	Video Type		s MPEG4 mo	de in this profil	e.	
						1

Resolution It's QQVGA	mode (160x120) in this profile.
------------------------------	---------------------------------

|--|

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.

3.8.5 VIDEO/JPEG

	Common	MPEG4/VGA	MPEG4/QVGA	MPEG4/QQVGA	VIDEO/JPEG		
	Video Ty Resoluti Rate Cor Max Fran	pe on itrol me Rate	JPEG 320x240 V Quality 90 30 V	(1 ~ 100)		
Vide	о Туре	It's JI	PEG mode in	this profile.			
Resolution L		User JPEC	can select V S profile.	GA, QVGA, d	or QQVGA	mode as the re	esolution of this
Rate Control		The	quality level is	between 1 and	d 100. The ł	nigher value is t	he better quality.
Max Frame Rate		nte Defin rate t can s band	es the targete o 15 fps, then set the desire width.	ed frame rate the image will d max frame	of this profi be updated rate versus	le. For example for 15 frames p video quality u	e, set the frame per second. User inder the limited

3.9 Au	Idio *hardw ting	vare version 2	
	Audio Audio Mode Input Gain Output Gain	 Disable ● Enable Simplex ● Full duplex 0 ♥ 0 ♥ 	
Audio	To enat	ble or disable audio function	
Audio Mo	ode To sele	ct Simplex or Full duplex (2-way audio) mode	
Input Gai	n To adju	ist gain of input audio	
Output G	ain To adju	ist gain of output audio	

3.10 User

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

Setting						
Viewer Login	● Anonymous ● O	onymous 🌑 Only users in database Save				
User Name	Access Right administrator	User List		٦		
admin		User Name	(1 ~ 20 Digits)			
		Password	(0 ~ 12 Digits)			
		Verify Password	(0 ~ 12 Digits)			
		Access Right	Administrator O Viewer			
			Add Modify Delete			
				_		
Viewer Login	Anonym	nous Cho	oose this to enable anonyr	nous user login.		
	Only u in datab	users Cho base	oose this to disable anony	mous user login.		
User Name	Enter the	Enter the user's new account here which you want.				
Password	Enter the	Enter the user's new password here.				
Verify Password	Please e	Please enter the user's new password here again to confirm.				
Access Right	Administ Viewers	Administrator can access every function in this device. However Viewers only can view the video and access limited function.				
Add, Update, and Remove	Manage	Manage the user's account of viewer user.				

3.11 E-Mail

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



3.12 Object Detection

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



easier to trigger event.

Sensitivity

Defines the sensitivity value of motion detection. The higher value will be more sensitivity.

3.13 Event Server

Setup FTP/TCP/HTTP server configuration

3.13.1 FTP Server

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

FIP Server	TCP Server HTTP Server	ver					
Name	FTP Server	FTP Port	FTP Path				
Name			(<21 Digits)				
FTP Server			Test				
FTP Login Name			(<21 Digits)				
FTP Login Passwor	d		(<21 Digits)				
FTP Port	FTP Port		(1 ~ 65535)				
FTP Path			(<64 Digits)				
FTP Passive Mode		Disable O Enable					
me	l Iser can	specify multiple F	TP naths as wish The	prefore user need			
	to specify	a name for each	FTP setting.				
P Server							
	Type the	server name or the	e IP address of the FTF	server.			
st	Check the	e FTP server whet	her this account is avai	lable or not.			
P Login Name							
	Type the	user name for the	FTP server.				
P Login Passw	vord Type the	naceword for the	TD convor				
	Type the						
P Port	Set port n	number of FTP ser	vice.				
P Path	Sotworki	ng directory noth	of ETD convor				
	Set WORKI	ng unectory path of	DIFTE Server.				
P Passive Mod	le Selectina	ssive or active mo	de connecting to FTP a	onvor			

3.13.2 TCP Server

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

FTP Server	TCP Server	HTTP Server			
Name	TC	D Corner	TCD Dout		
Name		r 361961	(<21 Digits)		
TCP Server			lest		
me	User can specify a n	specify mul name for eac	ltiple TCP servers as w ch TCP server setting.	ish. Therefore,	user needs to
P Server	Type the s	erver name	or the IP address of the T	CP server.	
P Port	Set port nu	umber of TC	P server.		

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

	FTP Server TC	P Server	HTTP Server				
	Name	HT	IP Server	Proxy Address			
	Name		(<2	21 Digits)			
	URL	http://		(<60 Digits) Test			
	HTTP Login Name		(<2	21 Digits)			
	HTTP Login Password		(<2	21 Digits)			
	Proxy Address			24 Divito)			
	Proxy Login Password		(<	21 Digits)			
	Proxy Port		(1	~ 65535)			
		<u>, </u>					
Nam	e	U	lser can sp eeds to spe	pecify multiple HTTP servers as wish. The ecify a name for each HTTP server setting.	refore, user		
JRL		Т	ype the serv	ver name or the IP address of the HTTP serv	'er.		
Fest		С	Check the HTTP server whether it is available or not.				
ITT	P Login Name	Т	ype the use	er name for the HTTP server.			
ITT	TP Login Password		Type the password for the HTTP server.				
Prox	oxy Address		Type the server name or the IP address of the HTTP Proxy.				
Prox	y Login Name	— т	ype the use	er name for the HTTP Proxy.			
Prox	xy Login Password		Type the password for the HTTP Proxy.				
Prox	oxy Port:		et port num	ber of Proxy.			

3.14 Event Schedule

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

Name	Enable Type Weekday Start Duration Trigger by Action						
Name							
Enable	♥Yes ●No						
Туре	♦ Event Trigger ● Schedule Trigger						
Enable Time	Sun Mon Tue Wed Thu Fri Sat Start from V V , Duration V V (max 168:00 hours)						
Trigger by	Sensor Active 💟 🗖 Motion Area 💟						
Action	Go ○ Preset ♥ ● Tour ♥ Voice Alert, Duration 5 (Seconds) Alarm Out, Duration 5 (Seconds) Send FTP ♥ Send TCP ♥ Send TCP ♥ Send HTTP ♥ Send HTTP ♥						
ne	Name of the Event or Schedule.						
able	Enable or disable this Event or Schedule.						
e	Schedule start with Event trigger or Schedule trigger.						
able Time	Define the feasible time slot.						
lger by	Select the triggered sources with event trigger.						
ion	Define the actions once event triggered.						

Example. If you want to upload image from ICA-350 to FTP server periodically. You will need to configure some parameters as below:

Name	FTP Upload
Enable	O Yes ● No
Туре	Event Trigger Oschedule Trigger
Enable Time	I ^{III} Sun VI Mon VI Tue VI Wed VI Thu VI Fri VI Sat Start from 0 V 0 V, Duration 24 V 0 V (max 168:00 hours)
Trigger by	Motion Area
Action	■ Go ● Preset <mark>♥</mark> ● Tour <mark>♥</mark> ■ Voice Alert, Duration (Seconds) ♥ Send FTP FTP Server ♥ ■ Send E-Mail

NOTE: ICA-350 will send a 15sec recording file to FTP server every min.

Appendix A: Reset Factory Default Settings

This button is used to restore the factory default settings. Sometimes restarting the ICA-108/108W will make the system back to a normal state. If the system still got problems after reset, user can restore the factory default settings and install it again.

Restore the ICA-350:

1. Loosen these two screws.



2. open the top cover



3. Press and hold the button down continuously.



4. Wait at least 10 seconds and release the button. Then the ICA-350 has been restored to factory default settings and reboot again.

Appendix B: 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 ICA-350 installed or if the IP address conflicts with any other devices over the network.

If you want to make sure the IP address of ICA-350, 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 ICA-350.

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



If you want to detect any other devices conflicts with the IP address of ICA-350, also can utilize the PING command but you must disconnect the ICA-350 from the network first.

Appendix C: Bandwidth and Video Size Estimation

The frame rate of video transmitted from the ICA-350 depends on connection bandwidth between client and server, video resolution, codec type, and quality setting of server. Here is a guideline to help you roughly estimate the bandwidth requirements for your ICA-350.

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 ICA-350 may be varying.

Image Resolution	Average range of Data Sizes for JPEG mode	Average bit rate for MPEG4 mode	
160 x 120 (QQVGA)	3 ~ 6k byte per frame	64kbps~384kbps @ 30fps	
320 x 240 (QVGA)	8 ~ 20k byte per frame	128kbps~768kbps @ 30fps	
640 x 480 (VGA)	20 ~ 50K byte per frame	256kbps~4096kbps @ 30fps	

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

Resolution	Quality setting	fps setting	Current stream	Current fps
320*240 CIF	Best	5 fps	around 2300Kbps	5 fps
320*240 CIF	Best	15 fps	around 6700Kbps	14.7fps
320*240 CIF	Best	25 fps	around 14300Kbps	28 fps
320*240 CIF	Normal	5 fps	around 400Kbps	4.2 fps
320*240 CIF	Normal	15 fps	around 1200Kbps	13 fps - 14 fps
320*240 CIF	Normal	25 fps	around 1700Kbps	30fps
320*240 CIF	Lowest	5 fps	around 350Kbps	4.2 fps
320*240 CIF	Lowest	15 fps	around 1100Kbps	13 - 14fps
320*240 CIF	Lowest	25 fps	around 2000Kbps	25 fps

MJPEG

MPEG4

Resolution	Stream setting	fps setting	Current stream	Current fps
640*480 VGA	384Kbps	5 fps	373Kbps - 388Kbps	5 fps
640*480 VGA	1024Kbps	5 fps	1024Kbps - 1036Kbps	5 fps
640*480 VGA	2048Kbps	5 fps	around 1800Kbps	5 fps
640*480 VGA	384Kbps	20 fps	around 550Kbps	22 fps
640*480 VGA	1024Kbps	20 fps	around 1400Kbps	20 fps
640*480 VGA	2048Kbps	20 fps	around 2600Kbps	16 - 17fps
320*240 CIF	200Kbps	5 fps	183Kbps - 200Kbps	5 fps
320*240 CIF	1024Kbps	5 fps	760Kbps - 800Kbps	5 fps
320*240 CIF	2048Kbps	5 fps	around 850Kbps	5 fps
320*240 CIF	200Kbps	25 fps	around 240Kbps	28 fps
320*240 CIF	1024Kbps	25 fps	around 1100Kbps	30 fps
320*240 CIF	2048Kbps	25 fps	around 1600Kbps	30 fps
160*120 QCIF	128Kbps	5 fps	117Kbps - 121Kbps	5 fps
160*120 QCIF	1024Kbps	5 fps	around 176Kbps	5 fps
160*120 QCIF	2048Kbps	5 fps	around 220Kbps	5 fps
160*120 QCIF	128Kbps	25 fps	around 155Kbps	30 fps
160*120 QCIF	1024Kbps	25 fps	around 520Kbps	30 fps
160*120 QCIF	2048Kbps	25 fps	around 1000Kbps	30 fps

Appendix D: DDNS Application

1. Preface

If you have a Cable modem or xDSL, this is a great way to host your own Networked Device or other TCP/IP Service. Get your own domain like www.yourname.com, www.yourname.com.tw etc. (Note: This domain must be registered with Internic via registration authorities such as Network Solutions, DirectNIC, Register.com etc). Your domain name's dynamic IP address is automatically tracked by a DDNS server.

Host your own Networked Device and much more no matter what your computer's IP address may be and even if you have dialup, DSL or cable modem internet connection where your computer's IP address changes all the time!! DDNS service supports all top level domain names including but not limited to .com, .net, .org, .to, .uk etc.

2. Ethernet Network Environment

Normally, DDNS service is only necessary for the users that could only obtain dynamic IP addresses. As to the users that could obtain the static valid IP address, they do not usually have to apply the DDNS service. Before we decide if DDNS is necessary for the users, we have to check what kind of Ethernet network environment we have to install our Networked Device on.

(1) Environment of Fixed Valid IP Network

If users could obtain valid IP addresses, they could save the effort to apply DDNS service. Because the IP address in this environment is fixed, users could input the IP address or domain name of demo site directly in the IE browser.

(2) Environment of Dynamic IP Network

If users is under an environment of dynamic IP network (Dial-up xDSL), they have to apply a domain name in advance. Then apply DDNS service. Finally setup the necessary information of DDNS and PPPoE of the Networked Device in order to let the outside administrator be able to access through internet.

3. Application Steps – DDNS & Domain Name

- (1). Visit the following web site: <u>http://www.dyndns.org/</u>
- (2). Click "Account"



(3). After the columns show up at the left side, click "Create Account".

OynDNS [°]				
		About	Services	Account
My Account	Logi	n		
Create Account				
Login			It is strongly recommer	nded that you visit this pag
Lost Password?	⊢Account I	Login		
			Username:	
Search DynDNS				
Search			You must	have cookies enabled
- (4). Fill the application agreement and necessary information.
 - a. Username
 - b. E-mail address and confirmation
 - c. Password and confirmation
 - d. Submit all the input information and finish creating an account

🎯 Dyn [DNS	0			User:	Lost P	Pass:
		About	Services	Account	Support	News	
My Account	Cre	ate You	r DvnDNS	Account			
Create Account			,				
Login	Please complete the form to create your free DynDNS Account.						
Lost Password?		It is strongly recommended that you visit this page <u>securely</u> . You are not currently visiting this page securely.					
Search DynDNS	-User Ir	userr E-mail Ado firm E-mail Ado	name: dress: dress:		structions to activate your a	ccount will be sent to i	the e-mail address provided.
	Password: Confirm Password: Confirm Password:				our password needs to be more than 5 characters and cannot be the same as your usernar choose a password that is a common word, or can otherwise be easily guessed.		
ferms of Service							

Please read the accepatable use policy (AUP) and accept it prior to creating your account. Also acknowledge that you may only have one (1) free account, and that creation of multiple free accounts will result in the deletion of all of your accounts.

. ACKNOWLEDGMENT AND ACCEPTANCE OF TERMS OF SERVIC	CE
All services provided by Dynamic Network Servic ("DupDNS") are provided to you (the "Member") .	ces, Inc.
Terms and Conditions set forth in this Accepta	ble Use Policy
("AUP") and any other operating rules and polic by DumDNS. The AUP comprises the entire excess	cies set forth
the Member and DynDNS and supersedes all prior	agreements
between the parties regarding the subject matter bergin BY COMPLETING THE DECISTRATION RECORDS	er contained
THE "Accept" BUTTON, YOU ARE INDICATING YOUR AC	GREEMENT TO BE
BOUND BY ALL OF THE TERMS AND CONDITIONS OF THE	E AUP.
ESCRIPTION OF SEA SE	_
I agree to the AUP:	
I will only create one (1) 🚽 🖊 🖛 Click t	hese two options
free account:	-

After you click "Create Account", we will create your account and send you an e-mail to the address you provided. Please follow the instructions in that e-mail to confirm your account. You will need to confirm your account within 48 hours or we will automatically delete your account. (This helps prevent unwanted robots on our systems)



(5). Check your e-mail mailbox. There will be an e-mail with a title "Your DynDNS Account Information". Click the hyperlink address to confirm the DDNS service that you just applied. Then DDNS you applied activated.
Click to confirm

Your DynDNS Account 'kkkkk' has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process:

https://www.dyndns.com/account/confirm/oDDGDYN75qTJk_ICGba6vQ

Our basic service offerings are free, but they are supported by our paid services. See <u>http://www.dyndns.com/services/</u> for a full listing of all of our available services.

If you did not sign up for this account, this will be the only communication you will receive. All non-confirmed accounts are automatically deleted after 48 hours, and no addresses are kept on file. We apologize for any inconvenience this correspondence may have caused, and we assure you that it was only sent at the request of someone visiting our site requesting an account.

Sincerely, The DynDNS Team

OynDNS [°]				User: Pass: Lost Pass: Lost Pass: Create Account			
		About	Services	Account	Support	News	
My Account	Account Confirmed						
Create Account	The account kkkkk has been confirmed. You can now login and start using your account.						
Login							
Lost Password?	Be informed of new services, changes to services, and important system maintenance/status notifications by subscribing to our Once there, you may subscribe to the Announce list by checking the appropriate box and clicking the "Save Settings" button.						

(6). Enter the web page http://www.dyndns.org/ again. Input your username and password that you just applied to login administration interface of DDNS server.



- (7). If the correct username and password are input, you can see the following picture at the top-right of the login page.
- (8). Click the "Services".



(9). Click the "Dynamic DNS ".

	About	Services	Account	Support	News			
Services	Services							
DNS Services								
Domain Registration	DynDNS provides a variety of services that help enhance your home or business Internet experience. V (DNS), high quality domain management, world-class e-mail services, web redirection, and network mor technical support by e-mail or phone where you speak to a highly trained engineer rather than a call ce							
SSL Certificates								
Mail Services								
Network Monitoring	DNS Services							
Web Redirection	<u>Custom DNS</u> - Our	dynamic and static	DNS management to	ol for your own dom	nain			
Account Upgrades	 <u>Secondary DNS</u> - A 	dd reliability to your	own nameservers					
Pricing	Dynamic DNS - A fi	ree DNS service for	those with dynamic I	P addresses	>			
My Cart		DNS service for the	ase with static ID ade					
0 Barre	 <u>TLD DNS</u> - DNS for 	r operators of ccTLE	is and gTLDs					

(10). Click the "Create Hosts".



fumbling to find that piece of paper where you wrote down your IP address, or e-mailing all your friends every time it changes. Just tell them to visit yourname.dyndns.org instead!

(11). We could create a domain name without any charge at this step. First, we input the host name. (No.1) Then we pick a domain that is easy to remember. Finally (No.2), click the "Add Host" to submit the domain name information. (No.3)

New Dynamic DNS SM	Host			
Hostname: 1	2 dy dy dy dy dy dy dy dy dy dy	rrdns.org	Add Host Reset For	m

4. Setup the DDNS and PPPoE of Network Device

At last, users have to enter the web page of Networked Device and setup the necessary information of DDNS and PPPoE after the application of DDNS service. Please check the user manual to access the DDNS and PPPoE pages. After saving the modification, restart the device. The external users could browse the Networked Device by the input of their domain name.