

WL-1000CAM

Wireless-G Motion JPEG Camera

User's Manual



Declaration of Conformity We, Manufacturer/Importer OvisLink Corp. 5F., NO.6, Lane 130, Min-Chuan Rd., Hsin-Tien City, Taipei County, Taiwan	
In	Declare that the product Wireless-G Motion JPEG Camera AirLive WL-1000CAM is in conformity with accordance with 89/336 EEC-EMC Directive and 1999/5 EC-R & TTE Directive
<u>Clause</u>	Description
■ EN 300 328 v1.7.1 (2006-05)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission equipment operating in the 2.4GHz ISM band And using spread spectrum modulation techniques; Part 1 : technical Characteristics and test conditions Part2 : Harmonized EN covering Essential requirements under article 3.2 of the R&TTE Directive
 EN 301 489-1 V1.5.1 (2004-11) EN 301 489-17 V1.2.1 (2002-08) 	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic compatibility(EMC) standard for radio equipment and Services; Part 17 : Specific conditions for wideband data and HIPERLAN equipment
■ EN 50371:2002	Generic standard to demonstrate the compliance of low power Electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic field (10MHz – 300GHz) -General public
■ EN 60950-1:2001/A11 :2004	Safety for information technology equipment including electrical business equipment

■ CE marking

€€

<u>Manufacturer/Importer</u>

rert Albert Yeh Vice President

Signature : Name : Position/ Title :

(Stamp)

Date : 2008/2/13

AirLive WL-1000CAM CE Declaration Statement

Country	Declaration	Country	Declaration
cs	OvisLink Corp. tímto prohlašuje, že tento AirLive	lt	Šiuo OvisLink Corp. deklaruoja, kad šis AirLive WL-
Česky [Czech]	WL-1000CAM je ve shodě se základními	Lietuvių	1000CAM atitinka esminius reikalavimus ir kitas
	požadavky a dalšími příslušnými ustanoveními	[Lithuanian]	1999/5/EB Direktyvos nuostatas.
	směrnice 1999/5/ES.		
da	Undertegnede OvisLink Corp. erklærer herved,	nl	Hierbij verklaart OvisLink Corp. dat het toestel AirLive
Dansk [Danish]	at følgende udstyr AirLive WL-1000CAM	Nederlands [Dutch	WL-1000CAM in overeenstemming is met de
	overholder de væsentlige krav og øvrige	_	essentiële eisen en de andere relevante bepalingen
	relevante krav i direktiv 1999/5/EF.		van richtlijn 1999/5/EG.
de	Hiermit erklärt OvisLink Corp., dass sich das	mt	Hawnhekk, OvisLink Corp, jiddikjara li dan AirLive
Deutsch	Gerät AirLive WL-1000CAM in Übereinstimmung	Malti [Maltese]	WL-1000CAM jikkonforma mal-ħtiġijiet essenzjali u
[German]	mit den grundlegenden Anforderungen und den		ma provvedimenti oħrajn relevanti li hemm fid-
	übrigen einschlägigen Bestimmungen der		Dirrettiva 1999/5/EC.
	Richtlinie 1999/5/EG befindet.		
et	Käesolevaga kinnitab OvisLink Corp. seadme	hu	Az OvisLink Corporation kijelenti, hogy az AirLive
Eesti [Estonian]	AirLive WL-1000CAM vastavust direktiivi	Magyar	WL-1000CAM megfelel az 1999/05/CE irányelv
	1999/5/EÜ põhinõuetele ja nimetatud direktiivist	[Hungarian]	alapvető követelményeinek és egyéb vonatkozó
	tulenevatele teistele asjakohastele sätetele.	[]	rendelkezéseinek.
en	Hereby, OvisLink Corp., declares that this AirLive	pl	Niniejszym OvisLink Corp oświadcza, że AirLive WL-
English	WL-1000CAM is in compliance with the essential	-	1000CAM jest zgodny z zasadniczymi wymogami
	requirements and other relevant provisions of		oraz pozostałymi stosownymi postanowieniami
	Directive 1999/5/EC.		Dyrektywy 1999/5/EC.
es	Por medio de la presente OvisLink Corp. declara	pt	OvisLink Corp declara que este AirLive WL-1000CAM
Español	que el AirLive WL-1000CAM cumple con los	Português	está conforme com os requisitos essenciais e outras
[Spanish]	requisitos esenciales y cualesquiera otras	[Portuguese]	disposições da Directiva 1999/5/CE.
	disposiciones aplicables o exigibles de la	[i ontuguese]	
	Directiva 1999/5/CE.		
el	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ OvisLink Corp. ΔΗΛΩΝΕΙ	sl	OvisLink Corp izjavlja, da je ta AirLive WL-1000CAM
Ελληνική [Greek]	ΟΤΙ AirLive WL-1000CAM ΣΥΜΜΟΡΦΩΝΕΤΑΙ	Slovensko	v skladu z bistvenimi zahtevami in ostalimi
	ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ	[Slovenian]	relevantnimi določili direktive 1999/5/ES.
	ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ	[Slovenian]	
fr	1999/5/EK. Par la présente OvisLink Corp. déclare que	sk	OvisLink Corp týmto vyhlasuje, že AirLive WL-
	l'appareil AirLive WL-1000CAM est conforme aux	-	
i rançais (ritericit)		Slovenský [Slovak]	
	exigences essentielles et aux autres dispositions		príslušné ustanovenia Smernice 1999/5/ES.
it	pertinentes de la directive 1999/5/CE Con la presente OvisLink Corp. dichiara che	fi	OvisLink Corp vakuuttaa täten että AirLive WL-
-			
Italiano [Italian]	questo AirLive WL-1000CAM è conforme ai	Suomi [Finnish]	1000CAM tyyppinen laite on direktiivin 1999/5/EY
	requisiti essenziali ed alle altre disposizioni		oleellisten vaatimusten ja sitä koskevien direktiivin
h <i>.</i>	pertinenti stabilite dalla direttiva 1999/5/CE.		muiden ehtojen mukainen
	Ar šo OvisLink Corp. deklarē, ka AirLive WL-	-	Hér með lýsir OvisLink Corp yfir því að AirLive WL-
Latviski [Latvian]	1000CAM atbilst Direktīvas 1999/5/EK	isieńska [icelandic]	1000CAM er í samræmi við grunnkröfur og aðrar
	būtiskajām prasībām un citiem ar to saistītajiem		kröfur, sem gerðar eru í tilskipun 1999/5/EC.
	noteikumiem.		
sv	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	no	OvisLink Corp erklærer herved at utstyret AirLive WL-
Svenska	WL-1000CAM står I överensstämmelse med de	Norsk [Norwegian]	1000CAM er i samsvar med de grunnleggende krav
[Swedish]	väsentliga egenskapskrav och övriga relevanta		og øvrige relevante krav i direktiv 1999/5/EF.
	bestämmelser som framgår av direktiv		
	1999/5/EG.		

A copy of the full CE report can be obtained from the following address:

OvisLink Corp. 5F, No.6 Lane 130, Min-Chuan Rd, Hsin-Tien City, Taipei, Taiwan, R.O.C.

This equipment may be used in AT, BE, CY, CZ, DK, EE, FI, FR, DE, GR, HU, IE, IT, LV, LT, LU, MT, NL, PL, PT, SK, SI, ES, SE, GB, IS, LI, NO, CH, BG, RO, TR

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

FCC Caution

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

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. Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

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. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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Chapter 1: Product Information

1-1 Introduction

Thank you for choosing the Internet Camera. This Internet Camera sends live video through 10/100Mbps wired network to a web browser or camera viewer across Internet anywhere in the world! This compact, self-contained unit lets you keep an eye on your home, your kids, and your workplace—whatever's important to you.

How does the Camera do all of this? Unlike standard "web cams" that require an attached PC, the Internet Camera can connect directly to a network. The MJPEG video compression produces a high quality, high-frame rate, 640 x 480 video streams.

The included Camera Viewer utility lets you record the video to your local hard drive, "live" or on a predetermined schedule.

Use the instructions in this Guide to help you integrate the Camera into your network. These instructions should be all you need to get the most out of the Internet Camera.

1-2 Package Content

- One Internet Camera
- One Power Adapter
- One Camera Stand
- One Ethernet Cable
- One Quick Installation Guide
- One CD (Including Manual/Utility/Driver)
- One 2dBi Antenna

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

1-3 System Requirements

System requirement for PC, MAC or Notebook PC to access the Internet Camera are:

- OS System: Windows 98 , ME , 2000, XP + SP2, Server 2003
- IE Version: 6.0.29 + SP2 or above
- CPU: Intel Pentium III 750MHz above or Intel Celeron 1GHz above
- Memory Size: 128MB (256MB recommended)
- DirectX 9.0 or above
- VGA card with fully DirectX 9.0 supported.
- VGA Card Resolution: 800 x 600 or above

Chapter 2: Hardware Installation

2-1 LED and Focusing

The Camera head and its focus ring allow you to modify the aim and focus of the Camera. To adjust the Camera's focus, rotate the dark focus ring.

There are four LEDs indicating the camera status and networking status.

• Power

When the camera is power on, the LED will light.

• LAN

When the Internet Camera is linking to wired network, the LED is lighting. The LED is flashing when video is transmitted or received through wired network.

• WLAN

When the Internet Camera is linking to wireless network, the LED is lighting. The LED is flashing when video is transmitted or received through wireless network.



2-2 Camera Ports

The Camera features three ports and a Reset button.

• Power

The Power port is where you can connect the power adapter.

• LAN

The LAN port is where you can connect the Ethernet network cable.

• WLAN (Antenna Connector)

This round connection is standard Reverse SMA connector where any antennas with Reverse SMA connector can connect to the Internet Camera..

- Reset
- If problems occur with your Internet Camera, press the reset button with a pencil tip (for less than 2 seconds) and the Internet Camera will re-boot itself, keeping your original configurations.
- If problems persist or you experience extreme problems or you forgot your password, press the reset button for longer than 5 seconds and the Internet Camera will reset itself to the factory default settings (warning: your original configurations will be replaced with the factory default settings).



2-3 Installation Procedure

- 1. Unpack the Internet Camera package and verify that all the items listed in the Chapter 2 are provided.
- 2. Connect the Internet Camera to your network by attached the network cable from the switch/router to the UTP port of the Internet Camera.
- 3. Connect the power adapter to the Internet Camera and plug the power adapter to power outlet. The Internet Camera will be powered on. When the Internet Camera is ready, the Ready LED will light.
- 4. Make sure that you have installed correct VGA driver and DirectX 9.0 or above.

Note: It is highly recommended to use the power adapter shipped with the Internet Camera, do NOT use any other power adapter from any sources.

Chapter 3: Software Installation

Follow the simple steps below to run the Install Wizard to guide you quickly through the Installation process. The following installation is implemented in Windows XP. The installation procedures in Windows 2000/Server 2003 are similar.

- Insert the CD shipped along with the Internet Camera into your CD-ROM drive. The "Autorun.exe" program should be executed automatically. If not, run "Autorun.exe" manually from "Autorun" folder in the CD.
- The Install Wizard will show six selections, select the program you want to install or click "Exit" to install the program later. The following installation steps are the demonstration of "Install Administrator Utility & Camera Viewer".



3. The system will start the installation procedures. Click "Next" to continue installation.



4. If you wish to install the software program in an alternate location, click "Change"; otherwise click "Next" to move on to the next step.

Internet Ca	mera - InstallShield Wizard		X
	estination Location Ider where setup will install files.		
	Install Internet Camera to: D:\Program Files\Internet Camera		Change
InstallShield –		< Back Next :	Cancel

5. Click "Install" to start installing the program.

Internet Camera - InstallShield Wizard
Ready to Install the Program The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield

6. The system will install the program automatically.

Internet Camera - InstallShield Wizard	×
Setup Status	
The InstallShield Wizard is installing Internet Camera	
Installing	
D:\Program Files\Internet Camera\admin\admin.exe	
InstallShield	Cancel

7. Click "Finish" to complete the software installation.



8. "Administrator Utility" will be run automatically after installation. On the Internet Camera first page, the cameras found in the network are listed in the left window. Choose the one you want to configure and click "Setting Wizard" to proceed.



9. Please enter the default password "airlive" and click "OK" to login to the IP setup page.

Input the Passw	ord	
Name: Password:	admin ******) 📧

10. Internet Camera is working through the network (TCP/IP Protocol). The IP address and subnet mask setting must be correct, or you cannot access to the camera. The wizard program will detect the IP address status of your network automatically and suggest a free IP address for the Camera. You can accept the suggested value or enter the value manually. If you enter the value manually, please be aware that the "Subnet Mask" must be the same for both the camera and the PC. Click "Next" to apply the configuration.

OVISLINK Internet Camera Config Wizard v2.09			
Internet Camera Name:	AIRLIVE		
IP Address:	192 . 168 . 2 . 3		
Subnet Mask:	255 . 255 . 255 . 0		
Gateway:	192 . 168 . 2 . 1		
Video Port:	4321		
	Cancel		

11. This wizard will pop up a window to ask you if you want to run the "Camera Viewer" and see the video of the Camera immediately. Select "Yes" to run "Camera Viewer".

Run Camera Viewe	n 🔀
Do you want to Run	1 Camera Viewer ?
<u>Y</u> es	<u>N</u> o

12. The "Camera Viewer" will show the video automatically. Congratulations, you can use the camera through the network to view the video from now on.



Chapter 4: Using the Administrator Utility

The Administrator Utility allows users to search and setup the cameras located within the Intranet or on the Internet. From the utility, users can view all the information of the selected camera; furthermore, it provides a setting wizard, which can guide users to add the camera to the network easily and promptly.

There are two ways to run the Administrator Utility as follows.

- 1. Click "Start", select "Programs\IP Camera\Admin Utility" to run the utility.
- 2. Double click the "IP Camera Admin" icon to run the utility.

Once the utility is started, it will search all the cameras within the network. To do more settings, please refer to the description in the following sections.

OVISLINK Internet Camera v2.09	, 💶 🛛
Air Live	www.airlive.com
LAN Auto Discover I	nformation of Camera
	Firmware Version: v1.30 ■ Network Information IP: 192.168.2.3 Subnet Mask: 255.255.255.0 Gateway: 192.168.2.1 DNS Server: 168.95.1.1 Video Port: 4321 Web Port: 80 UPnP: Disable DDNS: Disable ■ Wireless Information Resolution: 320x240 E-Mail: leo.chen@airlive.com Detail Setting Setting Wizard

4-1 General Setting

OVISLINK Internet Camera v2.0	9 🗖 🗖 🔀
Air Live	www.airlive.com
MIT LIVE	Internet Camera Admin Software
LAN Auto Discover	Information of Camera
AIRLIVE	Firmware Version: v1.30
	Network Information
	IP: 192.168.2.3
	Subnet Mask: 255.255.255.0
	Gateway: 192.168.2.1
	DNS Server: 168.95.1.1
	Video Port: 4321
	Web Port: 80
	UPnP: Disable
	DDNS: Disable
	 Wireless Information
	Resolution: 320x240
	E-Mail: leo.chen@airlive.com
	Detail Setting Setting Wizard

LAN	
Auto Discover	Click the button will search the camera within the network.
Information of Camera	
Camera Information	It displays all information of the selected camera. The information includes Firmware Version, Network Information, IP Address, UPnP Setting, DDNS Setting, Resolution and E-mail setting, etc.
Camera Setting	
Detail Setting	Click "Detail Setting" to do more setting of the camera such as IP address, Resolution, password and firmware upgrade, etc.
Setting Wizard	Click "Setting Wizard" to setup the necessary setting for the camera.

4-2 Detail Setting

When you click the "Detail Setting", a screen will pop up for you to enter the "Administrator Name" and "Password". The default value is as follows.

Name: "Admin"

Password: "airlive"

OVISLINK Internet Camera v2.09	
Air Live'	(www.airlive.com) Internet Camera Admin Software
LAN Auto Discover I	nformation of Camera
AIRLIVE	 Firmware Version: v1.30 Network Information IP: 192.168.2.3 Subnet Mask: 255.255.255.0 Gateway: 192.168.2.1 DNS Server: 168.95.1.1 Video Port: 4321 Web Port: 80 UPnP: Disable DDNS: Disable Wireless Information Resolution: 320x240 E-Mail: leo.chen@airlive.com
	Detail Setting Setting Wizard
Input the Passwor	a 🛛 🔀
Name: admin Password:	OK

If the name and password you enter are correct, you can start to setup the camera.

4-2-1 Network Setting

Edit Internet Camera		
Network Settings Wireless S	ettings E-Mail Settings PPPoE Setti 💶 🕨	
DHCP :	C Enable 💿 Disable	
Camera Name:	AIRLIVE	
IP Address:	192. 168. 2. 3	
Subnet Mask:	255 . 255 . 0 . 0	
Gateway:	192 . 168. 2. 1	
DNS Server:	168 . 95 . 1 . 1	
Video Port:	4321	
Web Port:	80	
	Cancel	

Network Setting	
Internet Camera Name	The default camera name is "WL-1000CAM". It is recommended to
	name a meaningful name for the camera.
IP Address	Enter an unused IP Address within the IP address range used on your
	LAN. If the IP Address of your LAN is from the 192.168.2.1 to
	192.168.2.254, you can set an unused IP Address from the range for
	the camera, for example: 192.168.2.250.
Subnet Mask	The Subnet Mask field must match the subnet setting on your LAN. For
	example: 255.255.255.0.
Gateway	The Gateway is used to forward frames to destinations in a different
	subnet on the Internet. The Gateway setting must be the same with the
	gateway used by the PCs on your LAN.

DNS Server

DNS Server (Domain Name Server) that translates names to IP addresses. Set the same DNS Server as the PCs on your LAN.

Network Setting	
Video Port	The Video Port is used to transmit or receive the video streaming in the
	network. The default port setting is "4321". If you want to view the video
	from the camera, the port setting should be correct.
Web Port	This camera support web connection, the default web port is 80. Since
	the web server may use port 80, you can use a different port for the
	camera. If you change the web port from 80 to 8080, you must type
	http://192.168.2.3:8080 to connect the camera through the web
	browser.

4-2-2 Wireless Settings (*Wireless Model Only)

Edit Internet Camera		×
Network Settings Wireless Settings	E-Mail Settings PPPoE Settings F	TP Settings Date / Time Settings Resolut
Wireless Connection 💿 Enable	🔿 Disable	
Available Network		Network Information
SSID	Signal	
airlive	MEDIUM	Network Type
		SSID
		Channel
Refresh Connect Add	to Profile	BSSID
Profile List		Encryption
Profile N SSID Chan	nel Network Encryption	Signal Strength
Add Edit Delete Activate		
		Cancel OK

Utility will site survey automatically or you can press "Refresh" button to survey the AP router manually.

Available Network		
SSID	Signal	
Searching Please V	Vait.	
<		>
	1	
Refresh Connect	Add to Profile	

After site survey procedure, there will show existing AP SSID.

Available Ne	twork		
SSID		Signal	
airlive		MEDIUM	
<			>
Refresh	Connect	Add to Profile	

Then press "Connect" to connect AP router or press "Add to Profile" to configure the Wireless WEP and WPA encryption.

Available Ne	twork		
SSID		Signal	
airlive		MEDIUM	
1			
<			>
		1	
Refresh	Connect	Add to Profile	

Edit Profile	X
Profile Name	Profile_1
SSID	airlive
Channel	11 💌
Network Type	Infrastructure C Ad Hoc
Authentication Type	None
Encryption Type	None Open System Shared Key
WPA Pre-Shared Key	WPA-PSK WPA2-PSK
Key Length	WPANone
Key Format	C HEX C ASCII
Default Key	Key 1 💌
Key 1	********
Key 2	********
Key 3	********
Key 4	*******
	OK Cancel

There are WEP(Open System/Shared Key) ,WPA-PSK,WPA2-PSK and WPANone encryption settings. You can choose one to match AP router wireless settings.

After set the profile, Please remove the LAN cable then IP Camera will connect to AP router automatically.





You must configure the wireless settings from wired environment. Then you can remove the wired cable and start wireless connection.

4-2-3 E-Mail Setting

Edit Internet Camera
Network Settings Wireless Settings E-Mail Settings PPPoE Setti
Send a Test Email
Recipient E-Mail Address:
SMTP Server:
Sender E-Mail Address:
SMTP Authentication: C Enable 📀 Disable
Username:
Password:
,
Cancel

E-Mail Setting	
Recipient E-Mail Address	This camera supports "Snap Shot" and "Motion Detection" functions.
	You can snapshot a picture and send the picture by E-Mail. Enter the
	E-Mail Account for receiving the picture.
SMTP Server	Enter the SMTP Server for the E-Mail sending.
Sender E-Mail Address	Specified the e-mail address of the e-mail sender.
Authentication	Enable or Disable the SMTP Authentication function
Username	When Authentication is enabled, input the SMTP Username.
Password	When Authentication is enabled, input the password.
Send a Test Email	Press this button to send a test e-mail to your mailbox. You can use this
	function to test if your setting is correct.

4-2-4 PPPoE Settings

dit Internet Came	Ta			
Wireless Settings	E-Mail Setting	s PPPoE Settir	ngs FTP Sett	ings 🔳
ι	Enable	ি Disa	ble	
	MTU: 1	92		
	110. [-			
		Cance	el	OK

PPPoE Settings	
Enable/Disable	If enable the PPPoE function, IP Camera will use PPPoE for network
	connection first. The default value is "Disable".
Username	Enter the Username of PPPoE connection.
Password	Enter the Password of PPPoE connection
MTU	A maximum transmission unit (MTU) is the largest size packet or
	frame, specified in octets (eight-bit bytes), that can be sent in a
	packet or frame based network such as the Internet.

4-2-5 FTP Settings

Edit Internet Camera	
E-Mail Settings PPPoE Settings FTP Settings Date / Time Sett	in I
FTP Server: Image: Comparison of the server is a	
	Ж



FTP Port	Enter the port of the FTP server.
User Name	Specify the user account of ftp server.
Password	Specify the Password of your ftp account.
Remote Folder	Specify the folder of the ftp site that you want to store the video.
Passive Mode	If your Camera is under NAT, you usually need to enable this feature.

4-2-6 Date / Time Settings

Edit Internet Camera
PPPoE Settings FTP Settings Date / Time Settings Resolution
 ● Set Date/Time manually 2007/1/10 下午 07:37:42 ● ● NTP Server
Time Zone : (GMT +08:00) Taipei
Cancel



Time ZoneSelect the time zone that your camera put on.NTP ServerSpecify the IP Address of the NTP Server.

4-2-7 Resolution



Resolution	
Resolution	Select the desired video resolution format. Larger resolution requires
	more bandwidth. 640 x 480 is "VGA" format. 320 x 240 is "CIF" format.
	176 x 144 is "QCIF" format.

4-2-8 Advanced Setting

Edit Inte	ernet Camera 🛛 🔀
Date /	Time Settings Resolution Advanced Settings Users TC
	UPnP
	C Enable C Disable
Γ	DDNS
	C Enable C Disable
	Provider: DynDNS
	Domain Name: ddns-host
	Account: ddns-account
	Password: *********
L	
	Cancel

Advanced Setting	
UPnP	When the UPnP function is enabled, the camera can be detected by
	UPnP compliant system such as Windows XP. The camera will be
	displayed in the Neighborhood of Windows XP, so you can directly click
	the camera to view the video through web browser.
DDNS	Many internet connections use a "Dynamic IP address", where the
	Internet IP address is allocated dynamically whenever the Internet
	connection is established. Internet users should know the IP Address of
	the camera when they want to connect to the camera every time. DDNS
	is designed to solve this problem, by allowing users to connect to your
	LAN using a domain name, rather than an IP address.
Enable/Disable	Enable or disable DDNS function of the camera.

Provider	Several companies provide DDNS service. This camera supports the service from DynDNS who is one of the DDNS providers.
Domain Name	The domain name given by DynDNS is "registername.dyndns.com". Enter the domain name that you register for the camera from DynDNS web site.
Account	Enter the login name for the DDNS service.
Password	Enter the password for the DDNS service.

4-2-9 Users

Edit Internet Camera				
Date / Time Settings R	esolution Advanced Settings	Users Tools About		••
Administrator				
Login Name:	Admin	New Password:		
Current Password:		Confirm New Password:		
User				
	User Name	Password	Confirm Password	
User Account 1	I			
User Account 2				
User Account 3				
User Account 4				
			Cancel	

Users	
Administrator	Setting the password of Administrator account
Current Password	Enter the current password of the camera.
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New Password	Enter the new password you want to use for the camera.
Confirm New Password	Retype the new password to confirm the setting.
User	Setting the user account and password. Your camera can support 4 user account.

4-2-10 Tools

Edit Internet Camera			X
Resolution Advanced	Settings Users		it ()
	Firmware Upda		
	Reset to Defa	ult	
	LED Light OF	F	
		Cancel	ОК



Reset to Default	If you want to reset the camera, click this button. The default settings of
	the camera are as follows.
	Camera Name: "WL-1000CAM"
	IP Address: "192.168.2.3"
	Subnet Mask: 255.255.255.0
	Administrator Name: "Admin"
	Password: "airlive"
	Video Port: "4321"
	Web Port: "80"

4-2-11 About



About

Administrator Utility Version Display current Administrator Utility Version.

4-3 Setting Wizard

When you click the "Setting Wizard", a screen will pop up for you to enter the "Administrator Name" and "Password". The default value is as follows.

Name: "Admin"

Password: "airlive"

Input the Password	
Name: admin Password:	ОК

If the name and password you enter are correct, you can start to setup the camera.

Edit Internet Camera	×
Network Settings Wireless S	ettings E-Mail Settings PPPoE Setti
DHCP :	C Enable 📀 Disable
Camera Name:	AIRLIVE
IP Address:	192. 168. 2. 3
Subnet Mask:	255 . 255 . 0 . 0
Gateway:	192. 168. 2. 1
DNS Server:	168 . 95 . 1 . 1
Video Port:	4321
Web Port:	80
	Cancel

Setting Wizard	
Internet Camera Name	The default camera name is "WL-1000CAM". It is recommended to enter a meaningful name for the camera.
IP Address	The wizard will auto setup an available IP Address to the camera. For example: if the IP address of the network is 192.168.2.x, the wizard will search an unused IP Address from 192.168.2.1 to 192.168.2.250 and assign the camera an available IP Address.

	You are allowed to enter another IP Address to change the setting.
Subnet Mask	The wizard will auto search the Subnet Mask setting of the network and set the camera in the same Subnet Mask.
	You can enter another Subnet Mask to change the setting.
Gateway	The wizard will auto search the Gateway setting of the network and set the camera to use the same Gateway.
	You can enter another Gateway to change the setting.
Video Port	It defines the video stream port. The default value is "4321".
Cancel	Click "Cancel" to stop wizard setting.
Finish	Click "Finish" to complete the camera setting.

Run Camera Viewer 🛛 🛛 🛛	
Do you want to Run Camera Viewer ?	
<u>\</u> es	<u>N</u> o

When you finish the camera setting, you can click "Ok" to run the "Camera Viewer" immediately or click "Cancel" to run the "Camera Viewer" later.

Chapter 5: Using the Camera Viewer

The Camera Viewer Utility allows users to view video up to four cameras. It also allows users to manual/schedule recording video and playback the video file. The status of camera viewing such as frame rate, video received, and etc. are also recorded in time.

There are three ways to run the Camera Viewer Utility as follows.

- 1. Click "Start", select "Programs\IP Camera\Camera Viewer" to run the utility.
- 2. Double click the "IP Camera Viewer" icon to run the utility.
- 3. Click "Setting Wizard" from Administrator Utility and follow the instructions in the utility.

5-1 Panel Introduction

In the beginning when you start the Camera Viewer, you would see a Control Panel and a four division Viewer window.



5-2 Camera Buttons





5-3 Camera Status

There is a status bar shown different color to indicate the status of each Internet Camera.



Camera Status

YELLOW

It means that there is no camera set to connect.
BLUE	It means that the camera is connected and playing the live video.
PINK	It means that the camera is not connected now.
RED	It means that the camera is recording.

5-4 Control Buttons



Control Buttons	
Play	The "Play" button is an intelligent play user-interface. In the normal
	display mode and the Internet Camera is disconnected, clicking on the
	"Play" can make the viewer connect to the Internet Camera. In the
	playback mode, clicking on the "Play" can play the video in the normal
	speed.
Stop	The "Stop" button is an intelligent play user-interface. In the normal
	display mode and the Internet Camera is connected, clicking on the
-	"Stop" can make the viewer disconnect the camera. In the playback
	mode, clicking on the "Stop" can stop playing the video.
Pause	The "Pause" button provides you a way to pause the current video
	display. When the displaying video is paused, click on the "Play" again
	to resume the video display.
Forward	The "Forward" button to forward the speed of display when playback the

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5-5 Video Recording

This utility allows you record the video in AVI files. There are two ways of video recording – Manual Recording and Schedule Recording.

Manual Recording

You can manually record the video stream into an assigned video file.

Click "Record", then the viewer utility will start to record the video stream. You can assign the path in the setting dialog.(at section 7.8.4) Clicking "Stop" will stop recording.

Note: Before manual recording, you have to click the camera button to select the Internet Camera that you want to record first and make sure that the viewer is successfully connecting to the Internet Camera.

Schedule Recording

You can assign a schedule and let this viewer automatically recording the video stream. Please refer to Section 7.8 to see how to setup schedule for the recording. The file name of the recorded video file is the start time of recording. For example, the file name "IPCamera_2004-10-8-23-56-40.avi" means it

5-6 Change Resolution

The Internet Camera supports two resolution, 640x480 (VGA) and 320x240 (CIF). You can change the resolution of each Internet Camera by clicking the resolution button.

Note: Before changing the resolution of the Internet Camera, you have to select the Internet Camera



by clicking the camera button first. If you change the resolution of an Internet Camera, other clients who are viewing the same Internet Camera simultaneously will also see the video with the changed resolution, too.



5-7 View Four Cameras Simultaneously

Click the four division button can view the 4 cameras simultaneously in a four-division window.



5-8 Viewer Utility Setting

Click the "Setting" button (), then the setting window of the Internet Camera will pop up.

Note: When you want to change the settings such as IP Address, Video Port, etc. in the "Setting" option, you must disconnect the Internet Camera first by clicking the "Stop".

Internet	Сатега	Settings					? 🗙
Setting	Video	Recording	Status	General	About		
		Name:	AIRLIV	Έ			
		IP Address:	192.168	3.2.195			
		Video Port:	4321	*			
		Model:	WL100	00 🗸			
		Username:	admin				
		Password:					
			Dist	over			
					<u>O</u> K	Cana	el

5-8-1 Setting

nternet	Сатега	Settings				? 🗙
etting	Video	Recording	Status	General	About	
		Name:	AIRLIV	Æ	_	
		IP Address:				
		Video Port:	4321	*		
		Model:	WL100)0 🗸	_	
		Username: Password:	admin			
			Disc	over		
					<u>O</u> K	<u>C</u> ancel

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Setting	
Name	It is not required to fill the camera name for connecting camera. It is for users to identify the camera.
IP Address	IP address/Domain name of the Internet Camera.
Video Port	The number of service port used by the Internet Camera.
Model	Select "Internet Camera" (This camera only supports MJPEG).
Username	The user name for login into the Internet Camera. By default, the user name is "Admin".
Password	The password for login into the Internet Camera. By default, the password is "airlive".
Discover	Click "Discover", then camera auto-discover windows will pop up. The window will show all the discovered cameras on LAN environment for you to select.

5-8-2 Recording

You can setup schedule for the recording here. This utility will record the video stream in the assigned file folder according to the schedule automatically. The recorded video files are AVI format.

Note:

- 1. The utility will only start to record the video stream when this utility is running and is successfully connecting to the Internet camera in the beginning of the schedule.
- 2. The schedule setting of one-time or weekly schedule should not overlap, or the recording will fail.

Internet Camera Setti	ings			? 🛛
Setting Video Rec	ording Status	General	About	
🔲 Cycle Recording				
One-Time Schedules:				
				<u> </u>
				-
New	Edit		Delete	
Weekly Schedules:				
				<u>^</u>
				-
New	Edit		Delete	
		L	<u>O</u> K	<u>C</u> ancel

🗖 One-Time Schedule 🛛 ? 🗙		
One-Time S	chedule	
From: To:		20:21 🔹
	OK	Cancel

One-Time Schedule

Weekly Schedule	? 🔀
Weekly Schedule	
🗌 Sun 🥅 Mon	🔲 Tue 🔲 Wed 🔲 Thu 🔲 Fri 🔲 Sat
From:	20:22:14
Period:	00:01:00
To:	20:23:14
	OK Cancel

Weekly Schedule

Schedule	
Cycle Recording	Check this check box to enable cycle recording. When the Cycle
	Recording is checked and the storage usage has already reached the
	maximum reserved storage space, the utility will automatically delete
	the oldest recorded video file and use the space to store the newly
	recorded video stream.
One-Time Schedule	You can assign a range of time and the utility will automatically record
	the video stream only during the period of time. The default time is 2
	minutes later from the current time.
Weekly Schedule	You can assign the days in a week and the period of time in a day when
	you want to record the video stream. The utility will automatically record
	the video stream during the periods of time every week again and again.

Schedule	
New	Click "New" to add a new recording schedule.
Edit	Select an existing schedule in the schedule list and click "Edit" to edit
	the schedule.
Delete	Select an existing schedule in the schedule list and click "Delete" to
	delete the schedule.

5-8-3 Status

You can see the current status information of the connection session between the utility and the Internet Camera.

Internet Camera Settings	? 🗙
Setting Video Recording Status General About	
Connected: Yes	
Stream Started At: 19:55:41 🚔	
Time Elapsed (sec):	
Video Received (KB):	
Audio Received (KB):	
Frame Rate (Frame/s):	
Data Rate (KB/s):	
Number of Frames:	
Number of Users:	
	ancel

Status	
Connected	It displays "Yes" when the utility is connecting to the Internet Camera
	and displays "No" when the utility is not connecting to the Internet
	Camera.
Status	
Stream Started At	The beginning time of the current connection session between the utility
	and the Internet Camera.
Time Elapsed	The elapsed time of the current connection session between the utility
	and the Internet Camera.
Video Received	The total size (Unit is KByte) of video stream received during the current
	connection session between the utility and the Internet Camera.

Audio Received	The total size (Unit is KByte) of audio stream received during the current connection session between the utility and the Internet Camera.
Frame Rate	The frame rate (frame per second) of the current video download speed from the Internet Camera to the utility.
Data Rate	The data rate (KByte per second) of the current video download speed from the Internet Camera to the utility.
Number of Frames	The total number of video frames received during the current connection session between the utility and the Internet Camera.
Number of Users	The total number of users that viewing this camera currently.

5-8-4 General

You can manage storage usage for this Internet Camera here.

Internet Camera Settings				
Setting Video Rec	ording Status General About			
Snap Shot Directory:	C:\Program Files\Internet Camera\	Change		
Record Directory:	C:\Program Files\Internet Camera\	Change		
Free Disk Space	45015	MB		
Max Recording Space	40960 🝨	МВ		
Used Disk Space	0	МВ		
Max Video File Size	2048	MB		
	<u> </u>	Cancel		

Snap Shot Directory	This lets you assign the directory where bitmap files will be stored when you click "Snapshot" to take pictures. The default folder is where the software program is installed, for example: "C:\Program Files\Internet Camera".
Record Directory	This lets you assign the directory where the recorded video files will be stored. The default folder is where the software program is installed, for example: "C:\Program Files\Internet Camera".
Free Disk Space	The current free disk space of the hard drive where is assigned to save recording files.
Max Recording Space	You can reserve a disk space to store the recorded video and snapshot files. If the space is run out, a message will pop up to remind you.
Used Disk Space	The current used disk space for saving the recording file.
Max Video File Size	This let you assign a maximum size of each video file. The upper bound of this value is 2 GB per file.

5-8-5 About



About

Camera Viewer Utility Version Display current Camera Viewer Utility Version.

5-9 Playback

Choose a avi fil	e				? 🔀
Look in:	🗀 util		•	+ 🗈 💣 🎟+	
My Recent Documents Desktop	🚞 skin0				
My Documents					
My Computer					
My Network Places	File name:			•	Open
	Files of type:	(*.avi)		•	Cancel

Click the "Open File" and a "Load File" window will be popped up. Select the file that you want to play.

The viewer will start to play the selected video file.



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Playing Control	
Play	When the video playback is in Stop state, just click "Play" and the viewer
	will play the video file from the beginning point. When the video
	playback is in Pause state, just click "Play" and the viewer will play the
	video file from the current pause point. When the viewer is playing with
	fast speed, just click "Play" to let the viewer play with the normal speed.
Pause	When the recorded video is playing, you can click "Pause" to freeze the playback. If you want the viewer to continue playing from the current pause point, just click "Play".
Stop	When the viewer is playing, you can click "Stop" to stop the playback. If you want the viewer to play again, just click "Play" and the viewer will play the video file from the beginning point.

Playing Control	
Forward	If you want the viewer to play the video file in a faster speed when the
	viewer is playing the video file, just click "Forward" and the viewer will
44	double the playing speed. If you want the viewer play with the normal
	speed when the viewer is playing with fast speed, just click "Play".

5-10 Rotate Video

Rotate function lets you rotate the video frame 180 of degree angle each time you click the "Rotate"

O. With this function, you can view the live video with normal, and 180 degree angles counterclockwise.



Chapter 6: Web Connection and Setup

You can use the Web browser to connect the camera for viewing or setting. Open the web browser and enter the IP Address of the camera to establish a connection. The default IP Address of the camera is "**192.168.2.3**".

When the welcome screen appears, enter the "Admin Name" and "Password". The default values are: Admin Name: "**admin**" Password: "**airlive**"

Connect to 192.1	68.2.3
	G
Internet Camera	
User name:	2 •
Password:	
	Remember my password
	OK Cancel

When the camera is connected, the browser will take you to the live video page. If you are viewing this camera at first time, the following dialog will appear to install the ActiveX plug in. Please check the publisher part, you should only accept it if it is published by AirLive Ovislink Crop.



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After installed the ActiveX plug-in, the video image will be shown up in the web screen directly.



The menu options for the web control screen are as follows.

Camera – View live video and adjust the video format from the menu.

LAN – Setup the camera LAN port functions in the menu.

WLAN – Setup the camera WLAN port functions in the menu.

Motion Detection – Configure the Motion Detection Actions here.

System – Setup System utilities and settings in this menu.

Status – Shows the camera information and current status in this page.

Users – This camera support up to 4 user accounts. You can setup them in this menu.

Log- System Log

6-1 Camera Setting

	(www.airlive.com)
Air Liv	WL-1000CAM 802.11g Wireless Motion JPEG IP Camera
Camera	© Camera
LAN	
WLAN	
Motion Detection	
System	00
Status	
Users	
Log	
	COMPANY OF A DESCRIPTION OF A DESCRIPTIO
	Snapshot file path : C1 Get snapshot
	♦ Record file path : C.1 Start recording
	⊗ Resolution : 320X240 ▼
	♦ Image Quality : Highest
	⊘ Max Framerate : 30
	♦ Frequency: 60 Hz ▼
	 Saturation : - 50 + Nue : - 50 +
	♦ Whiteness : - 10+
	✓ Enable Auto Exposure
	Apply

Camera Setting	
Resolution	Select the desired video resolution format. Larger resolution
	requires more bandwidth. 640 x 480 is "VGA" format. 320 x 240 is
	"CIF" format. The default resolution is CIF format.
Image Quality	Adjust this property to control the video quality
Max Frame Rate	Set the video max frame rate. This camera can support at most
	30 frames per second. Set the frame rate higher can get video
	more smooth. But will use more bandwidth.

Frequency	Adjust this property to fitting light frequency.
Brightness	You can adjust the brightness of the video. If the video is too dark, you can input the larger number in this text box. The video will be brighter. This value can be from 1 to 100.
Contrast	You can adjust the contrast by change the value. This value can be from 1 to 100.
Saturation	You can adjust the saturation by change the value. This value can be from 1 to 100.
Hue	You can adjust the hue by change the value. This value can be from 1 to 100.
Whiteness	You can adjust the white balance by change this value. This value can be from 10 to 30.
Enable Auto Exposure	You can enable Auto Exposure by check this box.
Enable OSD	You can enable or disable "Time Stamp" function in this item. When you disable "OSD" function, the "Time Stamp" will be hidden.
Apply	When you finish "AV Server" setting, click this button to validate the setting values.

6-2 LAN Setting

	(www.air	live.com)
Air Live	WL-1000CAM 802.11g Wireless Motion JPEG	P Camera
Camera	@ LAN	
IAN	⊗ Network Type : ODHCP	
WLAN	♦ IP Address : 192.168.2.3	
Motion Detection	♦ Subnet Mask: 255.255.255.0	
	♦ Gateway: 192.168.2.1	
System	♦ Primary DNS : 168.95.1.1	
Status	Secondary	
Users	DNS: Video Port: 4321	
Log	♦ HTTP Port: 80 (Apply)	
	@ PPPoE	
	♦ Enable PPPoE : ○ Enable	
	♦ User Name :	
	♦ Password :	
	♦ MTU: [1392] (512<=MTU Value<=1492) Apply	
	Opnamic DNS	
	♦ Enable DDNS : ● Enable ● Disable	
	Provider : dyndns.org	
	♦ Host Name :	
	⊗ User Name :	
	Password : Apply	
	UPnP	
	CoginFree	
	◊ Filename : Jpg Apply	

LAN	
Network Type	This camera can obtain IP via DHCP protocol or specified static IP Address to it
IP Address	Enter an unused IP Address within the IP address range used on your LAN. If the IP Address of your LAN is from the 192.168.2.0 to 192.168.2.250, you can set an unused IP Address from the range for the camera, for example: 192.168.2.250.

Subnet Mask	The Subnet Mask field must match the subnet setting on your LAN. For example: 255.255.255.0.
Gateway	The Gateway is used to forward frames to destinations in a different subnet on the Internet. The Gateway setting must be the same with the gateway used by the PCs on your LAN.
DNS Server	DNS Server (Domain Name Server) that translates names to IP addresses. Set the same DNS Server as the PCs on your LAN.
Video Port	The AV Control Port is used to transmit or receive the AV streaming in the network. The default port setting is "4321". If you want to view the video from the camera, the port setting should be correct.
Web Port	This camera support web connection, the default web port is 80. Since the web server may use port 80, you can use a different port for the camera. If you change the web port from 80 to 8080, you must type <u>http://192.168.2.3:8080</u> to connect the camera through the web browser.
Apply	When you finish the "LAN", click "Apply".
PPPoE	
Enable PPPoE	Enable or disable PPPoE function of the camera.
User Name	Enter the User Name for the PPPoE Connection.
Password	Enter the Password for the PPPoE Connection.
MTU	A maximum transmission unit (MTU) is the largest size packet or frame, specified in octets (eight-bit bytes), that can be sent in a packet or frame based network such as the Internet.
APPLY	When you finish the "PPPoE" setting, click "Apply".

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Dynamic DNS	
Enable DDNS	Enable or disable DDNS function of the camera.
Provider	Several companies provide DDNS service. This camera supports the service from DynDNS company.
Domain Name	The domain name given by DynDNS is "registername.dyndns.com". Enter the domain name that you register for the camera from DynDNS web site.
User Name	Enter the login name for the DDNS service.
Password	Enter the password for the DDNS service.
APPLY	When you finish the "Dynamic DNS" setting, click "Apply".

UPnP	
Enable UPNP	Enable or disable UPnP function of the camera.
APPLY	When you finish the "UPnP" setting, click "Apply".

Cilenana :			
Filename :	loginfree	.jpg	Apply

LoginFree	
Filename	The default value is "loginfree". That's mean user can get a snapshot
	image from Internet Explorer. The format is like:
	IP Camera will send a snapshot image to Internet Explorer.
	If user changed file name (Ex: "1234"), the URL must be changed to
	"http://192.168.2.3/1234.jpg"
APPLY	When you finish the "UPnP" setting, click "Apply".

6-3 WLAN Setting

Camera	Wire	less LAN					
LAN	♦ Wireles	s Connection :	💿 Enable 🔘 Disable				
I WLAN	 Network 						
Motion Detection	The second secon	e Networks :	Refresh	1			Apply
System	Connect	SSID	MAC Address	Signal	Channel	Encryption	Network Typ
Status	•	5000rv2	00:0E:2E:44:82:78	98	6	WPA2PSK(AES)	Infrastructur
Users	0	airlive	00:4F:67:02:DB:7F	78	1	Disabled	Infrastructur
 Users Log 	0	airlive	00:C0:A8:F0:AB:12	90	2	Disabled	Infrastructur
	🔷 WEP K	Rate : tication : ion Type : re-Shared Key : ey Length : ey Format : Key : ey 1 : ey 2 : ey 3 :	11 ✓ Auto ✓ WPA2-PSK ✓ AES ✓ 64-Bit ✓ 1 ✓ 1 ✓ 1 ✓ 1 ✓ 1 ✓ 1 ✓ ✓ ✓		AAAAAAA		

Wireless Setting	
Wireless connection	Enable or disable the wireless function of the Internet Camera. By default, the function is disabled.
Network Type	Infrastructure – This operation mode requires the presence of a Wireless LAN Access Point or Router. All communication is done via the Access Point or Router.
	Ad-Hoc – Select this mode if you want to connect to another wireless stations in the Wireless LAN network without through an Access Point or Router.
Available Networks	Select the networks listed below and click apply to connect to the specified network.
SSID	The SSID (up to 32 printable ASCII characters) is the unique name identified in a WLAN. The ID prevents the unintentional merging of two co-located WLANs.
	You may specify a SSID for the card and then only the device with the same SSID can interconnect to the card. If you want to add one of the networks nearby to the profile list, pull down the menu, all the networks nearby will be listed and you can add one of them to the profile list.
Channel	This setting is only available for Ad Hoc mode. Select the number of the radio channel used for the networking. The channel setting should be the same with the network you are connecting to.
Basic Rate	The camera will force to the data rate that you selected to transmit data.
Authentication and Encryption Type	Choose the authentication type you want to use. "None" means that you don't want any encryption for wireless. "Open System" means that you can use WEP for encryption or not to encryption. When you select "Shared Key", you must use WEP for encryption. The last option is "WPA-PSK". When you select this authentication type, you can encryption your wireless AirLive WL-1000CAM User's Manual 59

with WPA-TKIP or WPA-AES.

WPA Pre-Shared Key	The WPA-PSK key can be from 8 to 64 characters and can be letters or numbers. This same key must be used on all of the wireless stations in the network.
WEP Key Length	You may select 64-bit or 128-bit to encrypt transmitted data. Larger key length will provide higher level of security, but the throughput will be lower.
WEP Key Format	Hexdecimal – Only "A-F", "a-f" and "0-9" are allowed to be set as WEP key. ASCII – Numerical values, characters or signs are allowed to be WEP key. It is more recognizable for user.
Default Key	Select one of the keys (1~4) as the encryption key.
Key1 ~ Key4	The WEP keys are used to encrypt data transmitted in the wireless network. Fill the text box by following rules below. 64-bit – Input 10-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 5-digit ASCII characters (including "a-z" and "0-9") as the encryption keys. For example: "0123456aef" or "test1".
	128-bit – Input 26-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 13-digit ASCII characters (including "a-z" and "0-9") as the encryption keys. For example: "01234567890123456789abcdef" or "administrator".
Apply	When you finish "WLAN" setting, click this button to validate the setting values.

6-4 Motion Detection Settings

The "Motion Detection" allows users to setup the behavior of motion detection feature.

			(www.airlive.com)
Air Live	₽ [°] WL-1	000CAM 802.11g Wireles	ss Motion JPEG IP Camera
Camera	Motion Detection		
💿 LAN	♦ Enable Motion Detection :	🔿 Enable 💿 Disable	
O WLAN	♦ Motion Detection Interval :	5 seconds	
Motion Detection	Threshold :	3	
System	Send snapshot file to E-Mail :	🔿 Yes 🖲 No	-
 Status 	♦ E-Mail Subject :	Motion Detection Notification	
	Send snapshot file to FTP :	🔾 Yes 💽 No	Apply
Users	E-Mail		
© Log	 Recipient E-Mail Address : SMTP Server : SMTP Port : Sender E-Mail Address : SMTP Authentication : User Name : Password : 	25 © Enable © Disable Send a test email	Apply
	 ♦ FTP Server : ♦ FTP Port : ♦ User Name : 	21	
	♦ Password :♦ Remote Folder :		
	♦ Passive Mode :	 Enable O Disable Upload a test file 	Apply

Motion Detection	
Motion Detection Enable	Enable or Disable the Motion Detection Function.
Next Event Detected Interval	Setup the interval between two events. For example, if you setup the interval to 5 seconds, the next event will start after this event finished + 5 seconds.

Threshold	Setup the sensitivity of motion detection.
Send Recording File to E-Mail	Select Yes to send the recorded video file to your e-mail account that you had specified at "E-Mail & FTP" menu.
E-Mail Subject	Specify the subject of motion detection notify e-mail.
Send Recording File to FTP	Select Yes to send the recorded video file to your FTP server that you had specified at "E-Mail & FTP" menu.

6-5 System Settings

The "System" allows users to setup the camera's parameters, like camera name, data/time setting. And also provide firmware upgrade and reset tools at this page.

			(www.airlive.com)
Air Live	ຂໍ 🕷	L-1000CAM 802.11g Wireless N	Notion JPEG IP Camera
Camera	Camera Information		
lan	🔗 Camera Name :	AIRLIVE	
WLAN	Password :	•••••	
Motion Detection	♦ Confirm Password :	•••••	Apply
System			
Status	Date / Time Setting		
Users	Synchronize to PC time)	
Log	 Set Date/Time manually NTP Server 		: ;
	 ♦ Time Zone : ♦ NTP Server : 	(GMT+08:00) Taipei	Apply
	Utilities		
	 ♦ Upgrade Firmware : ♦ Reset To Factory Default ♦ Reboot Device : ♦ LED Setting : 	Upgrade Firmware Reset Reboot Turn off LED light	
	Mirror & Rotation		
	♦ Mode:	Default	Apply

System		
Camera Name	The default camera name is "IC1500". It is recommended to name a meaningful name for the camera.	
Login Name	Setup your administrator account's login name. Default name is "admin"	
PASSWORD	Enter up to 4 digits password for the new user account.	
CONFIRM PASSWORD	Enter the password again to confirm the setting.	
Set Date/Time manually	Display the current Date and Time.	
NTP Server	Synchronize the Date and Time with this NTP server.	
Time Zone	Select the time zone that your camera put on.	
NTP Server	Specify the IP Address of the NTP Server.	
Upgrade Firmware	You can upgrade camera's firmware via this function. Press the browse button, find the correct firmware and press upgrade.	
Reset to Factory Defaults	If you want to reset all the camera settings to default, click this button.	
Reboot Device	To reboot the Internet Camera, click "Reboot".	
LED Setting	There are four LEDs to indicate the status of Internet Camera. If you wan to secure the camera from noticing, you can turn off the LED light by clicking "LED Light OFF". To turn on the LED light, click "LED Light ON".	

6-6 Status Settings

The "Status" shows the current firmware version, uptime, system time and IP information of this camera.

Air Live		WL-1000CAM 802.11g Wireless Motion JPEG IP Came
Camera	Status	
💿 LAN	Firmware Version :	v1.30 (Feb 20 2008 14:53:37)
WLAN	 ⊘ Device Uptime : ⊗ System Time : 	50 min 38 sec 2008/02/21 14:56:01
Motion Detection		
System	lan 🔘	
Status	♦ IP Address : ♦ Subnet Mask :	192.168.2.1 255.255.255.0
Users	📀 Gateway :	192.168.2.3
Log	 MAC Address : 	00:0E:2E:ED:55:72
03	📀 Video Port :	4321
	HTTP Port	80
	PPPoE	
	 ♦ Link Status : ♦ IP Address : 	Disconnected
	 ⊗ Subnet Mask : ⊗ Gateway : 	
	Outeway: ONS Server:	

6-7 Users Settings

The "Users" allows users to add four user accounts which are able to view video from Camera Viewer and Web Management. These users, unlike Administrator, are not allowed to configure the camera.

(www.airlive.com) **Air Live** WL-1000CAM 802.11g Wireless Motion JPEG IP Camera Camera **O**Users ♦ User 1 : 🔿 Enable 💿 Disable lan 🔘 Login : **WLAN** Password : Motion Detection Confirm password : Apply System ♦ User 2 : 🔘 Enable 💿 Disable Status \land Login : () Users Password : 💿 Log Confirm password : Apply ♦ User 3 : O Enable 💿 Disable 💿 Login : Password : Confirm password : Apply 📀 User 4 : 🔿 Enable 💿 Disable 📀 Login : Password : Confirm password : Apply

User 1 / 2 / 3 / 4	
USER #	Enable or Disable the user number #.
LOGIN	Enter the the login name to the camera.
PASSWORD	Enter up to 4 digits password for the new user account.
CONFIRM PASSWORD	Enter the password again to confirm the setting.
APPLY	Click "Apply" to save the user account setting.
	All Live WL-1000CAW User's Manual

6-8 Log Setting

The "Log" allows users to monitor the device event and time. If you have trouble to use this device, the log file will help administrator to know the status of device.

Air Live	2	WL-1000CAM 802.11g Wireless Motion JPEG IP Can
Camera	System Log	
LAN	Refresh	
		System startup [v1.30 (Feb 20 2008 14:53:37)]
WLAN	2000/01/01 08:00:08	이 것 같은 것은 것 같은 것 같은 것 같은 것 같은 것 같은 것 같은
Motion Detection	2000/01/01 08:00:09	승규는 승규가 가장 승규가 가장 가장 가장 가장 가지 않는 것이 가지 않는 것이 같이 가지 않는 것이 가지 않는 것이 같이 하는 것을 수 있다. 것을 하는 것을 하는 것을 하는 것을 하는 것을 하는 것을 하는 것을 수 있다. 것을 하는 것을 하는 것을 하는 것을 수 있다. 것을 하는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 하는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 하는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있다. 것을 수 있는 것을 것을 수 있는 것을 것을 수 있는 것을 수 있는 것을 것을 수 있는 것을 것을 수 있는 것을 것을 것 같이 않는 것을 것 같이 않는 것을 것 같이 않는 것을 것 같이 않는 것 같이 없다. 것 같이 않는 것 같이 없는 것 같이 없다. 것 같이 않는 것 같이 없다. 것 않는 것 같이 않는 것 같이 않는 것 같이 없다. 것 같이 않는 것 같이 않는 것 같이 않는 것 않는 것 같이 않는 것 않는 것 않는 것 같이 않는 것 않는 것 않는 것 않는 것 같이 않는 것 않는 것 않는 것 않는 것 같이 않는 것 않는
Motion Detection		video device thread started (PID:43)
System		embedded video streaming controller started (PID:45)
oyatem		video streaming server port: 4321
Status		Network initial status: WLAN
Otatus		Network link status change to LAN
Users		Network link status change to WLAN
	A DESTRUCTION OF A DEST	Video server: accept connection from 192.168.2.119
Log		Video server: "admin" login Video server: disconnect connection from 192.168.2.119
		Video server: accept connection from 192.168.2.119 Video server: accept connection from 192.168.2.119
		Video server: "admin" login
		Video server: disconnect connection from 192.168.2.119
		Video server: accept connection from 192.168.2.1
		Video server: "admin" login
		Video server: accept connection from 192.168.2.1
		Video server: "admin" login
		Video server: disconnect connection from 192.168.2.1
		Video server: accept connection from 192.168.2.1
		Video server: "admin" login
	2008/02/21 14:46:16	Video server: disconnect connection from 192.168.2.1
	2008/02/21 14:54:03	Video server: disconnect connection from 192.168.2.1
	<	

LOG SCREEN

The screen will show event and event time of device.

REFRESH You can press "Refresh" button to refresh the log screen.

Chapter 7: Frequently Asked Questions

Q1: What is an Internet Camera?

A: The Internet Camera is a standalone system connecting directly to an Ethernet or Fast Ethernet network. It is different from the conventional PC Camera; the Internet Camera is an all-in-one system with built-in CPU and web-based solutions providing a low cost solution that can transmit high quality video images for monitoring. The Internet Camera can be managed remotely, accessed and controlled from any PC/Notebook over the Intranet via a web browser or camera viewer.

Q2: What algorithm is used to compress the digital image?

A: The Internet Camera utilizes MJPEG video compression technology to provide high quality images. MJPEG is a standard for video compression and can be applied to various application software.

Q3: Can I capture or record still images from the Internet Camera?

A: Yes, you are able to capture or record still images with the snapshot function from the Camera Viewer application supplied with the Internet Camera CD-ROM.

Q4: What network cabling is required for the Internet Camera?

A: The Internet Camera uses Category 5 UTP Twisted-pair cable allowing 10 Base-T and 100 Base-T networking.

Q5: Can the Internet Camera be setup as a PC-cam on the computer?

A: No, the Internet Camera is used only on Ethernet and Fast Ethernet network.

Q6: Can the Internet Camera be connected on the network if it consists of only private IP Addresses?

A: Yes, the Internet Camera can be connected to a LAN with private IP Addresses.

Q7: The focus on the Internet Camera is bad, how can I correct it?

A: Adjust the Internet Camera focus manually.

Chapter 8: Technical Specifications

Video specification

Max Resolution: 640 x 480 pixels Sensor: 300K pixels 1/4" color CMOS sensor Gain control: Automatic Exposure: Automatic White Balance: Automatic Focal Length: 4.8 mm Aperture: F=1.8

Image (Video Setting)

Image compression: MJPEG Image Video Digital 24-bit Color Frame rate: 30fps@QVGA, 20fps@VGA Video resolution: 176 x 144, 320x240, 640x480

System Hardware

LAN Connector: One RJ-45 port to connect to 10/100Mbps Ethernet Wireless: IEEE 802.11b/g(*Wireless Model Only) LED Indicator: LAN LED (Green), WLAN LED (Amber), Power LED (Blue) Power Supply: 12V / 1A (Wireless Model) Power Supply: 12V / 0.4A (Wired Model)

HTTP/Utility

Includes easy-to-use Viewer & Recorder utility Provides Admin utility & WEB browser Management View multiple cameras simultaneously - Up to 4 cameras at a time Manual/Schedule Record, Video Playback/Stop/Forward/Pause Supports four additional user accounts for viewing camera Auto sending Snap Shot by E-mail or FTP Support DDNS and UPnP functions Supports Windows 2000/XP/2003 Firmware Upgradeable