

CW-720

720P Wireless 150Mbps IPCAM

User's Manual

www.airlive.com





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FCC Statement

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 the 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 of the following measures:

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

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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. For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

IMPORTANT NOTE

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.





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Introduction



1.1 Overview

This camera is an inexpensive and fully scalable surveillance device. Because the Network Cameras can be plugged into your existing local area network (LAN), you will potentially save thousands of dollars from unnecessary cabling.

The device is accessible via the LAN or Internet connection. Connect your device directly to a local area network or xDSL modem, and with Microsoft® Internet Explorer, you get instant, on demand video streams. Within minutes you can set up the device to capture a video sequence to a PC. The live video can be uploaded to a website for the world to see.

1.2 Features

- Easy installation with setup wizard (IP Wizard II)
- UPnP device discovery and NAT router transversal for easy installation
- Dynamic IP Service, DIPS®, to search your IP camera from Internet easily
- H.264, MPEG4 and JPEG triple compression simultaneously
- 1.3 Mega-pixel resolution
- Up to 8-profile encoder simultaneously



- 1.3 Mega-pixel or 720P mode selectable
- Up to 30 fps for 720P mode
- Up to 30 fps for 1.3 Mega-pixel mode
- UDP / TCP / HTTP protocols selectable
- IEEE 802.11n wireless LAN (WLAN model)
- WEP/WPA/WPA2-PSK wireless security (WLAN model)
- 3GPP for 3G mobile remote application
- Digital zoom
- Built-in microphone
- Audio line out
- Two-way audio
- Micro SD Card Slot for Local Storage
- Continuous Recording to Micro SD Card and SAMBA Server
- Support P2P Function
- Intelligent motion detection up to 10 zones
- Go to preset once motion triggered
- Image transmission using an FTP or e-mail for event
- DDNS and PPPoE
- Multi-channel control software for surveillance application
- On-line firmware upgrade

1.3 System Requirements

- Microsoft Internet Explorer 6.0 or later
- Microsoft Media Player 11.0 or later (to playback recorded file)
- VGA Monitor resolution 1280 x 1024 or higher
- Pentium-4 3.6 GHz or higher
- Memory Size: 1GB or more
- Windows XP, Vista, 7

1.4 Package Contents

A user can find the following items in the package:

- This camera is the main element of the product.
- Camera Stand with screws
- Detachable WLAN antenna
- **Power adapter** dedicates 12V DC electric power output to Network Camera.
- User's manual CD provides important information and instructions for operating the Network Camera.



• Quick start guide provides important information and instructions for installing this device.

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

Note: Using a power supply with a different voltage than the one included with the Network Camera will cause damage and void the warranty for this product.

1.5 Physical Description

1.5.1 Front View



1. Lens & Focus Ring

A user could use this ring to adjust focus manually.

2. Microphone

The Camera has an built-in internal microphone. This microphone is hidden in the pinhole located on the front panel.

3. Micro SD Card Slot

A user can insert a micro SD card into this slot for event or continuous recording.



1.5.2 Bottom View



1. Audio Output Jack

Audio-out Jack allows this device to output audio or alerting sound.

2. DC Power Jack

The input power is 12VDC. **Note**: Supply the power to the Camera with the power adapter included in package. Otherwise, the improper power adapter may damage the unit and result in danger.

3. Antenna

A user can attach the included antenna to antenna connector (RP-SMA)

4. Factory Default Reset

This button is hidden in the pinhole. This button is used to restore the all factory default settings. Sometimes restarting the camera will make the system back to a normal state. If the system still got problems after restart, a user can restore the factory default settings and install it again. To restore the device, please follow the steps below:

- (1) Insert the paper clip or other tool and press and hold the button down continuously.
- (2) Hold it at least 5 seconds and release the tool. Then, the device has been restored to default settings and reboot again.

Note: Restoring the factory default setting will lose all previous settings included IP address forever. A user needs to run the IPWizard II program to search the device and configure it to let the device work properly again.



5. LAN Socket

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

6. LAN LED (green color)

This LED will be flashing while network accessing via Ethernet.

7. Power / Wireless LED (orange color)

This LED is used to indicate whether DC power is on or not. In addition, this LED will be flashing while the wireless accessing of the Camera.

1.6 Hardware Installation

- 1. Attach the Camera with the included stand
- 2. Place the Camera on the table or fix it onto ceiling or wall

Use three screws to fix the Network Camera onto the ceiling or wall. You could also put the Network Camera on the table directly.





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.



Connect the external power supply to the DC power jack of the Network Camera.
 Note: Use the power adapter, 12VDC, included in the package and connect it to wall outlet for AC power.



2

Getting Started



Once you have installed the Network 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 Network Camera, the LED will flash green under wired mode or orange under wireless mode.

When you install the Camera on a LAN environment, you have two easy ways to search your Cameras by IPWizard II or UPnP[™] discovery.



2.1 IP Wizard

Here is the way to execute IPWizard II to discover Camera's IP address and set up related parameter in a Camera.

	/ersion 1.0.0.4071		Interface : 192.168.0.92	×
Device Title	IP Address	Port	MAC	
AirCam OD-2025HD	192.168.0.14	80	00-4F-70-20-69-7D	
AirCam OD-2060HD	192.168.0.12	80	00-4F-70-20-74-28	
AirLive G.DUO	192.168.0.137	80	00-E0-4C-81-86-31	
CW-720	192.168.0.67	80	00-0E-AE-A2-61-94	
FE200CU	192.168.1.103	80	00-04-29-24-55-01	
FE200DM	192.168.0.79	80	00-04-29-22-25-01	
P0E-5010HD	192.168.0.13	80	00-4F-61-89-00-ED	
SEARCH 🔎 VIEW 💽	Camera: Model Name:C	W-720	User Name: admin Password:	
LAN 📥	Network: V	Vired		
	DHCP:	ON		
WIRELESS	WiFi: Er	nabled	Off-Line	
EXIT	Connection: Not C	Connected		

When launch the IPWizard II, a searching window will pop up. IPWizard II is starting to search Network Cameras on the LAN. The existed devices will be listed as below.

Air Live IP Wizard II Version 1.0.0.4071 Interface : 192.168.0.92						
Device Title	IP Address	Port	MAC			
AirCam OD-2025HD	192.168.0.14	80	00-4F-70-20-69-7D			
AirCam OD-2060HD	192.168.0.12	80	00-4F-70-20-74-28			
AirLive G.DUO	192.168.0.137	80	00-E0-4C-81-86-31			
CW-720	192.168.0.67	80	00-0E-AE-A2-61-94			
FE200CU	192.168.1.103	80	00-04-29-24-55-01			
FE200DM	Searching		-25-01			
P0E-5010HD	100)%	-00-ED			
SEARCH P VIEW O LAN I WIRELESS I EXIT	Camera: Model Name: Network: DHCP: WiFi: Connection:		User Name: admin Password: ****** Off-Line			



2.1.1 View

If IPWizard II finds network devices, **View** button will be available. Please select the device you want to view and click the **View** button. Then you could see the video from camera directly. Furthermore, you could double click the left button of mouse to link to the network device by browser.

Air Live IP Wizard II	Version 1.0.0.4071		Interface : 192.168.0.92	. 🗙
Device Title	IP Address	Port	MAC	
AirCam OD-2025HD	192.168.0.14	80	00-4F-70-20-69-7D	
AirCam OD-2060HD	192.168.0.12	80	00-4F-70-20-74-28	
AirLive G.DUO	192.168.0.137	80	00-E0-4C-81-86-31	
CW-720	192.168.0.67	80	00-0E-AE-A2-61-94	
FE200CU FE200DM	192.168.1.103 192.168.0.79	80 80	00-04-29-24-55-01 00-04-29-22-25-01	
P0E-5010HD	192.168.0.13	00 80	00-04-29-22-29-01 00-4F-61-89-00-ED	
SEARCH 🔎	Camera:		User Name: admin Password:	
VIEW O	Model Name: C	W-720		
LAN 📥	Network: Network	Wired		1
WIRELESS	DHCP:	ON		-
WIRELESS	WiFi: EI	nabled		
EXIT	Connection: S	uccess		þ

2.1.2 LAN

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



MAIL LIVE IP WIZARD II V	/ersion 1.0.0.4071		Interface : 192.168.0.92	
Device Title	IP Address	Port	MAC	
AirCam OD-2025HD	192.168.0.14	80	00-4F-70-20-69-7D	
AirLive G.DUO	192.168.0.137	80	00-E0-4C-81-86-31	
CW-720	192.168.0.67	80	00-0E-AE-A2-61-94	
SEARCH D	IP Address: 192.10	IP ○ DHCP IP 68.0 .67	User Name: admin Password:	
	Network: Static IP Address: 192.10			
VIEW O	Network: Static IP Address: 192.10 Subnet Mask: 255.29	68.0.67		
VIEW O	Network: Static IP Address: 192.10 Subnet Mask: 255.20 Gateway: 192.10	68.0.67 55.255.0	Password:	
VIEW O	Network: Static IP Address: 192.10 Subnet Mask: 255.29 Gateway: 192.10 DNS1: 192.10	68.0.67 55.255.0 68.0.254	Password:	

You could modify the relative settings of the selected device. Click "<<" button will quit the LAN setting procedure and click ">>" button will move to next page as below.

Air Live IP Wizard II Version	1.0.0.4071		Interface : 192.168.0.92
Device Title	IP Address	Port	MAC
AirCam OD-2025HD	192.168.0.14	80	00-4F-70-20-69-7D
AirCam OD-2060HD			00-4F-70-20-74-28
AirLive G.DU0	192.168.0.137	80	00-E0-4C-81-86-31
CW-720	192.168.0.67	80	00-0E-AE-A2-61-94
FE200CU			00-04-29-24-55-01
FE200DM			00-04-29-22-25-01
POE-5010HD	192.168.0.13	80	00-4F-61-89-00-ED
SEARCH > Use VIEW O LAN	hange Password		User Name: admin Password: AAAAAA

If you do not want to change username and/or password, just click "Submit" button to perform your setting accordingly. Click "<<" button will go back to previous page.



If you like to change username and/or password of the device, just click the check button. Then, the related fields will show up as below.

Air Live IP Wizard II	Version 1.0.0.4071		Interface : 192.168.0.92	
Device Title	IP Address	Port	MAC	
AirCam OD-2025HD	192.168.0.14	80	00-4F-70-20-69-7D	
AirCam OD-2060HD				
AirLive G.DUO	192.168.0.137	80	00-E0-4C-81-86-31	
CW-720	192.168.0.67	80	00-0E-AE-A2-61-94	
FE200CU				
FE200DM				
POE-5010HD	192.168.0.13	80	00-4F-61-89-00-ED	
SEARCH VIEW LAN WIRELESS EXIT	User: Change Password User Name: admin New Password: Confirm Password: Submit		User Name: admin Password: AAAAAA	

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



2.1.3 Wireless

🗑 Air Live IP Wizard II 🕚	/ersion 1.0.0.4071		Interface : 192.168.0.92
Device Title	IP Address	Port	MAC
AirCam OD-2025HD	192.168.0.14	80	00-4F-70-20-69-7D
AirCam OD-2060HD	192.168.0.12	80	00-4F-70-20-74-28
AirLive G.DUO	192.168.0.137	80	00-E0-4C-81-86-31
CW-720	192.168.0.67	80	00-0E-AE-A2-61-94
FE200CU	192.168.1.103	80	00-04-29-24-55-01
FE200DM	192.168.0.79	80	00-04-29-22-25-01
P0E-5010HD	192.168.0.13	80	00-4F-61-89-00-ED
SEARCH $ ho$ VIEW O	Camera: Model Name: C	W-720	User Name: admin Password:
LAN A		Vired	
	DHCP:	ON	The there are
WIRELESS a	WiFi: Er	nabled	
EXIT	Connection: S	uccess	

In case you want to change the IP related parameters of wireless interface, please select the device you want to configure and click the **WIRELESS** button. Relative settings will be carried out as above.

Click SSID to select your wireless AP or router and key in WEP or WPA key.

Air Live IP Wizard II	Version 1.0.0.40	71	Int	erface: 192.168	.0.92	×
BSSID	SSID	MODE	CHANNEL	ENCRYPTION	SIGNAL	٦
06:4F:68:50:1F:F2	airlive-2	Infrastructure	1	Off	30	
00:E0:4C:81:86:33	ipcam	Infrastructure	3	WPA	73	
00:4F:6A:0A:94:3E	Relax	Infrastructure	11	WPA	43	
00:4F:68:50:1F:F2		Infrastructure	1	Off	36	
SEARCH	WLAN:	-]	User Name: ac	Imin	1)
		ipcam			****	i l
VIEW O	BSSID	00:E0:4C:81:86:33				IJ
	Туре	: Infrastructure	-			
LAN -	Channel	AUTO	-			
WIRELESS	Security Mode	WPA_PSK/WPA2_PS	К 🔻	Off-I	line	
EXIT	WPA Key:	****				
	(ASCII: 8~63 Digits	s; HEX: 64 Digits)				
	<<		<u>>></u>			



Click >> to next step:

line IP Wizard II	Version 1.0.0.40	71	Int	erface : 192.168	.0.92	
BSSID	SSID	MODE	CHANNEL	ENCRYPTION	SIGNAL	
06:4F:68:50:1F:F2	airlive-2	Infrastructure	1	Off	30	
00:E0:4C:81:86:33						
00:4F:6A:0A:94:3E						
00: 4F: 68: 50: 1F: F2	WLAN:	Infrastructure		User Name: a	36 dmin	
VIEW O	Network: IP Address:	 Static IP DHC 192.168.0 1 		Password: **	****	
LAN AN WIRELESS	Gateway	255.255.255.	0	Off-1	Line	
	<<	Submit				

Make sure wireless setting and then submit it.

WLAN Setting	X
SSID:	ipcam
Type:	Infrastructure
Channel:	AUTO
Security Mode:	WPA_PSK/WPA2_PSK
Authentication:	Open System
WEP Default Key:	1
WEP Key:	
WPA KEY:	test1234
DHCP:	ON
IP Address:	
Subnet Mask:	
Gateway:	
🗙 Cancel	

Click **OK** to confirm these parameters, then IPWizard II will start to configure this camera with specified information.



Air Live IP Wizard II	Version 1.0.0.40	Int	Interface : 192.168.0.92				
BSSID	SSID	MODE	CHANNEL	ENCRYPTION	SIGNAL		
06:4F:68:50:1F:F2	airlive-2	Infrastructure	1	0ff	30		
00:E0:4C:81:86:33					73		
00:4F:6A:0A:94:3E					43		
00:4F:68:50:1F:F2		Infrastructure	1	110	36		
C	ommunication	31%					
SEARCH	WLAN:			User Name: a	idmin		
	Network	: 🔾 Static IP 💿 DHC	P IP	Password:	*****		
VIEW O	IP Address	192.168.0.	101				
LAN 🕂	Subnet Mask	255.255.255.	0				
WIRELESS	Gateway	192.168.0.	254	Off-	-Line		
EXIT							
	_ <<	Submit					

Once this step finished, IPWizard II will prompt you to unplug the Ethernet cable to activate wireless access. Then IPWizard II will prompt you to test wireless setting or finish wireless procedure as below.

🔞 Air Live IP Wizard II	Version 1.0.0.40	71	Inte	erface : 192.168.0	.92
BSSID	SSID	MODE	CHANNEL	ENCRYPTION	SIGNAL
06:4F:68:50:1F:F2	airlive-2	Infrastructure	1	0ff	30
00:E0:4C:81:86:33					73
00:4F:6A:0A:94:3E					43
00:4F:68:50:1F:F2		Infrastructure	1	110	36
SEARCH	WLAN:			User Name: adr	nin
		?F:68:92:2C:FD]	Password:	
WIRELESS S		TEST		Off-Li	ine



2.2 UPnP for Windows

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, Vista or 7, of your PC is UPnP enabled, the Network Camera will be very easy to be found.

Please refer to Chapter 5.9 to enable UPnP settings only if your operating system of PC is running Windows XP.

Note: Windows 2000 does not support UPnP feature.

To discover your device, go to your Desktop and click **My Network Places**.



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

2.3 Install the IP Camera behind NAT router

Once installed, the device is accessible on your LAN. To access the device from the Internet, you must configure your broadband router to allow incoming data traffic to the device. If the device is installed on the LAN with a router, it may get a dynamic IP address from the DHCP server. If the device wants to be accessed from the WAN, its IP address needs to be setup as fixed IP, also the port forwarding or Virtual Server function of router needs to be setup.



However, if your NAT router supports UPnP feature, it can be very easy to achieve NAT traversal automatically. To do this, enable the NAT-traversal feature, which will attempt to automatically configure the router to allow access to the camera.

Installing the device with an UPnP router on your network is an easy 3-step procedure:

- (1) Enable UPnP option of your NAT router
- (2) Enable UPnP NAT traversal option of the Network Camera (default)
- (3) Access your Network Camera by DIPS

(1) Enable UPnP option of your NAT router

To use UPnP IGD function (NAT traversal), you need to make sure the UPnP function is enabled in your router. Most new home routers should support this function. Some of routers are default enable and others are not. Please check user's manual of your NAT router for detail.

(2) Enable UPnP NAT traversal option of the Network Camera

Refer to **Setting** \rightarrow **Network** \rightarrow **UPnP** page for detail NAT traversal setting. Note that this option is default enabled.

(3) Access your Network Camera by DIPS

Refer to **Setting → System → System** page for detail DIPS information.

2.4 Configure IP Camera via Web UI

1. Start the web browser on the computer and type the IP address of the Camera you want to monitor as below:



The Login Window of the Camera is prompted:



Connect to 192.	168.1.100	? 🛛
R		AN.
The server 192.16 password.	8.1.100 at IPCam requires	a username and
User name:	2	~
Password:		
	Remember my pass	word
	ОК	Cancel

2. Type in your login name and password under "USERNAME" and "PASSWORD" textbox.

For the first time use (default value), input the

User Name: admin Password: airlive

That's, type in "admin" on the "USERNAME" as a default name and "airlive" on the "PASSWORD" as a default password. Click "OK" button to start the main menu.

- 3. According your browser's security setting, the IE Web Page may prompt the "Security Warning" window. If so, select "Yes" to install and run the ActiveX control into your PC. Otherwise, the system will load the ActiveX silently.
- 4. After the ActiveX control was installed and ran, the first image will be displayed.





2.4.1 Login as User

If you log in the Camera as an ordinary user, "Setting" function will be not accessible.

2.4.2 Login as Administrator

If you log in the Camera as the administrator, you can perform all the settings provided by the device.

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







Configure the Camera



1. Monitor the Image Section

The image shot by the device is shown. The date and time are displayed at the top of the window.

2. View Profile

The device supports multi-profile function for H.264, MEPG4 and JPEG simultaneously. A user can choose the proper and/or preferred profile which is listed.

3. Streaming Protocol

A user can select proper streaming protocol according to networking environment.

Streaming	?
ТСР	▼
UDP	
ТСР	
HTTP	



4. Configuration

Configuration

Click for configuring the camera settings.

5. Language

The device could provide multiple languages to meet customer's requirement.

Language	
English	-
English	
Deutsch	
French	
Czech	
Portuguese	
Portuguese-Br	
Spanish	
Polish	
Danish	

6. Two-Way Audio

The device supports 2-way audio function. A user can choose to enable or disable this function by toggling the icon below.



Disable audio uploading function.

Enable audio uploading function.

7. Full Screen

Enlarge video to full screen display.



: Enlarge video to full screen display. Press "ESC" key to disable this function.

8. Digital Zoom



User can drag or scale the box over the video to adjust zoom ratio and position.



9. 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.

10. 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_yyymmddhhmmss.avi

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

11. Recording Location C:\Users\Public\Desktop

Recording location

Browse

Select Recording Location to select the save path and file name prefix, select OK to continue.

Shapshot location

C:\Users\Public\Desktop

12. Snapshot Location

Select Snapshot Location to select the save path and file name prefix, select OK to continue.

Browse





Monitor the Image Section

4.1 Monitor the Image Section

This function is only available for a user logged into Camera as an administrator.

Click on each menu name to display its setting page.

Item	Action						
Network	Configure Network settings such as DHCP, DDNS, 3GPP, PPPoE and UPnP						
Camera	Adjust camera parameters, position, and set camera tour						
System	Configure system information, date & time, maintenance, and view system log file.						
Video	Configure bit rate and frame rate of video profiles						
Audio	Configure audio parameters						
User	Setup user name, password and login privilege						
E-Mail	Setup E-Mail configuration						
Object Detection	Setup Object detection						
Storage	Status and configuration of SD card						
Continuous Recording	Configure storage type and path						
Recording List	Files list inside the SD Card						
Event Server	Setup FTP/TCP/HTTP server for event						
Event Schedule	Configure the schedule while event triggered						



4.2 Configure via Web UI

4.2.1 Network

Use this menu to configure the network to connect the device and the clients. This section provides the menu for connecting the device through Ethernet cable.

MAC Address	00:	0E:AE:A2:6	1:94					
Obtain IP addr	ess automatic	ally (DHCP)					
IP Address	192	2.168.0.67		Test				
Subnet Mask	255	5.255.255.0)					
Gateway	192	2.168.0.254	ļ					
Primary DNS Secondary DNS	192	2.168.0.254	ļ					
HTTP Port	80			(1 ~ 6553	(5) Test			

MAC address:

Displays the Ethernet MAC address of the device. Note that a user can not change it.

Obtain 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 can not get an IP address within limited tries, the device will assign a default IP address, 192.168.1.100, by itself as the default IP address.

IP address, Subnet mask, and Gateway:

If you do not select **Obtain an IP address automatically**, then you need to enter these network parameters manually.

Obtain DNS from DHCP:

DNS: Stands for Domain Name System.



Enable this checked box when a DHCP server is installed on the network and provide DNS service.

Primary DNS and Secondary DNS:

If you do not select **Obtain DNS from DHCP**, then you need to enter these parameters manually.

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://192.168.1.100:8080</u>.

Therefore, the user can access the device by either <u>http://xx.xx.xx/</u>, or <u>http://xx.xx.xx/</u> to access the device.

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.

Click "OK" to save and enable the setting.

4.2.2 Wireless

If your device is a wireless model, you could assign the related parameters into wireless setting. Using a wired connection ensures greater secrecy while making these settings. These settings should always be made in the camera first and secondly in the wireless access point. This ensures that the device is always accessible when making changes.

Note that this function is only available for the model with WLAN capability.



Setting (Easy Installation):

Provide a 2-step procedure to configure wireless setting:

letwork Wireless	IPv6 HTTPS DD	NS PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notifica
	Step 1 : Plea	ase click the	table to c	hoose	the SSID	!		
Site Survey	MAC Address	SSID	Туре	Channe	Encryption	Signal St	Nath	
	00:4F:68:50:1F:F2		Infrastruc		Off	20	8	
	08:4F:68:50:1F:F2	airlive-2	Infrastruc	ture 1	Off	20		
	00:E0:4C:81:86:33	ipcam	Infrastruc	ture 3	WPA2PSK	53		
	00:50:18:21:D7:AC	airlive2.4	Infrastruc	ture 11	Off	33		
	00:4F:6A:0A:94:3E	Relax	Infrastruc	ture 11	WPA2PSK	33		
SSID	ipcam							
	Back	Go Step	2					

Step 2: Key in security key of WEP or WPA. Then click "Submit" button to activate wireless setting.

		s	Step 2 : F	Please	input th	e authenti	cation i	informati	on!	
SSID Security WPA Me WPA Ke	ode	(2	Done ON			PA2_PSK				
		(#	Go Step		64 Digits)					



twork Wireless	IPv6 HTTPS	DDNS PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification			
Site Survey	MAC Address	SSID	Туре	Channe	Encryption	Signal Str	rength				
	00:4F:68:50:1F:F2	2	Infrastruc	Infrastructure 1		23					
	06:4F:68:50:1F:F2	airlive-2	Infrastruc	ture 1	Off	26					
	00:E0:4C:81:88:33	ipcam	Infrastruc	ture 3	WPA2PSK	53					
	00:4F:6A:0A:94:3E	Relax	Infrastruc	ture 11	WPA2PSK	33					
	00:0D:54:A0:AD:B	9 sansho	Infrastruc	ture 11	WPAPSK	13					
	00:50:18:21:D7:A0	c airlive2.4	Infrastruc	ture 11	Off	26					
MAC Address	74:2F:68:92:2C:	50									
Interface Select											
interface derede	Wired (Ether	rnet) only									
	O Auto - wired	d if cable connected,	otherwise wirele	55							
Туре	🔿 Adhoc 💿 I	nfrastructure									
SSID	default										
BSSID											
Channel	ETSI, Europe	ETSI, Europe									
Security Mode	⊙ None ○ W	EP O WPA_PSK/W	PA2_PSK								
Obtain IP address	automatically (DHCP)										
☑ Obtain IP address		Test									
	automatically (DHCP) 192.168.0.101 255.255.255.0	Test									

In case, a user wants to configure wireless settings manually, please follow the steps as below:

MAC address:

Displays the Ethernet MAC address of the WLAN card. Note that a user can not change it.

Site survey:

Click the "Refresh" button. It will refresh information window which list is the result of a network scan. Access points with a disabled SSID Broadcast will not appear unless the camera is associated with it. The following information is provided:

Interface Select:

"Wired (Ethernet) only" or "Auto – wired if cable connected, otherwise wireless": Choose wired or wireless mode. However, note that wired is priority.

Type:

To select one of WLAN modes from Infrastructure or Ad-Hoc mode.

Security mode:

Shows which type of security the network uses. The device supports three security methods:

None WEP WPA_PSK/WPA2_PSK

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SSID:

This is the name of the wireless network the device is configured for. The field accepts up to 32 alphanumeric characters. The name must be exactly the same as that used in the wireless access point, or the connection will not be established.

Leaving this field blank means the device will attempt to access the nearest open network.

Channel:

Chooses the wireless channel in use currently.

WEP settings:

- Authentication:

Select Open or Shared Key System Authentication, depending on the method used by your access point. Not all access points have this option, in which case they probably use Open System, which is sometimes known as SSID Authentication.

- WEP Mode:

The key types available depend on the access point being used. The following options are available:

•ASCII - In this method the string must be exactly 5 characters for 64-bit WEP and 13 characters for 128-bit WEP.

•HEX - In this method the string must be exactly 10 hexadecimal (0-9, A-F) characters for 64-bit WEP and 26 hexadecimal characters for 128-bit WEP.

- Web Key 1~4:

Key value of WEP.

WPA settings:

- WPA Key:

Key value of WPA. The device uses a pre-shared key (PSK) for key management. The pre-shared key can be entered either as Manual hex, as 64 hexadecimal characters, or as a Passphrase, using 8 to 63 ASCII characters.

Obtain 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.

IP address, Subnet mask, and Gateway:

If you do not select **Obtain an IP address automatically**, then you need to enter these network parameters manually.

Select "OK" to save and enable the setting.



Note: To enable WLAN function, a user must set these related parameters correctly at first. Then, power off the device and remove Ethernet cable from device. Power on the device again and WLAN mode will be available accordingly.

4.2.3 IPv6

IPv6: To enable or disable the IPv6 service here.

The IP communication protocol used for current Internet is having the problem of insufficient IP addresses. The one-for-all solution is the new-generation internet protocol, IPv6. IPv6 has 16-byte long address space, offering a huge number of addresses, and also provides better scalability, quality of service, mobility, and security to the network.

Network	Wireless	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification
IPv6		0	Disable 🔇	Enable							
C	ОК	Can	cel								

4.2.4 HTTPS

HTTPS: Stands for Hypertext Transfer Protocol Secure

HTTPS is a combination of the <u>Hypertext Transfer Protocol</u> with the <u>SSL/TLS</u> protocol to provide encrypted communication and secure identification of a network <u>web server</u>. 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 <u>eavesdroppers</u> and <u>man-in-the-middle attacks</u>, provided that adequate cipher suites are used and that the server certificate is verified and trusted.



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.

If the HTTPS is enabled, there is further option for "HTTP&HTTPS" or "HTTPS only". In case, the "HTTPS only" is enabled, all packets from the Camera will go through HTTPS only and HTTP service is no longer available.

Port:

Choose the HTTPS port. The default value is 443.

Network	Wireless	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification]
HTTPS Port	VIICIESS	(Misable C](1 ~ 65535)		UPIIP	bonjour	UNVIE		IF HOLIICAUON]
	ОК	Cai	ncel									

4.2.5 DDNS

DDNS: Stands for Dynamic Domain Name Server

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 device over the Internet. One of the possible solutions to the dynamic IP address problem comes in the form of a dynamic DNS service.



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. 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 G for more information.

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 your NAT router should take care of this job. 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.

[Network	Wireless	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
_		Ĺ	5										
	DDN S		0	💿 Disable 🔘 Enable									
	Server Name		đ	lyndns , org	*								
	DDNS Host						(1 ~ 30 Digits)						
	User Name			(< 22 Digits)									
	Password					(< 22 Digits)							
	Internet Status		Co	nnected (203	3.69.30.1)								
	ſ	ОК	Car	icel									

DDNS:

To enable or disable the DDNS service here.

Server name:

Choose the built-in DDNS server.

DDNSHost:

The domain name is applied of this device.

User name:

The user name is used to log into DDNS.



Password:

The password is used to log into DDNS.

4.2.6 **PPPoE**

PPPoE: Stands for Point to Point Protocol over Ethernet

A standard builds on Ethernet and Point-to-Point network protocol. It allows your device with xDSL or cable connects with broadband network directly, then your device can dial up and get a dynamic IP address. For more PPPoE and Internet configuration, please consult your dealer or ISP.

The device 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	Wireless	IPv6	HTTPS	DDN S	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification
_												
	PPPoE		0	🕑 Disable 🕻	Enable							
	User Name Password IP Address Subnet Mask		(< 65 Digits)									
			(< 65 Digits)									
			(readonly)									
			(readonly)									
	Gatewa	ау				(readonly)						
	Status					(readonly)						
	ſ	ОК	Car	ıcel								


PPPoE:

To enable or disable the PPPoE service here.

User name:

Type the user name for the PPPoE service which is provided by the ISP.

Password:

Type the password for the PPPoE service which is provided by the ISP.

IP address, Subnet mask, and Gateway (read only):

Shows the IP information got from PPPoE server site.

Status:

Shows the Status of PPPoE connection.

4.2.7 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.

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 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.



Network	Wireless	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification
RTSP P	_	-			7	_					
RTP Por			554		(554 ~ 655	35) Test					
KIP POI	n	4	50000		~ 50999		(1024 ~ 65	535)			
	ОК	Ca	incel								

4.2.8 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.



Network Wireless IPv6 HTTPS DDNS PPPoE Streaming UPnP Bonjour OIIVIF IP Filter IP Notification	UPnP ODisable Enable Friendly Name CW-720 - 000EAEA26194 (readonly) UPnP NAT Traversal ODisable Enable Port Range 32768 ~ 65535 (1 ~ 65535)
Friendly Name CW-720 - 000EAEA26194 (readonly) UPnP NAT Traversal O Disable • Enable Port Range 32768 ~ 65535	Friendly Name CW-720 - 000EAEA26194 (readonly) UPnP NAT Traversal O Disable © Enable Port Range 32768 ~ (65535)
Friendly Name CW-720 - 000EAEA26194 (readonly) UPnP NAT Traversal O Disable O Enable Port Range 32768 ~ 65535	Friendly Name CW-720 - 000EAEA26194 (readonly) UPnP NAT Traversal O Disable • Enable Port Range 32768 ~ 65535
UPnP NAT Traversal O Disable O Enable Port Range 32768 ~ 65535 (1 ~ 65535)	UPnP NAT Traversal O Disable O Enable Port Range 32768 (1 ~ 65535)
Port Range 32768 ~ 65535 (1 ~ 65535)	Port Range 32768 (1 ~ 65535)
External IP Address (readonly)	External IP Address (readonly)

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[™]. **Note** that UPnP[™] must be enabled in the NAT router first.

Port Range:

The port range will open in NAT router.

External IP address:

Show the IP address and port for WAN access through Internet. If NAT traversal is configured successfully, user can use this IP address and port to access this device. The external IP address is not shown in case NAT traversal function is failed.

4.2.9 Bonjour

Bonjour, also known as zero-configuration networking, enables automatic discovery of computers, devices, and services on IP networks. Bonjour uses industry standard IP protocols to allow devices to automatically discover each other without the need to enter IP addresses or configure DNS servers. Specifically, Bonjour enables automatic IP address

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assignment without a DHCP server, name to address translation without a DNS server, and service discovery without a directory server. Bonjour is an open protocol which Apple has submitted to the IETF as part of the ongoing standards-creation process.

Bonjour:

To enable or disable the Bonjour service here.

Friendly Name:

Shows the friendly name of this device here.

Network	Wireless	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification
Bonjou	r	(🕽 Disable 🧿) Enable							
Friendly	/ Name	C	:W-720 - 000E	EAEA26194	Ļ		(readon	у)			
	ок	Car	ncel								

4.2.10 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, to create a standard for how <u>IP products</u> within <u>video surveillance</u> and other physical security areas can communicate with each other.



						-					
Network	Wireless	IPv6	HTTPS	DDN S	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification
								I			
ONVIF		(Disable 🤅	Enable				T			
		(⊙ v1.0 ⊖ v	1.01/V1.02	V2.0/V2.1.1						
	ОК	Ca	ncel								

ONVIF:

To enable or disable the ONVIF interface here. And select the ONVIF version to match client's supported version.

4.2.11 IP Filter

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

IP Filter:

To enable or disable the IP filter function here.

IP Filter Policy:

Choose the filter policy where is denying or allowing.



Г	Network	Wireless	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Popiour	ONVIF	IP Filter	IP Notification
L	Network	wireless	IPVO	ппра	DDNS	PPPOE	streaming	UPTIP	Bonjour	UNVIP	IP Filler	IP Notification
	IP Filte	r	0	Disable 🤇	Enable							
	IP Filte	r Policy		Deny 💿 A	llow							
			_	ave								
					Filter	IP List						
				Filter	IP							
				G			-					
				A	dd Delete	DeleteAl						
	Į.											

4.2.12 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.

SMTP Notification (e-mail):

If enable this function, then the "Send to" and "Subject" fields need to be filled.

Send To:

Type the receiver's e-mail address. This address is used for reply mail.

Subject:

Type the subject/title of the E-mail.

TCP Notification:

If enable this function, then the "**TCP Server**", "**TCP Port**", and "**Message**" fields need to be filled.

TCP Server:

Type the server name or the IP address of the TCP server.



Network	Wireless	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification
SMTP I	lotification(ema	iil) (O Disable	Enable							
Send To	Þ				< 129 Digits	5)					
Subjec	t	I	P notification		(< 65 Digits)						
TCP No	tification	(🖸 Disable 🔘	Enable							
TCP Se	rver				(< 65 Digits)						
TCP Po	rt				(1 ~ 65535)						
Messa	ge				(< 65 Digits)						
HTTP N	otification	(🖸 Disable 🔘	Enable							
URL		ŀ	nttp://				(< 61 Dig	gits)			
HTTP L	ogin Name				(< 22 Digits)						
HTTP L	ogin Password				(< 22 Digits)						
Proxy #	ddress				< 129 Digits	5)					
Proxy F	Port				(1 ~ 65535)						
Proxy I	ogin Name.				(< 22 Digits)						
Proxy I	ogin Password				(< 22 Digits)						
Custom	er parameters						(< 65 Dig	gits)			
Messa	ge						(< 65 Dig	gits)			

TCP Port:

Set port number of TCP server.

Message:

The message will be sent to FTP server.

HTTP Notification:

If enable this function, then the fields below need to be filled.

URL:

Type the server name or the IP address of the HTTP server.

HTTP Login name:

Type the user name for the HTTP server.

HTTP Login Password:

Type the password for the HTTP server.

Proxy Address:

Type the server name or the IP address of the HTTP Proxy.





Proxy Port:

Set port number of Proxy.

Proxy Login name:

Type the user name for the HTTP Proxy.

Proxy Login Password:

Type the password for the HTTP Proxy.

Custom parameter:

User can set specific parameters to HTTP server.

Message:

The message will be sent to HTTP server.

4.3 Camera – Adjust Camera Parameters

Use this menu to set the functions of the camera parameters of the device.

4.3.1 Picture

Rotation	Normal	
White Balance	Auto 💟	
Exposure Control	Auto Exposure	
Maximum Exposure Time	1/30 S 🗸	the second
Power Frequency	◯ 50Hz ⊙ 60Hz	the second
Exposure Value	50 (0 ~ 100)	
Color Level	50 (0 ~ 100)	
Brightness	50 (0 ~ 100)	
Contrast	50 (0 ~ 100)	
Sharpness	50 (0 ~ 100)	
3D De-Noise	Off 🗸	
Default Settings	Default Settings	



Rotation:

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



White Balance:

Auto: will adjust the white balance automatically. Hold: will hold the white balance.

Exposure Control:

Auto: will adjust the internal gain automatically. Hold: will hold the internal gain.

Maximum Exposure Time:

Set the Maximum Exposure Time. However, the real exposure time may be shorter if good light condition.

Power Frequency:

Frequency of power line: 50 or 60Hz.

Exposure Value:

Exposure value is AE target value. This value is to adjust the integration, analog gain and digital gain to achieve the target brightness value (Exposure Value).

This value is dependent to "Auto Exposure" only.

Color Level:

Large value will be colorful.



Brightness:

Large value will brighten camera.

Contrast:

Large value will contrast camera heavily.

Sharpness:

Large value will sharpen camera.

3D De-Noise:

The 3D De-Noise can remove or lower unwanted noise and preserve fine details and edges as possible. This function is able to lower the bitrate a lot, especially in low light environment.

Default Settings:

Restore to factory image settings.

4.3.2 Privacy Mask

Use this page to specify privacy mask window 1 to window 7 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 window.

Level

Defines the gray level of mask block. The lower value will be darker.





4.4 System – Configure and Maintain Use this menu to perform the principal settings of the device.

System 4.4.1

	6 (Dynam				O Disable (Enable Test
Dev	ice Title			C	CW-720	(0 ~ 30 Digits)
Soft	ware Ve	rsio	1	6.	E.2.8997	
Netv	vork LE)			Enable C	Disable
Pow	er LED (Wire	less LE	D)	• Enable	Dirable
						/ Disable
Log					Reload	
						~
	Nov					syslog.info syslogd started: BusyBox v1.13.4
						user.notice kernel: klogd started: BusyBox v1.13.4 (
	Nov					user.notice kernel: Linux version 2.6.28 (root@local
	Nov					user.warn kernel: CPU: FA626TE [66056261] revision 1
	Nov					user.warn kernel: CPU: VIPT aliasing data cache, VIF
	Nov					user.warn kernel: Machine: Faraday GM8126 user.warn kernel: Warning: bad configuration page, t
	Nov					user.warn kernel: Memory policy: ECC disabled, Data
	Nov					user.debug kernel: On node 0 totalpages: 32768
	Nov					user.debug kernel: free area init node: node 0, pgdav
	<		20.1		011 / 20	aber.acbag xerner. free_area_inito_noae. noae o, pgat
	•					



DIPS (Dynamic IP Service):

To enable or disable the DIPS® (Dynamic IP Service) function.

Device ID (for DIPS):

It's a unique number of each device for identification and this ID is used for DIPS.

In the Appendix G, it describes how to locate your device from Internet by DDNS service. However, we provide another easier way to do the same job called Dynamic IP Service, DIPS®.

To use this service, just follow four steps below:

- (1) Enable DIPS function of the device
- (2) Check your Device ID from this page. This is a unique number for each device.

(3) If your device is behind a NAT router, please configure your device properly. You could refer to section "Install the Camera behind a NAT Router" above. You only need to do this job one time.

(4) Visiting our company's web site, you can find DIPS service page as below:



Enter your Device Number and press "OK" button.

Then, a new web page will pop up and link to your device accordingly. You will see that DIPS is a much easier service than DDNS.

Device Title:

You can enter the name of this unit here. It's very useful to identify the specific device from multiple units. The information will be shown on IPWizard II once the device is found.



Software Version:

This information shows the software version of the device.

Network LED:

To turn on or off Network LED.

Power LED (Wireless LED):

To turn on or off Power LED (wireless LED if WLAN model).

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.

4.4.2 Date & Time

You can setup the device or make it synchronized with PC or remote NTP server. Also, you may select your time zone in order to synchronize time locally.

Server Date & Time:

Displays the device's date and time.

PC Time:

Displays the connected PC's date and time.

Adjust:

- Synchronize with PC:

Click this option to enable time synchronization with PC time.

- 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:

Type the host name or IP address or domain name of the NTP server.

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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:

Disable or enable the daylight saving adjustment.

Server Date & Time	2011-4-08 07:54:58
PC Time	2011-4-8 15:54:58
Adjust	Synchronize with PC
	O Manual setting : Date : 2010 💙 - May 💙 - 21 💙 Time : 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	Disable Enable
Daylight Saving StartTime	Jan 💙 01 💙 00 💙: 00 💙
Daylight Saving StopTime	Jan 💙 01 💙 00 💙 00 💙
Daylight Saving Offset	+ • 01 • 00 • 00 •

4.4.3 Maintenance

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.

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

Firmware Upgrade:

The device supports new firmware upgrade (the software that controls the operation in the device). Please contact your dealer for the latest version if necessary.

Download the latest firmware file from our website or your dealer. Unzip this firmware file to binary file and store it into your PC. Then follow the steps as bellows carefully:

1. Close all other application programs which are not necessary for firmware update.

2. Make sure that only you access this device while firmware updating.

- 3. Disable Motion Detection function.
- 4. Click "**Browse**" button. 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.)

5. Once the firmware file was selected, click "Firmware Upgrade" button.



6. The upgrade progress information will be displayed. Once the uploading process completed, the device will reboot the system automatically.

7. Please wait for timer countdown, and then you can use IPWizard II to search the device again.

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

Strongly suggest that DO NOT upgrade firmware via Wireless LAN due to high error rate possibly and don't allow any other clients to access this unit during updating procedure.

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

Furthermore, the firmware upgrade procedure always is risk and do not try to upgrade new firmware if it's not necessary.

System Restart:

The device is restarted without changing any of the network settings. It means the IP address of the device will not change after firmware upgrade.

4.5 Video – Configure Profile

This device provides 2 modes of video profile. The first one is 1.3 Mega mode which supports video resolution up to 1.3 Mega-pixel. The second one is 720p mode which supports video resolution up to 1 Mega-pixel. User only can select either 1.3 Mega or 720p mode to operate the camera. Switching 1.3 Mega and 720p mode, the device will take time to reboot system.



4.5.1 Common

Video Profile	○ 720p Mode ⊙ 1.3 MEGA Mode
Text Overlay Setting	Font Color 797979 Set Color Default Color
	Background Color 101010 Set Color Default Color
	Transparency 0 (opacity) 💟
	Include Date
	Predefined YYYY-MM-DD
	Own %Y-%m-%d (0 ~ 12 Digits)
	Include Time
	Predefined 24h
	Ovvn %H:%M:%S (0 ~ 12 Digits)
	Include Text General Text 🗸
	(0 ~ 20 Digits)

Video Profile:

User can only choose either 720p or 1.3 Mega modes. 720p mode can serve streams up to 1280x720 resolution maximum. On the other hand, 1.3 Mega mode, it can streams up to 1280x1024 resolution maximum.

Note that this camera supports local video output for TV monitor. It's very useful to check view angle or focus during camera installation. However, the local video output in only available at "720p" mode. If user needs this function, must switch this camera to "720p" mode first.

Text Overlay Setting:

There are some important information can be embedded into image, including date, time, and/or text. User also can change the font color, background color, or Transparency.



4.5.2 Video Profile

Profile1 h2	64	1280x1024	EVBR	90	-	30	30	no	no		
Profile2 mj	peg	1280×1024	VBR	90	-	6	1	no	no		
Profile3 h2	64	640x480	EVBR	90	-	30	30	no	no		
	peg	640x480	VBR	90	-	6	1	no	no		
Profile5 h2		320x240	EVBR	90	-	30	30	no	no		
Profile6 mj Profile7 h2	peg	320x240	VBR EVBR	90 90	-	30	1	no	no		
	oe peg	160x120 160x120	VBR	90	-	30 30	30 1	no	no no		
FIOLILEO MJ	peg	1002120	VDK	30	-	50	-	1.0	150		
Name		Profile1									
Video Type		h264 🗸									
Resolution		1280x1024									
ROI	🔿 Yes 🛞	No									
Rate Control	EVBR V Quality 90 Max Bitrate	✓ 4000 К Ы	ps 384 ~ 60(00							
Max Frame Rate		30 💟									
GOP Control		30 💙									
Multicast		O Enable	💿 Disable								
Multicast Video		IP Address	239.198.97.1	81	Port 0	(0 means auto,	1024 ~ 65534)				
Multicast Audio		IP Address	239.198.97.1	81	Port 0	(0 means auto,	1024 ~ 65534)				
Time to live		1		(1 ~ 255)							
Always Enable Multic	ast	O Enable	Oisable								

Name:

Assign a name to the selected profile.

Cancel

ОК

Video Type:

Video codec of the selected video profile.

Resolution:

Resolution of the selected video profile.

ROI:

Assign the selected profile as a ROI stream or not.

Rate Control:

Defines the rate control method of this profile. There are four options: Constant Bit Rate (CBR), Variable Bit Rate (VBR), Enhanced Constant Bit Rate (ECBR), and Enhanced Variable Bit Rate (EVBR).

For CBR, the video bit rate is between low to high bandwidth based on different resolutions. User can set the desired bit rate to match the limitation of bandwidth.

For VBR, user should choose the quality level to set the video quality rather than 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 ECBR, the video bitrate is based on normal CBR mode. However, the target bitrate can be increased to max target bitrate while lots of motion in video. The max target bitrate will keep a pre-defined time period and then back to normal CBR bitrate.

For EVBR, the video bitrate is based on normal VBR mode. However, the target bitrate can be increased to max target bitrate while lots of motion in video. The max target bitrate will keep a pre-defined time period and then back to normal VBR mode.

Max Frame Rate:

Defines the targeted frame rate of this profile. For example, set the frame rate to 15 fps, then the image will be updated for 15 frames per second as possible. User need to set reasonable 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.

Multicast:

Enable or disable the multicast function.

Multicast Video:

Fill in the IP address and port for multicast video streaming of the selected profile.

Multicast Audio:

Fill in the 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, you shall make sure your Intranet does support multicast function. Otherwise, your Intranet may occur network storm seriously.



4.5.3 ROI

ROI means Region of Interest. Use this page to specify ROI window which ROI is QVGA resolution.





4.6 Audio – Audio Parameters

Setting

Setting

Audio	🔿 Disable 💿 Enable
Audio Type	g726 💟
Audio Mode	O Simplex 🕑 Full duplex
Input Gain	80 🔽
Output Gain	80 💟

Audio:

To enable or disable audio function

Audio Type:

To select audio codec

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



4.7 Manage User Name, Password and Login Privilege

Use this menu to add, update, or remove the usernames and passwords of the Administrator and viewer.

User Name	Access Right		User List
admin	administrator	User Name	(1 ~ 20 Digits
		Password	(0 ~ 20 Digits
		Verify Password	(0 ~ 20 Digits
		Access Right	O Administrator 💿 Viewer
			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.

Add, update, and remove of Users account:

Manage the user's account of viewer user.

4.8 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.



SMTP Server		(< 129 Digits) Tes
SMTP Port	25	(1 ~ 65535)
SSL	⊙ Disable ○ Enable	
SMTP Authentication	💿 Disable 🔘 Enable	
Authentication User Name		(< 65 Digits)
Authentication Password		(< 22 Digits)
E-mail From		(< 129 Digits)
E-mail To		(< 129 Digits)
E-mail Subject		(< 65 Digits)

SMTP Server:

Type the SMTP server name or the IP address of the SMTP server.

Test:

Send a test mail to mail server to check this account is available or not.

SMTP Port:

Set port number of SMTP service.

SSL:

Enable SSL function or not.

SMTP Authentication:

Select the authentication required when you send an e-mail.

Disable: if no authentication is required when an e-mail is sent.

Enable: if authentication is required when an e-mail is sent.

Authentication User name:

Type the user name for the SMTP server if Authentication is Enable.



Authentication Password:

Type the password for the SMTP server if **Authentication** is **Enable**.

E-mail To:

Type the receiver's e-mail address.

E-mail From:

Type the sender's E-mail address. This address is used for reply e-mails.

E-mail Subject:

Type the subject/title of the e-mail.

4.9 Object Detection

Use this menu to specify motion detection window 1 to window 10 and set the conditions for detection while observing a captured image.



Add and Del:

To add or delete the motion windows. User can specify up to 10 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.



Included or Excluded Window:

These windows can be specified as Included or Excluded type. **Included** windows target specific areas within the whole video image **Excluded** windows define areas within an Include window that should be ignored (areas outside Include windows are automatically ignored)

Name:

Name of the specified motion window.

Object Size:

Defines the object size of motion detection. The higher object size will only larger objects trigger motion detection. The lower object size will even small objects trigger motion detection too. Generally speaking, the smaller size will be easier to trigger event.

Sensitivity

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

4.10 Storage – Status and Configuration of SD card

4.10.1 SD Card

This page shows the status of attached SD card. You may setup related parameters to manage the attached SD card also.

SD Card SAMBA S	erver	
Disk ID	SD_DISK	Mount
Status	Free space	0% - 0KB Reload Format
	Total size	0 KB
	Status	No SD card inserted
	Full	Yes
	Readonly	No
Enable auton	natic disk cleanup	
Remove reco	ordings older than: 7	day(s)
Remove olde	est recordings when di	isk is: 95 % full
Lock disk		



Enable automatic disk cleanup:

Delete old recorded files while the conditions are reached as below.

Remove recordings order than:

Delete old files by days.

Remove oldest recordings when disk is:

Delete old files by left capacity.

4.10.2 SAMBA Server

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

SD Card SAMBA Serv	er
Host	(1 ~ 63 Digits)
Share	(1 ~ 63 Digits)
User Name	(< 63 Digits)
Password	(< 63 Digits)
Status	Not Connect
Total size	0 KB
Free space	0% - 0 KB
SAMBA Server	Mount
ОК	Cancel

Host:

Type the SAMBA server domain name or the IP address of the SMTP server.

Share:

Type the share folder of remote SAMBA server which the camera will upload files to this space.



User name:

Type the user name for the remote SAMBA server.

Password:

Type the password for the remote SAMBA server.

4.11 Continuous Recording

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

Continuous Recording	📀 Disable 🔘 Enable
Record File Type	Profile1 h264 / 1280x1024 💟
Disk	○ SD Card ④ SAMBA Server
Path	Airlive-000EAEA26194 (For example: Folder1/Folder2/Folder3) (1 ~ 63 Digits)
Restart (Restarting will	delete the current recording.)
Oldest recordings will be	removed if the disk is 90% full and free space is smaller than 1GB.

Continuous Recording:

Enable or disable this function.

Record File Type:

Choose a video profile to record.

DISK:

Save recorded files to SD card or remote SAMBA server.

Path:

Define the folder path for the recorded files.

Restart:

Be careful, click this button will delete all continuous files recorded in SD card or remote SAMBA server.

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4.12 Recording List- Files List inside SD Card

4.12.1 Recording List

This page shows the files list information. User may play or delete the selected file.



4.12.2 Continuous Recording List

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

Date	File	:	Trigger b	y Size	
Reload	Recover		Play	Remove	

צכ



4.13 Event Server

4.13.1 FTP Sever

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.

Name	F	TP Server	FTP Port	FTP Path
lame			(< 22	Digits)
TP Server			(< 65	Digits) Test
TP Login Name			(< 22	Digits)
TP Login Passv	vord		(< 22	Digits)
TP Port		21	(1 ~ 6	5535)
TP Path			(< 65	Digits)
TP Passive Mod	le	Oisable	O Enable	

Name:

User can specify multiple FTP paths as wish. Therefore, user needs to specify a name for each FTP setting.

FTP Server:

Type the server name or the IP address of the FTP server.

Test:

Check the FTP server whether this account is available or not.

FTP Login name:

Type the user name for the FTP server.

FTP Login Password:

Type the password for the FTP server.



FTP Port:

Set port number of FTP service.

FTP Path:

Set working directory path of FTP server.

FTP Passive Mode:

Select passive or active mode connecting to FTP server.

4.13.2 TCP Sever

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	SAMBA Server	
Name	TC	P Server	TCP Port	
Name			(< 22 Digits)	
TCP Server			(< 65 Digits) Test	
TCP Port			(1 ~ 65535)	

Name:

User can specify multiple TCP servers as wish. Therefore, user needs to specify a name for each TCP server setting.

TCP Server:

Type the server name or the IP address of the TCP server.

TCP Port:

Set port number of TCP server.

4.13.3 HTTP Sever

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



FTP Server TCP Server	HTTP Server	SAMBA Server
-----------------------	-------------	--------------

Name	HTTP Set	rver	Proxy Addres	35
			7	
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 wish. Therefore, user needs to specify a name for each HTTP server setting.

URL:

Type the server name or the IP address of the HTTP server.

Test:

Check the HTTP server whether it is available or not.

HTTP Login name:

Type the user name for the HTTP server.

HTTP Login Password:

Type the password for the HTTP server.

Proxy Address:

Type the server name or the IP address of the HTTP Proxy.

Proxy Login name:

Type the user name for the HTTP Proxy.

Proxy Login Password:

Type the password for the HTTP Proxy.

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Proxy Port:

Set port number of Proxy.

4.13.4 SAMBA Sever

The device also can send video stream to specified SAMBA server.

FTP Server	TCP Server	HTTP Server	SAMBA Server
Name	SA	AMBA Server	SAMBA Path
Name			(< 22 Digits)
SAMBA Server			(< 65 Digits) Test
SAMBA Login Na	ime		(< 22 Digits)
SAMBA Login Pa	assword		(< 22 Digits)
SAMBA Path			(< 65 Digits)

Name:

User can specify multiple HTTP servers as wish. Therefore, user needs to specify a name for each HTTP server setting.

SAMBA Server:

Type the server name or the IP address of the SAMBA server.

Test:

Check the SAMBA server whether this account is available or not.

SAMBA Login name:

Type the user name for the SAMBA server.

SAMBA Login Password:

Type the password for the SAMBA server.

SAMBA Path:

Set working directory path of SAMBA server.



4.14 Event Schedule- Configure the event schedule

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

4.14.1 Setting

Name	Enable Type Weekday Start Duration Trigger by Prefix Action	
Name		
Enable		
Type	Event Trigger Schedule Trigger, Interval 60 (Seconds)	
Enable Time	♥ Sun ♥ Mon ♥ Tue ♥ Wed ♥ Thu ♥ Fri ♥ Sat Start from 0 ♥ 0 ♥, Duration 24 ♥ 0 ♥ ((max 168:00 hours))	
Trigger by	Sensor Active V 🖸 Motion Area V	
Record File Prefix	(0 ~ 20 Digits)	
Action	Go	

Name:

Name of the Event or Schedule.

Enable:

Enable or disable this Event or Schedule.

Type:

Event trigger or Schedule trigger.

Enable Time:

Define the feasible time slot.

Trigger by:

Select the triggered sources.



Action:

Define the actions once event triggered.

Example 1:

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. Trigger by: Motion Area (Added in Object Detection page)
- 4. Action : Send FTP (Add in Event Server -> FTP Server page)

Name	
Enable	⊙Yes ○No
Туре	Schedule Trigger, Interval 60 (Seconds)
Enable Time	Sun Mon Tue Wed Thu Fri Sat Start from 0 • 0 • ((max 168:00 hours))
Trigger by	Sensor Active V Motion Area
Record File Prefix	(0 ~ 20 Digits)
Action	Go ● Preset O Tour O Voice Alert, Duration 5 (0~86400 Seconds) Alarm Out, Duration 5 (0~86400 Seconds)



Example 2:

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 work in 12 hours, so it will stop on Saturday 06:00.
- 3. Trigger by : Motion Area (Added in Object Detection page)
- 4. Action : Send e-mail (Add in E-Mail page)
 - i. To email address: You need to input the receiver email address.
 - ii. Subject: You could specify the email subject.
 - iii. Message: You could specify the email content.

Setting Record			
Name	sent to mail		
Enable	Yes ○ No No		
Туре			
Enable Time	Sun Mon Tue Wed Thu Fri Sat Start from 0 0 , Duration 24 0 ((max 168:00 hours))		
Trigger by	Sensor Active 💟 🗌 Motion Area 💟		
Record File Prefix	(0 ~ 20 Digits)		
Action	Go Preset Tour Tour Cover Alert, Duration 5 Alarm Out, Duration 5 Alarm Out, Duration 5 Send FTP airftp Send FTP Send TCP Send HTTP Send HTTP Send E-Mail To email address Wayne.wu@airlive.com Subject Event Message WN02600HD Attached file IR LEDs (Night Vision) Night Mode 0 (0~86400 Seconds)		
Add Modify Delete			



Example 3:

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

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

Name	trigger_voice_alert
Enable	⊙ Yes ○ No
Туре	
Enable Time	Sun Mon Tue Wed Thu Fri Sat Start from 0 0 , Duration 24 0 ((max 168:00 hours))
Trigger by	Motion Area
Record File Prefix	(0 ~ 20 Digits)
Action	 ✓ Voice Alert, Duration 5 (0~86400 Seconds) Send FTP ✓ Send TCP ✓ Send HTTP ✓ Send E-Mail Send SD Send Samba ✓
Add	Modify Delete


4.14.2 Record

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

Setting Record	
Record File Type	Profile1 h264 / 1600x1200 💙
Record File Prefix	(0 ~ 20 Digits)
Pre Trigger Duration	5 (0 ~ 20 Seconds)
Best Effort Duration	30 (1 ~ 60 Seconds)
Max File Size	1024 (256 ~ 3072 Bytes)



Record File Type:

Choose JPEG, AVI-JPEG, or AVI-H.264 file format.

Record File Prefix:

Define the prefix of recorded filename.

JPEG Picture Numbers:

Define the picture numbers of JPEG to be sent out.

Pre-Trigger Duration:

Define the maximum duration of pre-alarm.

Post-Trigger Duration:

Define the maximum duration of post-alarm.

Max File Size:

Define the maximum buffer size of record file.

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5

Troubleshooting & FAQ

5.1 Monitor the Image Section

Question	Answer or Resolution		
Features			
The video and audio codec is adopted in the device.	The device utilizes H.264, MPEG4 and JPEG triple compression to providing high quality images. Where H.264 and MPEG4 are standards for video compression and JPEG is a standard for image compression. The audio codec is defined as AMR for 3GPP and G.711/G.726		
The maximum number of users access the device simultaneously.	for RTSP streaming. The maximum number of users is limited to 20. However, it also depends on the total bandwidth accessed to this device from clients. The maximum data throughput of the device is around 20~25Mbps for UDP mode and 10Mbps for HTTP mode. Therefore, the actual number of connected clients is varying by streaming mode, settings of resolution, codec type, frame rate		
The device can be used outdoors or not.	and bandwidth. Obviously, the performance of the each connected client will slow down when many users are logged on. The device is not weatherproof. It needs to be equipped with a weatherproof case for outdoors using. However, equipped with a weatherproof case might disable the audio function of the		
	device. 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. If the problem is not solved, the device might be faulty. Contact your dealer for further help. 		
The network cabling is required for the device. The device will be installed and work if a	The device uses Category 5 UTP cable allowing 10 and/or 100 Base-T networking. If a firewall exists on the network, port 80 is open for ordinary data communication. The HTTP port and RTSP port need to be		



firewall exists on the	anonad on the firewall or NAT router			
network.	opened on the firewall or NAT router.			
The username and	Username = admin and password = airlive .			
password for the first	Note that it's all case sensitivity.			
time or after factory				
default reset				
Forgot the username	Follow the steps below.			
and password	1. Restore the factory default setting by press pressing and			
	holding down more than 3 seconds on the device.			
	2. Reconfigure the device.			
Forgot the IP address	Check IP address of device by using the IPWizard II program or			
of the device.	by UPnP discovery.			
IPWizard II program	• Re-power the device if cannot find the unit within 1 minutes.			
cannot find the device.	 Do not connect device over a router. IPWizard II program 			
	cannot detect device over a router.			
	• If IP address is not assigned to the PC which running IPWizard			
	II program, then IPWizard II program cannot find device. Make			
	sure that IP address is assigned to the PC properly.			
	 Antivirus software on the PC might interfere with the setup 			
	program. Disable the firewall of the antivirus software during			
	setting up this device.			
	 Check the firewall setting of your PC or Notebook. 			
Internet Explorer does	Make sure that your Internet Explorer is version 6.0 or later. If			
not seem to work well	you are experiencing problems, try upgrading to the latest			
with the device	version of Microsoft's Internet Explorer from the Microsoft			
	webpage.			
IPWizard II program	Network may have trouble. Confirm the parameters and			
fails to save the	connections of the device.			
network parameters.				
	UPnP NAT Traversal			
Can not work with NAT	Maybe NAT router does not support UPnP function. Please			
router	check user's manual of router and turn on UPnP function.			
	 Maybe UPnP function of NAT router is not compatible to the IP 			
	camera. Please contact your dealer to get the approval routers			
	list.			
Some IP cameras are	 Maybe too many IP cameras have been installed on the LAN, 			
working but others are	and then NAT router is out of resource to support more cameras.			
failed	You could turn off and on NAT router to clear out of date			
	information inside router.			



Access this device	
Cannot access the	Maybe the IP Address of the Network Camera is already being
login page and other	used by another device or computer. To confirm this possible
web pages of the	problem, disconnect the Network Camera from the network first,
Network Camera from	and then run the PING utility to check it out.
Internet Explorer	Maybe due to the network cable. Try correcting your network
	cable and configuration. Test the network interface by
	connecting a local computer to the Network Camera via a
	crossover cable.
	 Make sure the Internet connection and setting is ok.
	• Make sure enter the IP address of Internet Explorer is correct.
	If the Network Camera has a dynamic address, it may have
	changed since you last checked it.
	 Network congestion may prevent the web page appearing
	quickly. Wait for a while.
	The IP address and Subnet Mask of the PC and Network
	Camera must be in the same class of the private IP address on
	the LAN.
	 Make sure the http port used by the Network Camera,
	default=80, is forward to the Network Camera's private IP
	address.
	The port number assigned in your Network Camera might not
	be available via Internet. Check your ISP for available port.
	• The proxy server may prevent you from connecting directly to
	the Network Camera, set up not to use the proxy server.
	 Confirm that Default Gateway address is correct.
	 The router needs Port Forwarding feature. Refer to your
	router's manual for details.
	 Packet Filtering of the router may prohibit access from an
	external network. Refer to your router's manual for details.
	Access the Network Camera from the Internet with the global
	IP address of the router and port number of Network Camera.
	Some routers reject the global IP address to access the
	Network Camera on the same LAN. Access with the private IP
	address and correct port number of Network Camera.
	• When you use DDNS, you need to set Default Gateway and
	DNS server address.
	• If it's not working after above procedure, reset Network Camera
	to default setting and installed it again.



	• If the problem is not called the Network Compre might be		
	• If the problem is not solved, the Network Camera might be		
	faulty. Contact your dealer for further help.		
Image or video does	• The first time the PC connects to Network Camera, a pop-up		
not appear in the main	Security Warning window will appear to download ActiveX		
page.	Controls. When using Windows XP, or Vista, log on with an		
	appropriate account that is authorized to install applications.		
	 Network congestion may prevent the Image screen from 		
	appearing quickly. You may choose lower resolution to reduce		
	the required bandwidth.		
Check the device's	Go to C:\Windows\Downloaded Program Files and check to see		
ActiveX is installed on	if there is an entry for the file "IPCamera Control". The status		
your computer	column should show "Installed". If the file is not listed, make sure		
	your Security Settings in Internet Explorer are configured		
	properly and then try reloading the device's home page. Most		
	likely, the ActiveX control did not download and install correctly.		
	Check your Internet Explorer security settings and then close		
	and restart Internet Explorer. Try to browse and log in again.		
Internet Explorer	Setup the IE security settings or configure the individual settings		
displays the following	to allow downloading and scripting of ActiveX controls.		
message: "Your	to allow downloading and scripting of Actives controls.		
current security			
settings prohibit			
downloading ActiveX			
controls".			
	. Might be accured from the firewall protection. Check the Internet		
	firewall with your system or network administrator. The firewall		
externally .	may need to have some settings changed in order for the device		
	to be accessible outside your LAN.		
	• Make sure that the device isn't conflicting with any other web		
	server running on your LAN.		
	• Check the configuration of the router settings allow the device		
	to be accessed outside your local LAN.		
	Check the bandwidth of Internet connection. If the Internet		
	bandwidth is lower than target bit rate, the video streaming will		
	not work correctly.		
The unreadable	Use the operating system of the selected language. Set the		
characters are	Encoding or the Character Set of the selected language on the		
displayed.	Internet Explorer.		
Frame rate is slower	 The traffic of the network and the object of the image affect 		



than the setting.	the frame rate. The network congestion causes frame rate
	slower than the setting.
	Check the bandwidth of Internet connection. If the Internet
	bandwidth is lower than target bit rate, the video streaming will
	not work correctly.
	 Ethernet switching hub can smooth the frame rate.
Blank screen or very	 Your connection to the device does not have enough
slow video when audio	bandwidth to support a higher frame rate for the streamed image
is enabled.	size. Try reducing the video streaming size to 160x120 or
	320x240 and/or disabling audio.
	 Audio will consume 32 kbps. Disable audio to improve
	video. Your Internet connection may not have enough bandwidth
	to support streaming audio from the device.
Image Transfer on	 Default Gateway and DNS server address should be set up
e-mail or FTP does not	correctly.
work.	 If FTP does not work properly, ask your ISP or network
	administrator about the transferring mode of FTP server.
Pan/Tilt does not work.	Click [Refresh] on the Internet Explorer when the
(including Click to	communication stops with the device. The image will refresh.
Center and Preset	 Other clients may be operating Pan/Tilt.
Positioning)	 Pan/Tilt operation has reached the end of corner.
Pan/Tilt does not work	There may be a slight delay when you are using the Pan/Tilt
smoothly.	feature in conjunction with streaming audio and video. If you find
	that there is a significant delay while panning or tilting the
	camera, try disabling the audio streaming and/or reducing the
	video streaming size.
	Video quality of the device
The focus on the	 The lens is dirty or dust is attached. Fingerprints, dust,
Camera is bad.	stain, etc. on the lens can degrade the image quality.
The color of the image	Adjust White Balance.
is poor or strange.	 To insure the images you are viewing are the best they can
	be, set the Display property setting (color quality) to 16bit at least
	and 24 bit or higher if possible within your computer.
	•The configuration on the device image display is incorrect.
	You need to adjust the image related parameters such as
	brightness, contrast, hue and sharpness properly.
Image flickers.	Wrong power line frequency makes images flicker. Make
	sure the 50 or 60Hz format of your device.
	 If the object is dark, the image will flicker. Make the
L	



	condition around the Camera brighter.		
Noisy images occur.	The video images might be noisy if the device is located in a		
	very low light environment. Make the condition around the		
	camera brighter or turn the White-light LED on.		
Miscellaneous			
Cannot play the	Have installed Microsoft®'s DirectX 9.0 or later and use the		
Cannot play the recorded ASF file	Have installed Microsoft®'s DirectX 9.0 or later and use the Windows Media Player 11.0 or later to play the AVI filed		

5.2 PING

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 the device installed or if the IP address conflicts with any other devices over the network.

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

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

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



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



5.3 Bandwidth 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 Resolution	Average range of data sizes for JPEG mode	Average bit rate for MPEG4 mode	Average bit rate for H.264 mode
160 x 120	3 ~ 6k byte	64kbps~256kbps	32kbps~192kbps
(QQVGA)	per frame	@ 30fps	@ 30fps
320 x 240	8 ~ 20k byte	NA	192kbps~512kbps
(QVGA)	per frame		@ 30fps
640 x 480	20 ~ 50K	NA	384kbps~1536kbps
(VGA)	byte per frame		@ 30fps
1280x720	100 ~ 200k	NA	512kbps~3076kbps
(HD)	byte per frame		@ 15fps
1600x1200		NA	512kbps~3076kbps
(UXGA)			@ 15fps

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



5.4 Specification Table

Me	odel	CW-720	
	Camera Type	Indoor Cube Type	
	Image Sensor	1/4" 1.3 MegaPixel CMOS sensor	
	Sensor Resolution	1280X720	
		Board Lens	
	Lens Type	4.3mm	
	Night Vision	Yes	
	Max IR Distance	None	
Camera	Minimum Illumination	0 Lux with LEDs on	
	Mechanical IR-Cut Filter	None	
	Auto Iris	None	
	Viewing Angle	45°50' (H)	
	Viewing Angle	28°40' (V)	
	Pan/Tile Control	None	
	Analog Video Out	None	
Video		H.264	
	Video Compression	MPEG4	
		MJPEG	
	Video Profile	20	
		1280x720 @ 30 fps	
	Resolution and Frame	640x480 @ 30 fps	
	Rate	320x180 @ 30 fps	
		160x90 @ 30 fps	
		Multi-profile streaming	
		Streaming over UDP, TCP, or HTTP	
		M-JPEG streaming over HTTP	
	Streaming	(for non IE browser)	
		3GPP mobile view	
		Configurable frame rate and bandwidth	
		Support both CBR and VBR	
	Design of between	ROI	
	Region of Interest Image Processing	Up to 5 configurable region AE, AWB	
	inage i locessing		



		Noise reduction	
		Color, brightness, sharpness, contrast, Hue	
		Mirror/Flip	
		Privacy Masks	
		Text, time and date OSD	
	Digital Zoom	10X	
	Audio Encoder	RTSP: G.711 64kbps, G.726 32kbps	
Audio	Addio Effeoder	3GPP: AMR	
Audio	Audio Streaming	Two-way	
	Audio Input/Output	Built-in Microphone and Speaker port	
	Ethernet	One RJ45 Port; IEEE 802.3u Compliant 10/100 Mbps Fast Ethernet with Auto-MDIX	
	Wireless	802.11 n	
Network	Supported Protocols	TCP/IP, UDP, ICMP, DHCP, NTP, DNS, DDNS, SMTP, FTP, HTTP, HTTPs, Samba, PPPoE, UPnP, Bonjour, RTP, RTSP and RTCP	
	Security	Password protection	
		IP filter	
		HTTPS	
	Users	Up to 20 simultaneous users	
	Power LED	Amber Color	
LED and Button	Link/Act. LED	Green Color	
	Reset Button	Reboot and Factory Default (Push and Hold Over 8 Sec)	
General	Network Processor	DSP Base	
	System ROM	16MByte NAND Flash	
	System RAM	128Mbyte DDR SDRAM	
	Power Supply	DC12V	
	Power Consumption	2 Watts Max.	
		RJ-45 10BaseT/100BaseTX	
	Connector	12V DC power jack	
		Speaker jack	
		Reset button	
	Environment	Operation: Temp: 0 ~ 40 Humidity: 20% ~ 80% non-condensing	



		Storage: Temp: 0 ~ 40 Humidity: 0% ~ 90% non-condensing	
	SD card slot	Micro SD	
	Dimension	HxWxD:91x55x95 mm	
	Software	CamPro Express 64,CamPro Professional	
	Soltware	Search & Installation-IP Wizard II	
	Event Triggers	Motion detection	
	L vent mggers	External input via DI interface	
	Motion Detection	10	
		FTP or NAS file upload	
	Event handler	E-mail alter	
	Event nanuei	HTTP, and TCP notification	
		DO (digital output) alarm	
	UPNP Yes		
System Integration	Application	ONVIF	
oystem integration	Programming Interface	Open API for software integration	
		SDK	
	Video Buffer	Pre- and post- alarm buffering	
	Alarm Triggers	Intelligent video motion detection and external input	
		File upload via FTP or email	
		Notification via email, HTTP, and TCP	
	Alarm Events	External output activation	
		Save to SD card	
		Audio alerting output	
	Continuous recording	Yes	
	OS	Windows® XP, Vista, 7	
Viewing System	Browser	IE 6.0 or later, Firefox 2.0 or later, Safari	
Viewing Oystein	Cell Phone	With 3GPP player	
	Video Player	VLC, Quick Time, Real Player, Core Player	



5.5 Configure Port Forwarding Manually

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

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

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

(1) Assign a local/fixed IP address to your device

The device must be assigned a local and fixed IP Address that allows it to be recognized by the router. Manually setup the device with a fixed IP address, for example, *192.168.1.100*.

(2) Access the Router with Your Web browser

The following steps generally apply to any router that you have on your network. The D-Link DI-624 is used as an example to clarify the configuration process. Configure the initial settings of the router by following the steps outlined in the router's **Quick Installation Guide**.

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



Air Liv	e			WN-300R	Wirele
Router Setup	Status				
Setup Wizard	Internet	Connection Method:	PPPoE		
LAN		Connection Status:	Active		
		Internet IP Address	61.229.42.196)	
Mode		Wan MAC Address:	00:c0:02:ff:c8:15		
Password				Connection Deta	iils
	LAN	IP Address:	192.168.10.254		
Status		Network Mask:	255.255.255.0		
+ Wireless		DHCP Server:	On		
1 10101030		MAC Address:	00:C0:02:FF:C8:1	4	

Your WAN IP Address will be listed here.

Note: Because a dynamic WAN IP can change from time to time depending on your ISP, you may want to obtain a Static IP address from your ISP. A Static IP address is a fixed IP address that will not change over time and will be more convenient for you to use to access your camera from a remote location. If you could not get a Static IP address from your ISP, the DIPS[™] or DDNS is a solution alternatively. Please refer to Appendix G for more information.

(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. Virtual Server is accessed by clicking on the **Advanced** tab of the router screen.

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., **192.168.1.100**, for example) in the **Private IP** field.



• If you are using the default camera port settings, enter **80** into the **Public** and **Private Port** section, click **Apply.**

• Scheduling should be set to Always so that the camera images can be accessed at any time.

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

Important: 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.



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.



5.6 DDNS

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, and 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: http://www.dyndns.org/
- (2). Click "Account"





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

🔿 DynE	DNS	
	About	Services
My Account	Login	
Create Account	– Account Login ––––	
Login	Account Login	Username:
Lost Password?		
	1	
Search		
Search		

- (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





O DynD	DNS			
	About	Services	Account	Supp
My Account	Create Your	DynDNS Acc	ount	
Create Account		····· •··· •- ···· •		
Login	Please complete the f	orm to create your tr	ee DynDNS Accoun	ιτ.
Lost Password?	-User Information-			
	Use	rname:		
Search	Email A	ldress:		Instructions to
	Confirm Email A	ldress:		
Search	Pas	sword:		Your password not choose a p
	Confirm Pas	sword:		
	-About You (option	nal)		

-Terms 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.

Policy Last Modified: February 6, 2006	-
1. ACKNOWLEDGMENT AND ACCEPTANCE OF TERMS OF SERVICE	
All services provided by Dynamic Network Services, Inc. ("DynDNS") are provided to you (the "Member") under the Terms and Conditions set forth in this Acceptable Use Policy ("AUP") and any other operating rules and policies set forth by DynDNS. The AUP comprises the entire agreement between the Member and DynDNS and supersedes all prior agreements between the parties regarding the subject matter contained herein. BY COMPLETING THE REGISTRATION PROCESS AND CLICKING THE "Accept" BUTTON, YOU ARE INDICATING YOUR AGREEMENT TO BE BOUND BY ALL OF THE TERMS AND CONDITIONS OF THE AUP.	
	_
I agree to the AUP: Turill poly service and (1) Click these two options	
I will only create one (1) free account:	

-Next Step-

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)

Create Account



(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.

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

🎯 Dyn D	DNS [°]			User:	Lost Pa:	Pass:
	About	Services	Account	Support	News	
My Account	Account Co	nfirmed				
Create Account						
Login	The account kkkkk has	been confirmed. Yo	ou can now <u>login</u> and	start using your acco	unt.	
Lost Password?	Be informed of new servi Once there, you may sus	· -				· -

(6). Enter the web page <u>http://www.dyndns.org/</u> 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".

		About	Services	Account	Support	Ne	ws	
My Account	Ace	count Sum	mary for iva	nkk				
My Services								
Account Settings	My	Services		Billing			Account Settings	
Billing	4		Sify, purchase, and ir services.		date your billing formation, complete	ia.	Update your ema	
My Cart	1			pu	rchase, and view in	wolces,	your account.	
Q.Rems	10	Zones		View Shopp	ing Cart		Change Email Address	
	DynDl	About	Services	Account	Support	News	<u>Mu Services - Mu Get</u>	- <u>Leg. Sv</u>
Services	,		Services	Account	Support	News	Mr. Services - Mr. Seri	- Les Out
		About Services						- <u>kes Svi</u>
Services	es	About Services Ne offer you super	Services for domain name services, d-class e-mail services,	:es (DNS), high qu	alty domain	What DynDNG -	Mr.Services - Wr. Carl why you should choose us <u>enview</u> - a peak behind the curtain	- 109.004
Services DNS Servic	es gistration	About Services Ne offer you super management, work monitoring. All of or	ior domain name servio d-class e-mail services, ar services include fre r	ces (DNS), high qu web redirection, - e technical supp	ality domain 1 and network 1 ort by e-	What DynDNG -	why you should choose us	- 100 004
Services DNS Servic Domain Rep	es gistration ates	About Services We offer you super management, work monitoring. All of or mail or phone whe	ior domain name servic d-class e-mail services,	ces (DNS), high qu web redirection, - e technical supp ly trained enginee	ality domain 1 and network 1 ort by e-	What DynDNG -	why you should choose us	- <u>kog Out</u>
Services DNS Servic Domain Rey SSL Certific	es gistration rates rvices anitoring	About Services We offer you super management, work monitoring. All of or mail or phone whe a call center reading	ior domain name servic d-class e-mail services, ur services include fine re you speak to a high g a script off of a scree	ces (DNS), high qu web redirection, - e technical supp ly trained enginee	ality domain 1 and network 1 ort by e-	What DynDNG -	why you should choose us	- Log Out
Services DNS Servic Domain Reg SSL Certific MailHop Se	es gistration :ates rvices onitoring	About Services We offer you super management, work monitoring. All of or mail or phone whe	ior domain name servic d-class e-mail services, ur services include fine re you speak to a high g a script off of a scree	ces (DNS), high qu web redirection, - e technical supp ly trained enginee	ality domain 1 and network 1 ort by e-	What DynDNG -	why you should choose us	- Log Out
Services DNS Servic Domain Reg SSL Certific Mail-lop Se Network M	es gistration :ates rvices onitoring	About Services We offer you super management, work monitoring. All of or mail or phone whe a call center reading	ior domain name servic d-class e-mail services, ur services include fine re you speak to a high g a script off of a scree	ces (DNS), high qu web redirection, - e technical supp ly trained enginee	ality domain 1 and network 1 ort by e-	What DynDNG -	why you should choose us	- 109.204
Services DNS Servic Domain Res SSL Certific Mail-lop Se Network Mc URL Forwar Pricing M	es gistration :ates rvices onitoring	About Services We offer you super management, work monitoring. All of or mail or phone whe a call center reading	ior domain name servic d-class e-mail services, ur services include fine re you speak to a high g a script off of a scree	ces (DNS), high qu web redirection, - e technical supp ly trained enginee	ality domain 1 and network 1 ort by e-	What DynDNG -	why you should choose us	- 669.204
Services DNS Servic Domain Rey SSL Certific Mail-lop Se Network Mc URL Porwar Pricing M	es gistration reces a context of a context o	About Services Ne offer you super management, work monitoring. All of ou aid or phone whe a call center readin DNS Service	lor domain name servic d-class e-mail services, ur services include free re you speak to a high g a script off of a scree	ces (DNS), high qu web redirection, e technical supp ly trained enginee n.	ally domain and network ort by e- r rather than	ttla: Daribbi Technology Ovi	why you should choose us entery - a peak behind the curtain	- 663.004
Services DNS Servic Domain Re SSL Certific Mail-top Se Network M URL Forwar Pricing Search	es gistration reces a context of a context o	About Services We offer you super management, work monitoring. All of or mail or phone whe a call center reading	Ior domain name servic d-class e-mail services, ur services include fine are you speak to a high g a script off of a scree IS	ces (DNS), high qu web redirection, e technical supp ly trained enginee n.	ality domain 1 and network 1 ort by e-	ttlas: Danibitis	why you should choose us entery - a peak behind the curtain	- 662.004
Services DNS Servic Domain Reg SSL Certific Mail-lop Se Network Mc URL Porwar Pricing Mail Mail Pricing	es gistration reces a context of a context o	About Services Ne offer you super management, work monitoring. All of or nail or phone whe a call center readin DNS Service	Ior domain name services, cr class e-mail services, cr services include free re you speak to a high g a script off of a scree ses	ces (DNS), high qu web redirection, e technical supp ly trained enginee n.	ally domain and network ort by e- r rather than	ttfas: Danibitis	why you should choose us entery - a peak behind the curtain	



(10). Click the "Get Started".

Dynamic DNS

Dynamic DNS (DDNS) allows you to create a hostname that points to your dynamic IP or static IP address or URL. We also provide an update mechanism which makes the hostname work with your dynamic IP address. **We continue to offer this service free** to the Internet community as we have done so **for nearly 10 years**.

Capabilities and Features

- Get five (5) hostnames in <u>88 available domains</u> for free.
- Create wildcard CNAME *.yourhost.dyndhs.org for yourhost.dyndhs.org.
- Forward web requests or mark host offline for maintenance or downtime.
- Configure MX records for flexible mail routing.
- Update host using ddns update clients for a wide variety of platforms.
- Modify DNS TTL values for fast propagation or reliable static IP caching.
- Deliver your DNS records to 5 DNS servers in 5 tier-1 datacenters around the globe.
- Query volume up to 648,000 queries/month

Our free industry-leading e-mail support is ready to help you setup your dynamic or static DNS so you can host a website,
remotely connect to your machine, and run a mail server. We also offer other premium features with our Account Upgrade service.

(11). We could create a domain name without any charge at this step. First, we input the host name. (Pink No.1) Then we pick a domain that is easy to remember. (Pink No.2) The 3rd step is to click "Offline Hostname" from Service Type. (Pink No.3) Finally, click the "Create Host" to submit the domain name information and finish DDNS application. (Pink No.4)

Add New Hostname		<u>↑</u> Host Services
1	count Upgrades in your account. You cannot use some of our Host Servio e this form full-functional and will add several other features. <u>Learn Mor</u>	
Hostname:	amtk dyndns.org 🔽 🔶 2	
- Wildcard:	Yes, alias "*.hostname.domain" to same settings.	
Service Type:	 C Host with IP address C WebHop Redirect Offline Hostname 	
IP Address:	<u>Use auto detected IP address 118,168,38,166.</u> TTL value is 60 seconds. <u>Edit TTL</u> .	
	Please enter valid IP address (optional for Offline hostnames).	
Mail Routing:	□ Yes, let me configure Email routing.	
	Create Host	



:	Screenshot	
DynUmS Heat		No. 20104-000
Restored The	Annan Birgel Alben Sarah das Castl	
Service Tages	Research and an end of an end of an end of a second barries of the second barries of the second and the second of	
P Address	AN ADDRESS OF A DESCRIPTION OF A DESCRIP	
	Constant and	
Ball Balling	The second vector is not not and inform	



4. Setup the DDNS and PPPoE of Networked 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. Then the external users could browse the Networked Device by the input of their domain name.

5.7 Power Line Frequency

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



India	230V	50 Hz	
Italy	230V	50 Hz	
Japan	100V	50/60 Hz*	*Eastern Japan 50 Hz
			(Tokyo, Kawasaki, Sapporo,
			Yokohoma, and Sendai);
			Western Japan 60 Hz
			(Osaka, Kyoto, Nagoya,
			Hiroshima)
Malaysia	240V	50 Hz	
Netherlands	230V	50 Hz	
Portugal	230V	50 Hz	
Spain	230V	50 Hz	
Sweden	230V	50 Hz	
Switzerland	230V	50 Hz	
Taiwan	110V	60 Hz	
Thailand	220V	50 Hz	
United Kingdom	230V*	50 Hz	*Outlets typically
			controlled by adjacent
			switch.
			Though nominal voltage has
			been officially changed to
			230V, 240V is within
			tolerances and commonly
			found.
United States of	120V	60 Hz	
America			

5.8 3GPP Table

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

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

RTSP Port:

Port 554 is the default for RTSP service. 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.

5.9 UPnP

Use the following steps to enable UPnP settings only if your operating system of PC is running Windows XP.

Go to **Start > Settings**.

Click Control Panel





Click Add or Remove Programs



Click Add/Remove Windows Components







The following screen will appear:

Select Networking Services

Windows Components Wizard	
Windows Components You can add or remove components of Windows XP.	
To add or remove a component, click the checkbox. A shaded part of the component will be installed. To see what's included in Details. <u>Components:</u>	
🗌 🚅 Message Queuing	0.0 MB 🔼
MSN Explorer	13.2 MB
A Contract Networking Services	0.3 MB 🗩
By Other Network File and Frint Services	0.0 MB
🔽 🟥 Outlook Express	0.0 MB 🞽
Description: Contains a variety of specialized, network-related s	ervices and protocols.
Total disk space required: 54.7 MB	
Space available on disk: 1926.8 MB	Details
(<u>B</u> ack	Next > Cancel

Select Universal Plug and Play

			box. A shaded box r included in a compo		
Subcomponer	nts of Networkir	ng Services:			
🗹 📇 Intern	et Gateway De	vice Discovery and	Control Client	0.0 MB	1
🗆 🚚 RIP L	istener			0.0 MB	
🗆 📮 Simple	e TCP/IP Servio	ces		0.0 MB	
				0.0.140	
🖉 📙 Unive	ersal Plug and P	lay		0.2 MB	
Description:	Allows you to f		met connection shar and Play.		d
	Allows you to f software that u	find and control Inter			



Click Details

Windows Components Wizard			
Windows Components You can add or remove compo	nents of Windows XP.		E
To add or remove a componen part of the component will be in Details. Components:			
Message Queuing		0.0 MB	~
MSN Explorer		13.2 MB	-
🗹 🛬 Networking Services		0.3 MB	
🔲 🚔 Other Network File and	0.0 MB		
Contract Con	0.0 MB	~	
Description: Contains a variety Total disk space required: Space available on disk:	of specialized, network 54.7 MB 1926.8 MB	related services and protoc	
	< <u>B</u> ack	< <u>N</u> ext >	Cancel

Click Next



Please wait while Setup configures the components.





Click Finish