

Wired / Wireless / PoE CMOS IP Camera

ICA-107 ICA-107W ICA-107P

User's Manual

Version: 2.0

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Federal Communication Commission Interference Statement

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

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

FCC Caution

To assure continued compliance. (example-use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the Following two conditions: (1) This device may not cause harmful interference, and (2) this Device must accept any interference received, including interference that may cause undesired operation.

Federal Communication Commission (FCC) Radiation Exposure Statement

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

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/CE OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF 9 March 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE)

The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8,2000.

Safety

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

CE Mark Warning

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

WEEE Regulation



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

Revision

User's Manual for PLANET Wired / Wireless / PoE CMOS IP Camera Model: ICA-107 / ICA-107W / ICA-107P Rev: 2.0 (April. 2009) Part No. EM-ICA-107_W_P_v2

Contents

1.	Introduction	1
2.	Package Content	2
3.	System Requirement	3
4.	Hardware Installation	4
	4.1. LED and Focusing	4
	4.2. Hardware Connection	5
	Installation Procedure	6
5.	Software Installation	7
6.	Using the IP Camera Admin	12
	6.1. General Setting	13
	6.2. Detail Setting	15
	6.2.1. Network Setting	16
	6.2.2. Wireless Settings (ICA-107W Only)	17
	6.2.3. E-Mail Setting	19
	6.2.4. PPPoE Settings	21
	6.2.5. FTP Settings	22
	6.2.6. Date / Time Settings	23
	6.2.7. Resolution	24
	6.2.8. Advanced Setting	25
	6.2.9. Users	26
	6.2.10. Tools	27
	6.2.11. About	28
	6.3. Setting Wizard	29
7.	Web Connection and Setup	30
	7.1. Camera Setting	32
	7.2. LAN Setting	34
	7.3. WLAN (ICA-107W Only)	36
	7.4. E-Mail and FTP	38
	7.5. Motion Detection	40
	7.6. System	41
	7.7. Status	43
	7.8. Users	44
	7.9. Log	45
8.	Technical Specifications	46

9.	Appendix A Router/Gateway Setup for Internet Viewing	47
10.	Appendix B Viewing via UPnP in Windows XP	48
11.	Appendix D Configure Windows 2003 Server	53

1. Introduction

Searching for a powerful and economical Internet Camera? PLANET is glad to introduce our ICA-107 / ICA-107W / ICA-107P. Those Internet Cameras Integrated a microcomputer and a high quality CMOS digital-Image-Sensor, enabling it to display high quality live streaming video over your LAN and the Internet.

The motion detection of the ICA-107 series can notify users via email or ftp when detecting any movement. With its admin software, no expertise required, your first surveillance network can be easily, efficiently established in few minutes.

ICA-107W support 802.11b/g wireless network, that will save your time and cost for wiring. And ICA-107P has provided IEEE802.3af standard PoE interface, it helps you to locate the camera to any location that is no power outlet. With the powerful Windows based utility, Cam Viewer, it can help you to manage all the PLANET internet cameras in the same software, not just ICA-107 serial.

In the following section, unless specified, the term "IP Camera" will mean all the cameras above. For Cam Viewer, you may check the manual in Cam Viewer CD disk for the details.

2. Package Content

- Internet Camera
- Power Adapter
- Camera Stand Kit
- Category 5 Ethernet Cable
- Quick Installation Guide x 2
- CD-Rom x 2
- External Antenna (ICA-107W only)

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

3. System Requirement

Model	ICA-107	ICA-107W	ICA-107P
Network Environment			
Network Access	10/ 100Base-TX Eth	ernet	
Additional Interface	-	IEEE 802.11b/g	IEEE 802.3af PoE
Monitoring System Re	commendation		
System Hardware	CPU: Pentium 4, 1.6GHz or above		
	Memory Size: 256 MB (512 MB Recommended)		
	 VGA card resolution: 800 x 600 or above 		
Web Browser	Internet Explorer 6.0 or above		
System Requirement for IP Camera Admin			
Support OS	Windows 2000 SP4, Windows XP SP2		
System Hardware	CPU: Pentium 4, 2.0GHz or above		
	Memory Size: 256 MB or above.		
	VGA card resolution: 1024x768 or above		

4. Hardware Installation

4.1. LED and Focusing

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

There are LEDs indicating the IP Camera status and networking status.

• Power

When the IP Camera is power on, the LED will light on.

• WLAN (ICA-107W only)

When the IP Camera is linking with wireless interface, the LED will light on. This LED will flash when video is transmitting or receiving.

• LAN

When the IP Camera is linking to wired interface, the LED will light on. This LED will flash when video is transmitting or receiving.



Front view of IP Camera (Example on ICA-107W)

4.2. Hardware Connection

Power Input

The DC power input connector is located on the IP Camera's bottom panel, and is labeled 12V DC with a single jack socket to supply power to the IP Camera. Power will be generated when the power supply is connected to a wall outlet.

Ethernet Jack

The IP Camera's bottom panel features an RJ-45 connector for connections to 10Base-T Ethernet cabling or 100Base-TX Fast Ethernet cabling (which should be Category 5 twisted-pair cable). The port supports "Auto-MDIX" function, allowing the IP Camera to automatically detect or negotiate the transmission speed of the network. For ICA-107P, this port is also the PoE interface.

Antenna Connector (ICA-107W only)

ICA-107W provides a standard Reverse SMA connector on its top panel. The external antenna allows you to adjust its position to obtain the maximum signal.

Reset Button

- 1. Press the reset button (for less than 2 seconds) and the IP Camera will reboot.
- 2. Press the reset button for more than 5 seconds and the IP Camera will reset to the factory default. The factory default settings are listed in the table below.



Bottom View of IP Camera

(Example on ICA-107)

Factory Default Setting		
IP Address	192.168.0.20	
Default Account	Admin	
Default Password	Admin	
Default Http Port	80	
Default Video Port	4321	

Installation Procedure

- 1. Unpack the package and verify that all the items listed in the Chapter 2 are available.
- 2. Connect the IP Camera to your network with the attached network cable; please connect the IP camera to your network switch or router.
- 3. Connect the power adapter to IP Camera and plug the power adapter to power outlet. The IP Camera will be powered on. When the IP Camera is ready, the Power LED will light on.
- 4. Make sure that you have installed the ActiveX utility.

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

5. Software Installation

Follow the steps below to install the initial utility. The following installation is implemented in Windows XP and the installation procedure is similar to Windows 2000.

- 1. Insert the bundled CD into your CD-ROM drive. A welcome web page should open with your default browser. Please click the IP camera model name to next page. If the welcome page doesn't appear, please double click on the "default.htm" in the CD.
- 2. Click on the hyperlink "IP Camera initial utility".
- 3. After clicking on the "Install IP Camera Configure Utility" hyperlink, you may see a dialog box to prompt you to download the installation program. Click on the "Run" button, the installation program should be started.



Internet Camera - InstallShield Wizard	
Preparing Setup Please wait while the InstallShield Wizard prepares the setup.	K
Internet Camera Setup is preparing the InstallShield Wizard, which will guide you throug rest of the setup process. Please wait.	gh the
(
	Cancel

4. Click "Next" to start the installation.



5. Click on the "Change" button to choose the destination you wished to install the utility. If no specific requirement, leave the default setting and click "Next".

Internet C	amera - InstallShield Wizard	X
Choose D Select fo	Destination Location Ider where setup will install files.	
	Install Internet Camera to: D:\Program Files\Internet Camera	Change
InstallShield -		< <u>Back</u> Next> Cancel

6. Click "Install" to start installing the utility.



7. The system will install the program automatically.

Internet Camera - InstallShield Wizard	X
Setup Status	N2
Internet Camera Setup is performing the requested operations.	
Installing	
D:\Program Files\Internet Camera\util\skin0\OVER_11.BMP	
InstallShield	Cancel

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



 After the installation, IP Camera Admin will launch automatically. It will start to search the IP Cameras in your intranet and it will list all the available ICA-107 series on the camera list. Choose the one that you would like to configure and click "Setting Wizard" to processed.



10. Please enter the default password "Admin" and click "OK" to login to the IP Camera's setup page.



11. For IP Camera work, you may assign a new IP address to your IP Camera. The utility will try to find an available IP address and recommend you using that address. You could use the recommend IP address or input the IP address manually. Please be aware that the IP address of the IP Camera and your PC should be in the same subnet. Click "Finish" to apply the configuration.

PLANET I]		
Interne	et Camera Name:	ICA-107W	
	IP Address:	192.168.100.250	
	Subnet Mask:	255 . 255 . 255 . 0	Recommended IP address⊬
	Gateway:	192 . 168 . 100 . 1	L
	Video Port:	4321	
		Cancel Finish	

6. Using the IP Camera Admin

The IP Camera Admin allows users to search and setup the ICA-107 series camera that located within the Intranet. Users can view all the information about the selected ICA-107 series camera; furthermore, it provides a setting wizard, which can guide users to add the IP Camera to the network easily and promptly.

There are two ways to run the IP Camera Admin:

- 1. Click "Start", select "Programs"→"IP Camera" → "Admin Utility" to run the utility.
- 2. Double click the IP Camera Admin icon (P Camera) on the desktop to run the utility.

Once the utility is started, it will search the available IP Cameras in your intranet. For further configurations, please refer to the following sections.

28

PLANET Network Camera	
PLANET Internet Game	era Admin Software
LAN Auto Discover	Information of Camera
N ICA-107W	 Firmware Version: v1.25 Network Information IP: 192.168.0.20 Subnet Mask: 255.255.255.0 Gateway: 192.168.0.254 DNS Server: 168.95.1.1 Video Port: 4321 Web Port: 80 UPnP: Disable DDNS: Disable DUNS: Disable Wireless Information Wireless Connection: Disable Network Type: SSID: any Status: Disconnect Resolution: 640x480

6.1. General Setting



LAN		
Auto Discover	The IP Camera Admin will search all the available IP Camera	
Camera List	The name and setting status of the IP Camera will show in this list.	
	The " ${f N}$ " icon means the configuration of the IP Camera is in the	
	status of factory default.	
	The "" icon means the IP Camera has been configured before.	
Internet		
Add and Delete Button	The functions located in this area are reserved for future use.	
Information of Camera		
Camera Information	All information about the selected IP Camera will display here.	
	The information includes Firmware Version, Network Information,	
	IP Address, UPnP Setting, DDNS Setting, Resolution and E-mail	

setting, etc.

Camera Setting	
Detail Setting	You might use this function for further configuring the IP Camera,
	such as IP address, Resolution, password and firmware upgrade,
	etc.
Setting Wizard	You might use this function to configure the camera name, IP
	address and the video port of the IP Camera.

6.2. Detail Setting

After clicking on the "Detail Setting", the IP Camera Admin will ask you to enter the "Administrator Name" and "Password" for authentication. The default administrator name / password are:

Administrator Name: "Admin"

Password: "Admin"



After entering the password and clicking on the "OK" button, you could start to configure your IP Camera.

6.2.1. Network Setting

Edit PLANET Network Camera		
Network Settings Wireless S	ettings E-Mail Settings PPPoE Setti	
DHCP :	C Enable 💿 Disable	
Camera Name:	ICA-107W	
IP Address:	192 . 168 . 0 . 20	
Subnet Mask:	255 . 255 . 255 . 0	
Gateway:	192 . 168 . 0 .254	
DNS Server:	0.0.0.0	
Video Port:	4321	
Web Port:	80	
	Cancel	

Network Setting	
DHCP	Enable or disable the DHCP function here.
Camera Name	It is recommended to name a meaningful name for the camera.
	For example, "Living Room", "Front Door". That will help you to
	recognize the IP Camera more easily.
IP Address	Please assign an available IP address to your IP Camera.
Subnet Mask	Please input the subnet mask that you want to use here.
Gateway	Please input the gateway that you want to use here.
DNS Server	Please input the desired DNS server here.
Video Port	The IP Camera uses the Video Port to transmit or receive the
	video streaming. The default port is "4321".
Web Port	The default port used by the web is 80. You might use a different
	port for the web of the IP Camera.

6.2.2. Wireless Settings (ICA-107W Only)

Wireless Settings Wireless Settings	E-Mail Settings PPPoE Settings F	FTP Settings Date / Time Settings Resolut
SSID 10F Planet	Signal MEDIUM	Network Information
< Connect Add	I to Profile	Channel
Profile List Profile N SSID Cha	nnel Network Encryption	Encryption Signal Strength
) ca	
Add Edit Delete	Activate	

The IP Camera Admin will find available wireless network automatically. You could also press the "Refresh" button to find the available wireless network manually.

Available Network		
SSID	Signal	
Searching Please	e Wait.	
<		

After refresh procedure, there will show the available wireless networks.

Γ.	Available Network	
	SSID	Signal
	10F Planet	MEDIUM
	<	>
	Refresh Connect Add	to Profile

You might press "Connect" for connecting to the AP directly or "Add to Profile" to configure the security setting of the wireless network.

A	vailable Network	
	SSID	Signal
L	10F Planet	MEDIUM
L		
L		
ŀ	()	
R	tefresh Connect	Add to Profile
-		
	Edit Profile	V
	Lan rome	
		Par fin 1
	Profile Name	Profile_1
	SSID	10F_Planet
	Channel	11
	Channel	
	Network Type	Infrastructure Ad Hoc
	Authentication Type	None
	Encruption Type	None
	and poor type	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

ICA-107W supports WEP(Open System/Shared Key), WPA-PSK, WPA2-PSK and WPANone. Please select the responding security setting of the desired wireless network. After set the profile, you might remove the LAN cable, and the IP Camera will connect to the AP automatically. When the connection established, you will see the wireless LED (orange color) light on.



LED Status Diagram



a.) You should configure the wireless settings via the wired connection when you first time to set the ICA-107W to wireless interface.

b.) After the configuration is done, you might remove the cable then the wireless connection should start automatically.

6.2.3. E-Mail Setting

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

E-Mail Setting		
Recipient E-Mail Address	S 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 sender.	
Authentication	Enable or Disable the SMTP Authentication function	
Username	When E-Mail Authentication is enabled, please input the SMTP	
	Username here.	
Password	When E-Mail Authentication is enabled, please input the	
	password here.	
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.	

6.2.4. **PPPoE Settings**

Wireless Settings	F-Mail Settings	PPPoE Settings		ings I I
wireless setungs	E-Mail Setungs		prie seu	
PPPoE				
(Enable	Disable		
	_		_	
l	Jsername:			
	Password:		_	
	MTLI- 139	2	_	
	MIG: [155	2		
			1	
		Cancel		OK

PPPoE Settings	
Enable/Disable	Enable or Disable the PPPoE connection here.
Username	Enter the Username of your PPPoE account.
Password	Enter the Password of your PPPoE account.
MTU	Maximum Transmission Unit (MTU) is the largest frame that
	could be transmitted through the \ensuremath{PPPoE} connection. The MTU is
	specified in octets (eight-bit bytes). If there is no other request,
	please leave it as default value.

6.2.5. FTP Settings

Edit Internet Camera	X
E-Mail Settings PPPoE Sett	ings FTP Settings Date / Time Settin
FTP Server:	
FTP Port:	21
User Name:	
Password:	
Remote Folder:	
Passive Mode:	
	Cancel OK

FTP Settings	
FTP Server	The IP Camera could upload picture to the FTP server when you
	enable the motion detection function. Please enter the IP address
	of the FTP server that you want to use.
FTP Port	Please enter the FTP port number that your FTP server uses. In
	most case, the FTP server should use TCP port 21.
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 IP Camera is under NAT, you usually need to enable this
	feature.

6.2.6. Date / Time Settings

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

Date / Time Settings	
Set Date/Time manually	Set the current Date and Time here.
NTP Server	Enable or Disable the NTP client here.
Time Zone	Select your time zone here.
NTP Server	Specify the IP address of the NTP server.

6.2.7. Resolution

Edit Internet Camera	2	<
Date / Time Settings Res	Advanced Settings Users Tc	
	Cancel OK	

Resolution	
Resolution	You might select the desired video resolution here. Available
	resolutions are: 176 x 144, 320 x 240, 640 x 480.

6.2.8. Advanced Setting

Edit In	uternet Camera 🛛 🔀
Date	/ Time Settings Resolution Advanced Settings Users Tc • •
	UPnP C Enable C Disable
	DDNS
	C Enable © Disable
	Provider: DynDNS
	Domain Name: ddns-host
	Account: ddns-account
	Password:
	Cancel

Advanced Setting	
UPnP	Enable or Disable UPnP here.
Enable/Disable DDNS	Enable or disable DDNS function of the IP Camera.
Provider	The IP Camera supports the service from DynDNS, for further
	information, please refer to: http://www.dyndns.org
Domain Name	The domain name given by DynDNS is
	"registername.dyndns.com". Please enter the domain name that
	you register for the IP Camera from DynDNS web site.
Account	Enter the login name for the DDNS service.
Password	Enter the password for the DDNS service.

6.2.9. 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				
User Account 2				
User Account 3				
User Account 4				
			Cancel	ж

Users	
Administrator	Setting the password of Administrator account
Current Password	Enter the current password of the IP Camera.
New Password	Enter the new password you want to use for the IP Camera.
Confirm New Password	Retype the new password to confirm the setting.
User	You might Enable/Disable the user accounts and setting the user
	name and password here. The IP Camera could support up to 4
	user accounts.

6.2.10. Tools

Edit Internet Camera
Resolution Advanced Settings Users Tools About •
Firmware Version: v1.19
Firmware Update
Reset to Default
LED Light OFF
Cancel

Tools	
Firmware Version	Display current firmware version.
Firmware Update	You could upgrade IP Camera's firmware via this function. Press
	this button and select the correct firmware to upgrade.
Reset to Default	If you want to reset the IP Camera to factory default, you might
	click on this button. The default settings of the IP Camera are as
	follows.
	Camera Name: "ICA-107(W / P)"
	IP Address: "192.168.0.20"
	Subnet Mask: 255.255.255.0
	Administrator Name: "Admin"
	Password: "Admin"
	Video Port: "4321"

6.2.11. About





6.3. Setting Wizard

When you click the "Setting Wizard", the IP Camera Admin will ask you to enter the "Administrator Name" and "Password". The default value is as follows.

Administrator Name: "Admin"

Password: "Admin"

Input the Password	×
Name: Admin Password:	ОК

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

PLANET IP Camera Cont	fig Wizard 🛛 🔀
Internet Camera Name:	ICA-107W
IP Address:	192.168.100.250
Subnet Mask:	255 . 255 . 255 . 0
Gateway:	192 . 168 . 100 . 1
Video Port:	4321
	Cancel

Network Setting	
Camera Name	It is recommended to name a meaningful name for the camera.
	For example, "Living Room", "Front Door". That will help you to
	recognize the IP Camera more easily.
IP Address	Please assign an available IP address to your IP Camera.
Subnet Mask	Please input the subnet mask that you want to use here.
Gateway	Please input the gateway that you want to use here.
DNS Server	Please input the desired DNS server here.

7. Web Connection and Setup

You can use the Web browser to connect the IP Camera for viewing or setting. Open the web browser and enter the IP address of the IP Camera to establish a connection. The default IP address of the camera is "**192.168.0.20**".

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

Administrator Name: "Admir

Password: "Admin"

Connect to 192.168	.0.20 🛛 🖓 🔀
Internet Camera User name: Password:	Remember my password
	OK Cancel

When the IP Camera is connected, the browser will take you to the live video page. If you are viewing the IP Camera at the first time, the following dialog will appear to install the ActiveX plug in. Please check the publisher part; you should accept it, if it is published by PLANET Technology Corp.

Internet	Explorer - Security Warning
Do you	want to install this software?
	Name: IPCamPluginMJPEG.cab
	Publisher: PLANET Technology Corp.
💙 Mo	re options Install Don't Install
:	While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. <u>What's the risk?</u>

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

P Camera - Microsoft Internet Explorer
File Edit View Favorites Tools Help
\bigcirc Back \checkmark \bigcirc \checkmark \textcircled{a} \textcircled{a} \textcircled{b} Search \checkmark Favorites \textcircled{b} \textcircled{a} \checkmark \textcircled{b} \textcircled{b} \textcircled{b} \textcircled{b}
Address 🗿 http://192.168.0.20/index.htm
PLANET MITCHOSS CHOS IP Camora
🌢 Camera 🍨 LAN 🍨 WLAN 🔸 E-Mail & FTP 🔹 Motion Detection 🍨 System 🍨 Status 🍨 Users 🍨 Log
Resolution: batDx480 Image Quality: Highest Max Framerate: 30 Frequency: 60 Hz Brightness: - 50 Contrast: 50 Muteness: 10 Penable Auto Exposure Approver
🙆 Done

(Example on ICA-107W)

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

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

LAN – Configure the LAN port.

WLAN – Configure the WLAN port. (ICA-107W Only)

E-Mail & FTP – Setup the E-Mail client and FTP client.

Motion Detection – Configure the Motion Detection here.

System – Configure the system settings here.

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

Users – The IP Camera support up to 4 user accounts. You can set those accounts here.

7.1. Camera Setting

IP Camera - Microsoft Internet Explorer
le Edit View Favorites Tools Help
3 Back - 💿 - 😠 😰 🏠 🔎 Search 📌 Favorites 🤣 🔗 - 头 🚍 🦓
ldress 🕘 http://192.168.0.20/index.htm 🔽 🄁 Go Links
PLANET WIReless CIMOS IP Camera
Resolution: eduX480 Image Quality: Highest Max Framerate: 0 Prequency: 00 HZ Ontrast: - 0.0 Saturation: - 0.0 Mitteness: - 0.0 Prable Auto Exposure
Done

(Example on ICA-107W)

Camera Setting	
Resolution	Select the desired video resolution. Available resolutions are: 640
	x 480, 320 x 240, and 176 x 144. The default resolution is CIF.
Image Quality	Adjust the video quality here.
Max Frame Rate	Set the video max frame rate. This camera can support at most
	30 frames per second.
Frequency	Adjust this property to fitting light frequency.
Brightness	You can adjust the brightness of the video. This value can be
	from 1 to 100.
Contrast	You can adjust the contrast by change this value. This value can
	be from 1 to 100.
Saturation	You can adjust the saturation by change this value. This value
	can be from 1 to 100.
Hue	You can adjust the hue by change this 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. IF this function
	is enabled, the Brightness, Contrast, Saturation, Hue and
	Whiteness adjustment would not take effect.
Apply	When you finish the setting, click this button to validate the setting
	values.

7.2. LAN Setting

🗿 IP Camera - Microsoft Internet Explorer	
Eile Edit View Favorites Iools Help	N
🚱 Back 🝷 🐑 - 💌 😰 🏠 🔎 Search 🕚	🐈 Favorites 🕢 🔗 - 🌺 🔜 🖓
Address 🕘 http://192.168.0.20/index.htm	So Links »
APLANET Wireless PL	IAS IP Camera
- camera -	LAN WULAN E-Mail & FIF Motion Detection System Status Disers Log
LAN	Apply
Network Type :	O DHCP Static IP Address
IP Address :	192.168.0.20
Subnet Mask :	255.255.255.0
Gateway :	192.168.0.254
Primary DNS :	168.95.1.1
Secondary DNS :	
Video Port :	4321
HTTP Port :	80
PPPoE	Apply
Enable PPPoE :	O Enable 💿 Disable
User Name :	
Password :	
• MTU :	1392 (512<=MTU Value<=1492)
Dynamic DNS	Apply
Enable DDNS :	○ Enable ⊙ Disable
Provider :	dyndns.org 🗸
Host Name :	ddns-host
User Name :	ddns-account
• Password :	00000000
UPnP	Apply
Enable UPnP :	C Enable ③ Disable
e	Internet

(Example on ICA-107W)

LAN	
Network Type	The IP Camera can obtain IP via DHCP protocol or specified a
	static IP Address to it.
IP Address	Enter an available IP Address within the range in your LAN.
Subnet Mask	The Subnet Mask field must match the subnet setting on your
	LAN. For example: 255.255.255.0.
Gateway	Please enter the default gateway of your LAN here.
DNS Server	Please enter your prefer DNS server here.
Video Port	The Video Port is used to transmit or receive the video stream.
	The default port setting is "4321". If you want to view the video
	from the camera, the port setting should be correct.

Web Port	The IP Camera support web connection, the default web port is
	80. If you change the web port from 80 to other port, such as
	8080, you must type <u>http://192.168.0.20:8080</u> to connect the
	camera through the web browser.
Apply	When you finish the "LAN" configuration, click "Apply" to apply the
	setting.

PPPoE	
Enable PPPoE	Enable or disable PPPoE function of the IP Camera.
User Name	Enter the User Name for the PPPoE account.
Password	Enter the Password for the PPPoE account.
MTU	Maximum Transmission Unit (MTU) is the largest frame that
	could be transmitted through the \ensuremath{PPPoE} connection. The MTU is
	specified in octets (eight-bit bytes). If there is no other request,
	please leave it as default value.
Apply	When you finish the "PPPoE" configuration, click "Apply" to apply
	the setting.
Dynamic DNS	
Enable DDNS	Enable or disable DDNS function of the camera.
Provider	Several companies provide DDNS service. The IP 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" configuration, click "Apply" to
	apply the setting.

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

7.3. WLAN (ICA-107W Only)

🗿 IP Camera - Microsoft Inte	rnet Explore	r							. 🗗 🗙
File Edit View Favorites T	ools Help								.
🌀 Back 🝷 🐑 🖌 📓	l 🏠 🔎	Search the F	avorites 🧭 🔗 -	🍓 🔜	23				
Address 🙆 http://192.168.0.20/in	idex.htm							🖌 🏹 Co	Links »
	reles :	s CMO	S IP Came	12					
	● C:	amera 🎴 LAN	🔍 WLAN 🗧 E-Mail & FT	'P 🎴 Motion	Detection	System 🖣 Status 🖣	Users 🏓 Log		
	Wireless L.	AN	Apply						^
	• Wireless (Connection :	O Enable 🧿	Disable					
	Network T	ype:	Infrastructure	~					
	🗕 Available I	Networks :	Refresh						
	Connect	SSID	MAC Address	Signal	Channel	Encryption	Network Type		
	0	8F	00:30:4F:04:1E:03	66	1	WEP	Infrastructure		
	0	11F	00:30:4F:43:4A:68	100	1	Unknown(TKIP)	Infrastructure		
	0	10F	00:30:4F:1F:74:55	100	3	WEP	Infrastructure		
	0	9F	00:30:4F:09:AD:B0	62	3	WEP	Infrastructure		
	0	12F	00:30:4F:1D:4A:C7	64	6	Disabled	Infrastructure		
	0	7F	00:30:4F:43:29:71	92	11	Unknown(AES)	Infrastructure		
	SSID :		any]			
	• Channel :		11 🗸						
	Basic Rati	9:	Auto 🔽						
	Authentica	ition :	None	~					
	Encryption Type :		None 🗸						
	WPA Pre-8	Shared Key :							
	WEP Key I	_ength :	64-Bit 💙	64-Bit 🗸					
	WEP Key I	Format :	HEX 🗸						
	Default Ke	iy :	1 🗸						
	WEP Key '	1:]					
	• WEP Key :	2 :							
	WEP Key 3	3 :]					
	• WEP Key	4 :							~

(Example on ICA-107W)

Wireless Setting	
Wireless connection	Enable or disable the wireless function of the IP 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 IP Camera and then only the
	device with the same SSID can interconnect to the IP Camera.
Channel	This setting is only available for Ad Hoc mode. Select the number
	of the radio channel used for the networking.
Basic Rate	The IP Camera will force to the data rate that you selected to
	transmit data.
Authentication and	Choose the security setting of your wireless network.
Encryption Type	The ICA-107W supports: "None", "Open System", "Shared Key"
	and "WPA-PSK". When you select "WPA-PSK" authentication,
	you can encryption your wireless 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
	node in the wireless 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	Enter the WEP key you want to use here.
Apply	When you finish "WLAN" configuration, click this button to apply
	the setting.

7.4. E-Mail and FTP

The "E-Mail & FTP" lets you setup E-Mail client and FTP client that camera can sent image to your e-mail account or FTP server when Motion has been detected.

🗿 IP Camera - Microsoft Internet Explorer		
File Edit View Favorites Tools Help		
🚱 Back 🔻 🐑 - 💌 😰 🏠 🔎 Search 🌟 Favorite:	ss 🤣 🖾 - 🌺 🚍 🦓	
Address ahttp://192.168.0.20/index.htm		🖌 🄁 Go 🛛 Links 🎽
PLANET WITCHESS CIMOS I	P Gamera	
Camera ILAN VL/	AN 🔸 E-Mail & FTP 🔹 Motion Detection 🍨 System 🌲 Status 🎐 Users 🍨 Log	
E-Mail	Apply Send a test email	
Recipient E-Mail Address :		
SMTP Server :		
Sender E-Mail Address :		
SMTP Authentication :	🔿 Enable 💿 Disable	
User Name :		
Password :		
FTP Configuration	Apply Upload a test file	
FTP Server :		
FTP Port :	21	
User Name :		
Password :		
Remote Folder :		
Passive Mode :	💿 Enable 🔘 Disable	
e Done		Internet

(Example on ICA-107W)

Email & FTP	
Recipient E-Mail Address	The IP Camera supports "Motion Detection" function. Enter the
	E-Mail Account for receiving the alert mail.
SMTP Server	Enter the SMTP Server for sending the E-Mail.
Sender E-Mail Address	Specified the e-mail address of the e-mail sender.
SMTP Authentication	Enable or Disable the SMTP Authentication function
Username	When Authentication is enabled, please input the SMTP
	Username here.
Password	When Authentication is enabled, please input the account
	password here.
Send a Test Email	Press this button to send a test e-mail. You can use this function

	to test if your setting is correct.
FTP Server	The IP Camera supports "Motion Detection" function. When
	Motion Detection event occurred, you can record the pictures to
	FTP server. Enter the FTP address for uploading the pictures.
FTP Port	Enter the FTP port that the FTP server uses.
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 image.
Password	When Authentication is enabled, input the account password.
Passive Mode	If your IP Camera is behind the NAT, you usually need to enable
	this feature.

7.5. Motion Detection

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

D Camera - Microsoft Internet Explorer		
File Edit View Favorites Tools Help		
	<u>A. J. = %</u>	
Address 🕘 http://192.168.0.20/index.htm		💙 🄁 Go 🛛 Links 🂙
PLANET WIRELASS CHIOS IP Cal		
Vetworking & Commiscator		
Camera LAN WLAN E-M	all & FIP • Motion Detection • System • Status • Users • Log	
Motion Detection	Apply	
Enable Motion Detection :	O Enable 💿 Disable	
Motion Detection Interval :	5 seconds	
Threshold :	3	
Send snapshot file to E-Mail :	Ves 🖲 No	
E-Mail Subject :	Motion Detection Notification	
Send snapshot file to FTP :	Ves 💿 No	
Done		Internet

(Example on ICA-107W)

Motion Detection	
Motion Detection Enable	Enable or Disable the Motion Detection Function.
Next Event Detected	Setup the interval between two events. For example, if you setup
Interval	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	Select "Yes" to send the alert email with the recorded image to
E-Mail	the e-mail account that you had specified in the "E-Mail & FTP"
	page.
E-Mail Subject	Specify the subject of motion detection alert e-mail.
Send snapshot file to FTP	Select "Yes" to send the recorded video file to your FTP server
	that you had specified in the "E-Mail & FTP" page.

7.6. System

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

🗿 IP Camera - Microsoft Internet Explorer		
File Edit View Favorites Tools Help		
🔇 Back 🔹 🕥 🐇 😰 🏠 🔎 Search 📌 Favorite	s 🤣 🍰 🔜 🦓	
Address 🗃 http://192.168.0.20/index.htm		🖌 🄁 Go 🛛 Links 🂙
PLANET Wireless CMOS I	<mark>P Gamara 🖉 🌾 🌨</mark>	
Camera Information	An E-Mail & FIF Motion Detection System Status Users Log	
Camera Name :	ICA-107W	
Password :		
Confirm Password :	•••••	
Date / Time Setting	Apply Synchronize to PC time	
Set Date/Time manually		
NTP Server		
Time Zone :	(GMT+08:00) Taipei	
NTP Server :	pool.ntp.org	
Utilities		
Upgrade Firmware :	Upgrade Firmware	
 Reset To Factory Defaults : 	Reset	
Reboot Device :	Reboot	
LED Setting :	Turn off LED light	
l 🙆 Done		Internet

(Example on ICA-107W)

System	
Camera Name	The default camera name is "ICA-107(W / P)". It is recommended
	to name a meaningful name for the IP Camera.
Password	Enter the password for the default account. The password should
	be 4 digits.
Confirm Password	Enter the password again to confirm the setting.
Set Date/Time manually	You can set the IP Camera's Date/Time manually. Or you can
and Synchronize to PC	just click on the Synchronize to PC time to let the IP Camera
time	synchronize its time to your PC automatically.
NTP Server (Radio Box)	To enable the NTP function.
Time Zone	Select the time zone where your camera is located.
NTP Server	Specify the IP Address of the NTP Server here.

Upgrade Firmware	You can upgrade the IP 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 settings to factory default, please use
	this function to fulfill your task.
Reboot Device	To reboot the IP Camera, click "Reboot".
LED Setting	If you wan to secure the IP Camera from noticing, you can turn off
	the LED light by clicking "LED Light OFF". To turn on the LED
	light, just click "LED Light ON".

7.7. Status

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

🗿 IP Camera - Microso	oft Internet Explorer		JJX
<u>File E</u> dit ⊻iew F <u>a</u> vor	rites <u>T</u> ools <u>H</u> elp		.
😋 Back 🔹 🌍 🗉 [👔 🛃 🏠 🔎 Search 🤸	Favorites 🤣 😥 🔜 🦓	
Address 🕘 http://192.168	8.0.20/index.htm	💙 🋃 Go	Links »
PLANET	Wireless CMG	IS IP Camera	
Velvorking & Commencation	• Camera • LAI	N * WLAN * E-Mail & FTP * Motion Detection * System * Status * Users * Log	
	Status		^
	• Firmware Version :	v1.26 (Jun 27 2007 15:33:08)	
	Device Uptime :	2 hours 10 min 18 sec	
	System Time :	2000/01/01 10:10:18	
	LAN		
	IP Address :	192.168.0.20	
	Subnet Mask :	255.255.255.0	
	Gateway :	192.168.0.254	
	DNS Server :	168.95.1.1	
	MAC Address :	00:30:4F:DF:7A:9C	
	Video Port :	4321	
	HTTP Port :	80	
	PPPoE		
	Link Status :	Disconnected	
	IP Address :		
	Subnet Mask:		
	Gateway:		
	DNS Server:		
) E Done		Internet	

(Example on ICA-107W)

7.8. Users

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

🚰 IP Camera - Microsoft Internet Explorer		
File Edit View Favorites Tools Help		
🔇 Back 🔹 🕥 - 💌 😰 🏠 🔎 Search 🌟 Fa	vorites 🚱 🍰 🥁 😹	
Address 🕘 http://192.168.0.20/index.htm		🗸 🏹 Go 🛛 Links 🎽
PLANET WITCHESS CHOS	l IP Camora 🛛 🖍 🚔	
🧧 Camera 🔎 LAN 🦿	📕 WLAN 👎 E-Mail & FTP 👎 Motion Detection 👎 System 👎 Status 👎 Users 🍨 Log	
Users		
• User 1 :	O Enable 💿 Disable	
Login :		
Password :		
Confirm password :	Apply	
• User 2 :	O Enable 💿 Disable	
• Login :		
Password :		
Confirm password :	Apply	
• User 3 :	O Enable 💿 Disable	
Login :		
Password :		
Confirm password :	Apply	
• User 4 :	CEnable Obisable	
Login :		
Password :		
Confirm password :	Apply	
E Done		S Internet

(Example on ICA-107W)

User 1 / 2 / 3 / 4	
User #	Enable or Disable the user number #.
Login	Enter the login name of the user account.
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.

7.9. Log

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.



(Example on ICA-107W)

Log	
Log screen	The screen will show event and event time of device.
Refresh	You can press "Refresh" button to refresh the log screen.

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 Lens: f: 2.8mm, F=1.8

Image (Video Setting)

Image compression: MJPEG Image Video Digital 24-bit Color Frame rate: Up to 30fps 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(ICA-107W Only) PoE: 802.3af(ICA-107P Only) LED Indicator: LAN LED, WLAN LED (ICA-107W Only), Power LED Power Supply: 12V / 1A (ICA-107W) Power Supply: 12V / 0.4A (ICA-107 / ICA-107P)

EMI & Safety

FCC, CE!

Appendix A Router/Gateway Setup for Internet Viewing

To view IP Camera across the Internet, you have to make sure Router/Gateway has configured to pass incoming TCP/UDP connections from remote PC to the IP Camera. The Router/Gateway should set port forwarding or virtual server for the connections. Please see the illustration as below.



Router/Gateway Port Forwarding/Virtual Server Setup

Name	Protocol	Port	LAN IP
Setup 1	TCP	80	192.168.0.20
Setup 2	TCP	4321	192.168.0.20

Port Definition	
Setup 1	It is the port of Web port. You have to configure the protocol to "TCP".
Setup 2	It is the port of Video port. You have to configure the protocol to "TCP".
Viewing Internet Camera	via Web Browser
Setup 1/Setup 2	If you want to view the video via Web Browser, you have to
	ensure the Router/Gateway has configured setup1 and setup 2. If
	the web port is not default port "80", but changed to 8080. The
	remote user has to enter http://210.66.155.85:8080.
Viewing Internet Camera	via Camera Viewer Utility
Setup 2	If you want to use IP Camera Viewer Utility to view the camera,
	please make sure the Router/Gateway has configured setup2.

10. Appendix B Viewing via UPnP in Windows XP

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 My Network Place, so you can double click the camera or right click the camera and select "Invoke" to view the video through web browser.



Connect to 192.1	68.0.20 🛛 🖓 🔀
	GFT
Internet Camera User name: Password:	
	Remember my password OK Cancel

Enable UPnP in Windows XP SP2

If you can't find the IP Camera in the My Network Place or you have seen the following message when you double click the IP Camera. You have to check if UPnP function is blocked by the firewall. Please follow the steps below to enable it.

Device Offline	
<u>^</u>	The device you are trying to use is not currently available on your network. Check to see if the device is on the network and try again.
	OK]

- 1. Go to "Start\Settings\Network Connections".
- 2. Right click the "Local Area Connection" and select "Properties".
- 3. In the "Local Area Connection Properties", select "Advanced" option menu and click "Settings".

🕹 Local Area Connection Properties 🛛 🔹 🔀		
General Authentication Advanced		
Windows Firewall Protect my computer and network by limiting or preventing access to this computer from the Internet		
If you're not sure how to set these properties, use the <u>Network Setup Wizard</u> instead.		
OK Cancel		

4. The "Windows Firewall" screen will be popped up, select "Exceptions" option menu.



5. Enable "UPnP Framework" from the "Programs and Services list" and click "Ok".

🖗 Windows Firewall	×
General Exceptions Advanced	
Windows Firewall is blocking incoming network connections, except for the programs and services selected below. Adding exceptions allows some programs to work better but might increase your security risk.	
Programs and Services:	
Name	
 ✓ calldli ✓ calldli ☐ File and Printer Sharing ✓ Network Ports Quick Setup ✓ PSAdmin ✓ Remote Assistance ☐ Remote Desktop ✓ UPnP Framework ✓ util 	
Add Program Add Port Edit Delete ✓ Display a notification when Windows Firewall blocks a program	
What are the risks of allowing exceptions?	
OK Cancel	

11. Appendix D Configure Windows 2003 Server

Graphics Hardware Acceleration and DirectX are disabled by default on a Server configuration to ensure maximum stability and uptime. But for any reason you need to enable them to use DirectX enabled applications this section will guide you through on how you can do it.

Display Properties	<u>?×</u>
Themes Desktop 9	Screen Saver Appearance Settings
	Plug and Play Monitor and RADEON 7200 (Microsoft Corporatio ? × General Adapter Monitor Troubleshoot Color Management
	Are you having problems with your graphics hardware? These settings can help you troubleshoot display-related problems.
Display: Plug and Play Mon	Hardware acceleration Manually control the level of acceleration and performance supplied by your graphics hardware. Use the Display Troubleshooter to assist you in making the change.
Screen resolution Less 1024 by 7i	Hardware acceleration: None Full All accelerations are enabled. Use this setting if your computer has no problems. (Recommended)
	☑ Enable write combining
	OK Cancel Apply

Enabling Graphics Hardware Acceleration

- Simply right click anywhere on your desktop and select Properties -> Settings tab -> Advanced -> and finally, the Troubleshoot tab.
- 2. Now move the Hardware acceleration slider across to Full
- 3. Click OK
- 4. You may experience a monitor black out for a few seconds, this is normal.

Enabling DirectX

DirectX Diagnostic Tool	
System DirectX Files Display Sound Music Input Network More Help	
Device	Drivers
Name: RADEON 7200 (Microsoft Corporation)	Main Driver: ati2dvag.dll
Manufacturer: ATI Technologies Inc.	Version: 6.13.0010.6153 (English)
Chip Type: Radeon 7200 AGP (QD)	Date: 25/03/2003 02:47:46
DAC Type: Internal DAC(350MHz)	WHQL Logo'd: Yes
Approx. Total Memory: 64.0 MB	Mini VDD: ati2mtag.sys
Current Display Mode: 1024 × 768 (32 bit) (85Hz)	VDD: n/a
Monitor: Plug and Play Monitor	DDI Version: 8
DirectX Features DirectDraw Acceleration: Enabled Direct3D Acceleration: Enabled Disable	
AGP Texture Acceleration: Enabled Disable	
Notes	
To test DirectDraw functionality, click the "Test DirectDraw" button above. To test Direct3D functionality, click the "Test Direct3D" button above.	e.
Help <u>N</u> ext Page	<u>Save All Information</u> E <u>x</u> it

- Click on Start -> Run -> and type dxdiag followed by enter. You will get a dialog box asking if you want to allow dxdiag to access the internet to check for valid WHQL certificates - click on Yes.
- 6. Let's click on the Display tab, now click on all three boxes to enable DirectDraw, Direct3D and AGP Texture Acceleration.