

Internet Camera

ICA-500

User's Manual



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Revision

User's Manual for PLANET Pan / Tilt Internet camera:

Model: ICA-500

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Part No. EM-ICA500V2

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Chapter 1 Introduction



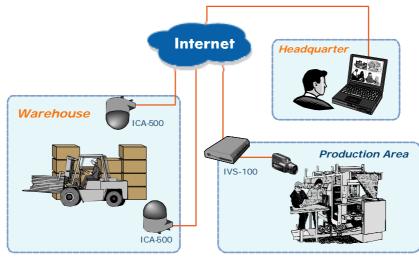
This Chapter provides details of the ICA-500's features, components and capabilities.

Overview

As broadband communication gets more and more popular, it becomes easier to transfer video and audio through network. Traditional surveillance system is gradually evolving to be deployed in packet switching TCP/IP network. PLANET ICA-500 provides an advanced digital solution of Internet Camera with pan and tilt capability to meet more application demands. It supports wired Ethernet networking. ICA-500 can be placed either in a LAN or an available xDSL/Cable modem connection. ICA-500 also supports DDNS. With its Plug-N-Watch capability, a network administrator or system operator can seamlessly complete network deployment in simply minutes.

Combining 1/3 inch color CCD sensor with the advanced motion JPEG video compression technology, sharp, high-quality video is digitized and delivered by the advanced microcomputer in ICA-500. The high quality of M-JPEG files brings vivid images, which are suitable for surveillance applications.

Motion detection is a powerful function enhanced in ICA-500. If a motion is detected in surveillance spot, this function will capture images, attach them in an email, and alert the system administrator via pop-up message. With bundled camera utility, centralized management (up to 16 cameras) can be fulfilled to save TOC for enterprise users.



ICA-500/IVS-100 applications

Features

• Pan and Tilt capability

ICA-500 is able to perform PAN (0° ~325°) and tilt (10° ~90°) adjustment, which brings more convenience and flexibility in network deployment.

• Ease of use

Plug-N-Watch capability to simplify system integration in an existing network environment

• Meeting SOHO, business, or public facilities surveillance needs

ICA-500 can be deployed in many different situations, such as library, train station or factory production line to provide efficient, human-resource reducing, and offers flexibility, affordability, and reliability for the proper surveillance of manufacturing facilities.

Multi-Platform support

Supporting TCP/IP networking, SMTP e-mail, and HTTP public network standards, ICA-500 can be applied and utilized to a mixed IP network environment.

Motion Detection

This feature will send you alert message when motion is detected. The ICA-500 will compare consecutive frames to detect changes caused by the movement of large objects.

Audio Support

With built-in microphone, the voice around can be recorded with live image.

Internet Features

User-definable administration port number.

This allows Internet Gateways to use "port mapping" so the ICA-500 a and a Web Server can share the same Internet IP address.

DDNS Support

In order to view video over Internet, user must know the Internet IP address of the gateway used by ICA-500. An easy-to-remember DDNS (Dynamic DNS) name will help you memorize your site more easily.

NTP (Network-Time-Protocol) Support

NTP allows the ICA-500 to calibrate its internal clock from an Internet Time-Server. This ensures that the time stamp on the recorded video from the ICA-500 will be correct.

Security Features

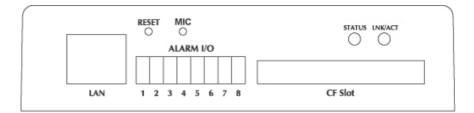
User Authentication

If desired, the camera access can be restricted to known users. Users will have to enter their username and password before being able to view the video stream. Up to 10 users can be entered.

IP filter

The camera access not only can be restricted by username/password, but also can be limited by the IP range to bring users more security.

Physical Details



ICA-500 Rear Panel

Use a standard LAN cable to connect your ICA-500 to a 10/100BaseT hub or switch.			
ICA-500 provides a terminal block with 8 pins of connectors located on the center of the back panel. There are 3 pins for two alarm inputs and 5 pins are for alarm output. The I/O connectors are physical interface to sense and/or activate alarm signals to a variety of external sensors or alarms.			
Built-in microphone for audio recording. The audio recording feature can be disabled in the web configuration.			
 The RESET button is used for Restore Default IP Address, Administrator ID, and Administrator password. IP address: 192.168.0.20 Administrator ID: admin Administrator Password: null (no password) Reset steps: Power off the Network Camera. Insert the paper clip or other tool and press and hold the button down continuously. Power on the Network Camera again. Wait at least 8 seconds and release the tool. Then the Network Camera has been restored to default settings. Note: Restoring the factory default configurations will lose the existing machine settings. User needs to access machine default IP address or use the IP Finder program to search the Network Camera for configuration and operations. 			

Package Contents

The following items should be included: If any of these items are damaged or missing, please contact your dealer immediately.

- Planet ICA-500 Network Camera x 1
- Power adapter x 1
- Power cord x 1
- Decoration ring x 1
- Screw x 4
- Terminator for Alarm I/O x 1
- Installation software and manual CD x 1

Chapter 2 Basic Setup



This Chapter provides details of installing and configuring the ICA-500.

System Requirements

- To use the LAN interface, a standard 10/100BaseT hub or switch and network cable is required.
- System Requirement for Viewer & Recorder:

System	1-4 cameras surveillance application
Hardware	• CPU: Pentium III, 800 MHz or above
	 Memory Size: 128 MB (256 MB recommended)
	• VGA card resolution: 1024 x 768 or above
	4 or more cameras surveillance application
	• CPU: Pentium 4, 1.7G MHz or above
	Memory Size: 512 MB or above
	• VGA card resolution: 1024 x 768 or above

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

Installation

1. Mount the Camera on the supplied Base and Stand.

Use 4 screws to fix the ICA-500 onto the ceiling as below. You can also put the Network Camera on the table directly.



ICA-500 Installation

2. Connect the LAN Cable

Connect the ICA-500 to a 10/100BaseT hub or switch.

3. Connect power adapter

Connect the external power supply to the DC power connector attached on the extension cable from the Network Camera. Note: use the power adapter, 12VDC, included in the package and connect the other end to wall outlet for AC power.



4. Power Up

Connect the supplied power adapter to the ICA-500 and power up. Use only the power adapter provided. Using a different one may cause hardware damage.

5. Check the LEDs

• When powering on machine, the status LED will turn green. It means the system is booting up successfully. Furthermore, if you have a proper network connection, and access to the ICA-500, the 10/100M LAN LED will flash orange

Setup

Initial setup can be performed either from the web browser or using the supplied Windows-based camera utilities. This program can locate the ICA-500 even if its IP address is invalid for your network. You can then configure the ICA-500 with appropriate TCP/IP settings for your LAN.

Subsequent administration can be performed with your Web browser, as explained in *Chapter 3 - Web-based Administration*.

Setup Procedure

Before setup operations

The ICA-500 provides GUI (Web based, Graphical User Interface) for machine management and maintenance.

To start ICA-500 web configuration, the requirement of the web browser should be: Microsoft Internet Explorer 6.0 or higher with Java support

I) Note

Current firmware supports Microsoft Internet Explorer, the Netscape Navigator support is planned in the future firmware release

Default LAN interface IP address of ICA-500 is **192.168.0.20**. You may now open your web browser, and insert http://192.168.0.20 in the address bar of your web browser to logon ICA-500 web configuration page.

ICA-500 will prompt for User Name and Password, please enter: *admin* as username to continue machine Web Management.



Or you may execute IPEditV3 to discover/edit IP address of ICA-500.

Procedures of IPEdit utility

- Please find the IPEditV3.exe in the Utility folder on user's manual CD
- Double-click the **IPEditV3.exe** and the following screen should be prompt on your computer.
- Choose the destination camera for IP address and device name modifications

ICA-500	Namo		ICA	-500	
	Gatoway	0	0	0	0
	IP	192	168	σ	20
	Netmask	255	255	255	0
	HTTP Port1		0	0	
	HTTP Port2				
	MAC	00:	30:4F	03:FF	FC
Update Sub You can change camera name, IP addre 1) Select the Camera you want to ma 2) Change name, Gateway, IP address 3) Press Submit button or Enter 4) Press Update to rescan the insta	ess, and Gatewa te change , and Netmask o			Exit t box	

• After modifications, you may now connect the camera via web browser.

Chapter 3



Advanced Viewing Setup

This Chapter provides information about the optional settings and features for viewing video via the ICA-500. This Chapter is for Administrators only.

Introduction

After finishing the network setup, the ICA-500 can immediately be used by all users on your LAN.

This chapter describes some additional settings and options for viewing live Video:

- Adjusting the video image
- Controlling user access to the live video stream
- Making video available from the Internet

Adjusting the Video Image

If necessary, the ICA-500 Administrator can adjust the Video image. Settings are provided for:

- Image size Select the desired size. The larger sizes require greater bandwidth.
- **Image quality** This determines the degree of compression applied to the Video stream. Higher quality requires greater bandwidth.
- Saturation, Sharpness, Contrast, Hue adjustment -

To Adjust the Video Image:

- 1. Connect to the Web-based interface of the ICA-500.
- 2. On the *Administration* menu, select *Image*. You will see a screen like the example below.

	Camera Sett	ling
Image Size	320x240	
Image Quality	Standard 💌	
Image	Calar Monochrame	
Mirror	Normal Reversed	
Focus Mode	· · · · · ·	
White Balance Mode		
Exposure Mode	Pad antes	
Saturation	127 (0~255)	
Sharpness	127 (0~255)	alter and
Contrast	127 (0~255)	
Hue	127 (0~255)	
Camera Tour	ON OFF SETTOUR	
Reset to Default	●YES ●NO	

Camera setting

3. Make the required adjustments, as explained below, and save your changes.

Video Settings			
Resolution	Select the desired video resolution. The default resolution is set to 320*240.		
	Available resolution: • 176x144 • 320x240 • 352x288 • 640x480		
Image Quality	Select the desired image quality. The default Image Quality is set to Standard.		
	Available selection:		
	Clarity: Video is better but frame rate may be slower		
	• Fluency : Video is not as good as Clarity but frame rate may be higher		
	Standard: System default value. Note: Higher image quality requires more bandwidth.		
Saturation, Sharpness, Contrast, Hue	Image quality adjustment, the parameter ranges from 0 to 255		
Options			
Camera tour	Enable the check box if you want the time to be displayed on the Video image.		
Reset to default	If this option is enabled, all the settings in this page will be reset to factory default values.		



Please check the appendix B for more information on the image adjustment.

Controlling User Access to the Video Stream

By default, only system administrators can connect to the ICA-500 and view live Video.

If desired, you may apply the access privileges to known users, by requiring each user to login to the ICA-500 with their individual username and password.

To Enable this feature:

- 1. Connect to the Web-based interface of the ICA-500. (Please check related chapters for details.)
- 2. In machine Administration menu, select User.
- 3. You may add up to 10 users in machine database, choose the user number, and enter the name, password and access right for each user.



User Setting Screen

Operation

- When each user connects, they will be prompted for their username and password. They must enter the name and password defined on the User screen above.
- The camera system administrator can have full access/system modification privileges; the user only has viewing privilege.

Making Video available from the Internet

If your LAN is connected to the Internet, typically by a Broadband Gateway/Router and Broadband modem, you can make the ICA-500 available via the Internet.

ICA-500 Setup

The ICA-500 configuration does NOT have be changed, unless:

- You wish to change the port number from the default value (1024).
- You wish to use the DDNS (Dynamic DNS) feature of the ICA-500.

Second HTTP Port Configuration

Normally, HTTP (Web) connections use port 80. Since the ICA-500 uses HTTP, but port 80 is likely to be used by a Web Server, you can use a different port for the ICA-500. This port is called the "**HTTP Port2**". (The first port is port 80.)

The HTTP port2 is disabled in default settings. If you prefer to use a different port number than port 80, you can specify the port number on the ICA-500's **Network** screen, as shown below.

Network Setting			
DHCP	• on	© OFF	
IP address	192.168.0.20		
Subnet mask	255.255.255.0	l	
Default gateway	192.168.0.254	•	
MAC address	00:30:f0:03:ff:	fe	
Primary DNS	0.0.0.0		
Secondary DNS	0.0.0.0		
HTTP Port 1	80		
HTTP Port 2	0		
DDNS	DDNS Se	tting	
PPPoE	PPPoE S	etting	
	SAVE	CANCEL	

Network Screen

The *Network* screen is part of the Web-based Administration interface. See **Web-based Management** for further details on using this interface.

Hint

Viewers need to know this port number in order to connect and view live Video, so the current communication port number has to be informed to the remote users to connect to.

DDNS (Dynamic DNS)

Many Internet connections use a "Dynamic IP address", where the Internet IP address is allocated whenever the Internet connection is established.

This means that other Internet users don't know the IP address, so can't establish a connection.

DDNS is designed to solve this problem, by allowing users to connect to your LAN using a domain name, rather than an IP address.

To use DDNS:

- 1. Register for the DDNS service with a supported DDNS service provider. You can then apply for, and be allocated, a Domain Name.
- Enter and save the correct DDNS settings on the *DDNS Setting* screen in the *Network* setting menu.
- 3. Operation is then automatic:
 - The ICA-500 will then automatically contact the DDNS server whenever it detects that the Internet IP address has changed, and inform the DDNS server of the new IP address.
 - Internet users can then connect to your LAN using the Domain Name allocated by the DDNS service provider.
 - Limitation: if the ICA-500 is installed with private IP address behind the NAT router, please find and enable the DDNS feature on the router. This can prevent the remote users not able to connect to the camera.
 - Current supported DDNS service provider: <u>www.dyndns.org</u> , <u>www.no-ip.com</u>T

DDNS Setting			
Enable DDNS	ON OFF		
Username			
Password			
Domain Name			
HTTP Proxy			
Proxy Username			
Proxy Password			
SAVE CANCEL BACK			

DDNS Setting Screen

Router/Gateway Setup for remote viewing

Your Router or Gateway must be configured to pass incoming TCP (HTTP) connections (from remote viewers) to the ICA-500. The Router/Gateway uses the *Port Number* to determine which incoming connections are intended for the ICA-500.

This feature is normally called *Port Forwarding* or *Virtual Servers* in the router. The Port Forwarding/Virtual Server entry tells the Router/Gateway that incoming TCP connections should be passed to the ICA-500. If necessary, check the user manual for your Router/Gateway for further details.

Hint

The "Port" for the *Port Forwarding / Virtual Server* entry above is the "Second Port" number specified on the *Network* screen of the ICA-500.

Viewing via the Internet

Clients (viewers) will need a broadband connection; dial-up connections are NOT recommended.

Using your Web Browser

If using your Web browser, you need to know the address of the camera (either the Internet IP address or the Domain name) and the correct communication port number.

Enter the address of the ICA-500, and its port number, in the *Address* (or *Location*) field of your Browser.

Example - IP address:

HTTP://203.70.249.52:1024

Where the Router/Gateway's Internet IP address is 203.70.212.52 and the "HTTP **Port2**" number on the ICA-500 is 1024.

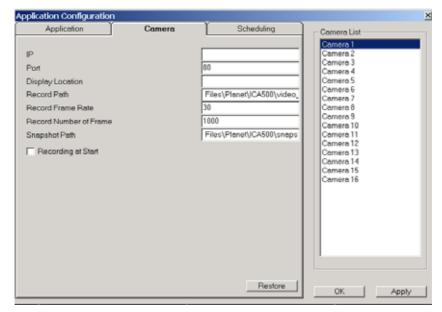
Example - Domain Name:

```
HTTP://ica500.dyndns.org: 1024
```

Where the Router/Gateway's Domain name is ica500.dyndns.org and the " **HTTP Port2**" number on the ICA-500 is 1024.

Using the Windows Viewing/Recording Utility

If using the CamView Utility, the details of the ICA-500 must be entered on the *Internet* tab of the *Add Camera* screen.



CamView - Add Camera Screen

You can then select the camera in the *Cameras* list on the main screen, and click **OK** to establish a connection and view live video.

Please check *respective chapter* for further details of viewing Video using either the Windows Viewing/Recording utility or Web Browser.

Chapter 4

4

Web-based Management

This Chapter provides Setup details of the ICA-500's Web-based Interface. This Chapter is for Administrators only.

Introduction

The ICA-500 can be configured using your Web Browser. The ICA-500 must have an IP address, which is compatible with your PC.

Connecting to ICA-500

 If you have run the CamView utility, the screen provided a button this button will immediately connect to the ICA-500.



- If using only your Web Browser, use the following procedure to establish a connection from your PC to the ICA-500:
- Once connected, you can add the ICA-500 to your Browser's Favorites or Bookmarks.

Connecting using your Web Browser

- 1. Start your web browser.
- 2. In the *Address* box, enter "HTTP://" and the IP Address of the ICA-500, as in this example, which uses the ICA-500's default IP Address:

HTTP://192.168.0.20

- 3. Default username/password for machine login: admin/ <no password>
- 4. If the *Administrator ID* and *Password* have been assigned, enter the name and password you assigned.



Welcome Screen

When you connect, the camera Home screen will be displayed.



Camera Home Screen

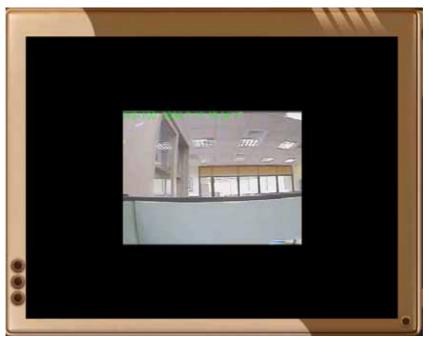
The Home screen can be divided into three areas:

- Viewing Area Images from the Network Camera
- Control Panel Area Network Camera Manipulation and image quality control
- Advanced Configuration area only available for administrator. Camera administrator can have full configuration in this menu.

These options are explained in the following sections.

Viewing Area

This screen is displayed when you log in machine



Viewing Area Screen

- The ICA-500 web page requires ActiveX control to display the video content. The ActiveX control must be downloaded from the camera and installed on your PC.
- The security settings on the Internet Explorer must allow the ActiveX plug in to be functional.
- To use the ICA-500, please execute your Internet Explorer and browse to "Tools"
 → "Internet Options..." → "Security" → "Custom Level..." and change the settings as follows:
 - Download the signed ActiveX controls
 - Download the unsigned ActiveX controls
 - Initialize and script the ActiveX controls not masked as safe to Prompt
- After the ActiveX installation completed, video content will start playing automatically. Due to various network conditions, the video display may be a delay of a few seconds while the video stream is buffered.

Control Panel Screen

When you connect, the camera *control panel* screen will be displayed.



Camera Control Panel Screen

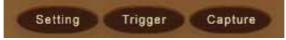
The function on the control panel can be shown below:

Button	Definition
Camera Direction	Control camera up/down/left/right and home position
Camera Speed	Increase/decrease the camera Pan/Tilt speed
Recall/Preset mode	Preset: set up camera fixed locations before operation Recall: Set camera position to preset location
Video Resolution	Adjust Video resolution The ICA-500 provides 4 resolutions: 640x480, 352x288, 320x240, 176x144 For NTSC camera: 320x240 is suitable For PAL camera: 352x288 and 176x144 are suitable However, all resolution are available for NTSC and PAL camera
Preset or Recall positions	Preset or Recall camera 1~16 location(s) Ex. If you press 5, then the camera will move to preset location 5.
Video Brightness Adjustment	Adjust Camera video brightness
Image quality	Adjust image quality. Clarity: Video is better but frame rate may be slower Fluency: Video is not as good as Clarity but frame rate may

	be higher Standard: System default value		
Frame rate adjustment directly	Adjust video frame rate via giving a number directly. 1, 5, 10, 15, 20, 25, 30		
Audio On/Off	Turn on/off audio output function. Note : The Microphone is located on the rear panel. You need to position the MIC hole face to the audio source to have better audio quality.		

Advanced Configuration Area

The *Advanced Configuration* menu offers more features and camera control privileges to meet various application demands.



Advanced Configuration Screen

The ICA-500 Advanced Configuration page divided into three sub-menus:

- Camera Advanced Setting
- Camera Trigger Setting
- Screen capture Setting

Respective menu descriptions are illustrated in the following sections.

Camera Advanced setting Menu

Clicking on Setting on the menu provides privileges to all the settings for the ICA-500.

The Advanced Setting menu is divided into 2 categories: Basic and Application settings:

The Basic menu provides essential configurations of the ICA-500, and the Application menu is provided for various applications.

Basic Setting

Parameters in the Basic configuration menu provide machine adjustment; the available configurations are listed below:

lcon	Menu Link	Definition
	System	Define Frame Rate, Turn on/off "Remote camera control", and view system log file.
\odot	Camera	Adjust camera parameters and set camera tour
\triangleright	Network	Configure Network setting such as DHCP On/Off, DDNS and PPPoE

Ŕ	User	Setup user name, password and login privilege
8	IP Filter	Setup legal IP address of user login (This function should be used with function "User" respectively)
শ্ব	Event	Define the event from Motion detection and sensors for security purpose

System Screen

After entering machine Home screen, click on the *System* menu, you will see a screen like the example below.

System Setting		
Serial Number		
Camera Name	ICA-500	
Default frame rate	30 🔽	
Remote camera contr	DI OON OFF	
Log	View	
	······	
	SAVE CANCEL	

System Screen

System Settings		
Serial Number	Product serial number	
Camera Name	This displays the name for the ICA-500; camera name is useful while multiple unit installation.	
Default frame rate	The default frame rate in ICA-500 is 30fps, the video frame rate can be adjusted in this menu or on the Control panel menu	
Remote camera control:	Enable or disable remote control feature in ICA-500	
Log	Administrator can check the log information in machine, including the Main Info, Appended Info, Operator IP, Operator MAC, and Time.	
	Select the "View" button to check the log file.	

Data - System Screen

Camera Screen

This screen is displayed when the Camera menu option is clicked.

Note: please adjust carefully to have proper machine configurations.

	С	amera Setting
Image Size	320×240 💌	
Image Quality	Standard 💌	
Image	© Color 🛛 🔍 Monochrome	
Mirror	😳 Normal 🛛 🔍 Reversed	
Focus Mode	inster 💌	
White Balance Mode	Auto 🔻	
Exposure Mode	Fad auto	1
Saturation	127 (0~255)	
Sharpness	127 (0~255)	and the second
Contrast	127 (0~255)	
Hue	127 (0~255)	
Camera Tour	ON OFF SET	TOUR
Reset to Default	●YES ●NO	

Camera Screen

Data - Camera Screen			
Camera Settings	Camera Settings		
Image Size	Display resolution selection, supported resolution in ICA-500:		
	• 176x144		
	• 352x288		
	• 320x240		
	• 640x480		
	Please check the available network upload bandwidth and carefully select the proper video resolution.		
Image Quality	Video display quality selection in ICA-500:		
	Clarity: Video is better but frame rate may be slower		
	 Fluency: Video is not as good as Clarity but higher frame rate 		
	Standard: System default value		
	Note : The value on the list box displays the current setting all the modifications will not take effects until it is saved in this menu.		
Image, Rotate, Mirror, Focus Mode, White Balance	These functions are reserved for future product developing. They are not functional in ICA-500.		

I

Saturation, Sharpness, Contrast, Hue	Key in respective value for image adjustment. It is not required to adjust this value when the image is vivid.	
Camera Tour	To use the camera tour function, user must preset some camera positions first.	
	Select the " SET Tour " button to enter the Camera Tour setting page.	
Reset to Default	Restore the values of these pages to factory default value.	

Camera Tour

In the Camera Tour page, choose the one tour name. Fill the dwelling time and tour sequence by preset points, can repeat above procedure to set more camera tours.



Camera Tour Screen

Data – Camera Tour Screen

Camera Tour Settings		
Tour Name	Choose the one tour name from A to E	
Dwelling Time	The time period between every tour point.	
Sequence	16 points can be assigned.	
Enable	Enable camera tour group should be activated	

(i) Hint

To use the camera tour function, user must preset some camera positions first. The maximum number of preset points is 16.

In the Camera Tour page, choose the one tour name from A to E. Fill the dwelling time and tour sequence by preset points, and then save these setting. You can repeat above procedure to set more camera tours.

Network Screen

This screen is displayed configure Network setting such as IP address, DHCP, DDNS and PPPoE.

DHCP	ON OFF
IP address	192.168.0.20
Subnet mask	255 255 255.0
Default gateway	192.168.0.254
MAC address	00:30:t0:03:tft.fe
Primary DNS	0.0.0
Secondary DNS	0.0.0
HTTP Port 1	60
HTTP Port 2	0
DDNS	DDNS Setting
PPPoE	PPPoE Setting

Network screen

Data - Network Screen

Network Settings		
DHCP	Enable or disable DHCP client in ICA-500	
IP address, Subnet mask, Default	This parameter allows users to setup the IP address assigned by ISP. Your ISP should provide all the information requied for Internet access.	
gateway, Primary DNS, Secondary DNS	Note: User need to reboot the Network Camera to make this setting to take effect.	
HTTP Port 1, HTTP Port 2	Users could assign the port number of http protocol, and the WAN users should follow the port number to login.	

DDNS Setting

The DDNS is designed to solve this problem, by allowing users to connect to your LAN using a domain name, rather than an IP address.

	DDNS Setting		
	Enable DDNS	ON OFF	
	Username		
	Password		
	Domain Name		
	HTTP Proxy		
	Proxy Username		
	Proxy Password		
SAVE CANCEL BACK			

DDNS screen

Network Settings		
Enable DDNS	Enable or disable DDNS function.	
Username, Password	Enter the Username/Password for your DDNS account.	
Domain Name	Enter the host name, which DDNS service provider assigned.	
HTTP Proxy, Proxy Username, Proxy Password	Enter the parameter, which DDNS service provider assigned.	

PPPoE Setting

If the ISP demands PPPoE connection for Internet access, please select PPPoE as connection type, and insert the username/password by your ISP to connect you to the Internet.

PPPoE Setting		
Dial On Power Up		
User		
Password		
Send mail after dialed.		
Mail server		
Username		
Password	Check Password	
Sender email		
Receiver email		
Subject	IP Camera PPP Dialed!	
SAVE DIAL	CANCEL BACK	

PPPoE screen

Hint Please consult your ISP personnel to obtain proper PPPoE/IP address related information, and input carefully. If Internet connection cannot be established, please check the physical connection or contact the ISP service staff for support information.

User Screen

This User setting can set up to 10 different usernames and passwords. Every one set of username and password can be acted as an Administrator or just a general user.



User Screen

IP Filter Screen

The IP filter can set 10 different user's IP address, which are allowing enter or disregarding by the Network Camera. Please configure "User" before "IP Filter". Each "User" username and password matches with one "IP Filter" user.



IP Filter Screen

Event Screen

This is start two different sensors and motion detection for security purpose.

If any motion detected or sensor has been activated, the Network Camera can issue a message or send a mail out to the person whose mail is assigned within SMTP.



Event Screen

Basic Setting

Parameters in the Basic configuration menu provide machine adjustment; the available configurations are listed below:

Icon	Menu Link	Definition
	FTP Client	Setup IVS-100 as a FTP client and configure Server site in order to upload images to server
F	FTP Server	Setup IVS-100 as a FTP server and allows remote sites to check memory space availability (this feature is reserved for future product development)
X	SMTP	Setup Mail transferring service configuration
12 A	Alarm 1	Setup Alarm Output 1 action via manual or event
P.4	Alarm 2	Setup Alarm Output 2 action via manual or event
₹¶	Image Memory	Setup captured images storing naming configuration and provide any warning such as "Disk Full" (this feature is reserved for future product development)
Ť	Alarm Buffer	Setup image saving actions in case of alarms activated (this feature is reserved for future product development)
	Schedule	Setup scheduled recording activities (this feature is reserved for future product development)

*	Motion Detection	Setup motion detection area and sensor sensitivity
\bigcirc	Time Setting	Setup the Network Camera time configuration
	Рорир	Setup event message while motion or sensors has been activated
e	Firmware Upgrade	Product firmware upgrade
0	Factory Default	Pre-default the Network Camera factory default setting

FTP Client Screen

	FTP Client Setting	
FTP server name	192.168.0.124	
User name	xcot	
Password	*****	
Remote path	home	
lmage file name		
Suffix	🔍 None 🛛 💿 Date / Time 🔍 Sequence numbe	er
Sequence No. clear	🔍 Yes 🔍 No	
Mode	Event OPeriodical sending	FF
	SAVE CANCEL	

FTP Client Screen

Network Settings	
FTP server name	IP address or domain name of the destination FTP server
Username, Password	Please input the Username/Password for the FTP server
Remote path	Please input the path to the destination.

Image file name	Please input the basic file name you want to assign to the images when sending to the FTP server.
Suffix	Select the suffix to add to the file name.
Sequence No. clear	Enable or disable clear sequence number
Mode	Event / Periodical sending / Off
	Please select send a captured image mode.

SMTP Screen

This screen is displayed when the SMTP menu option is clicked.

SMTP (Simple Mail Transfer Protocol) is a protocol for sending e-mail messages between servers. The mail server address must be filled in this field.

	SMTP Setting	
SMTP server name		
Username		
Password	Check Password	
Sender's Mail Box		
Receiver's Mail Box		
Subject	IP Camera Warning!	
Mode	Event OPeriodical sending	© OFF
	SAVE CANCEL	

SMTP Screen

Network Settings		
SMTP server name	Enter the address of SMTP server used to send the mail. Please ensure the server is using SMTP protocol and able to relay mails for you. Some SMTP server may require authentication. Please enable the "Check Password", and enter the Account Password fields below for authentication.	
Username, Password	Enter the Username/Password for your SMTP account.	
Sender's Mail Box	Enter the sender e-mail address in the field. This field must be entered with a valid e-mail format.	
Receiver's Mail Box	Enter the receiver e-mail address in the field.	
Subject	Enter the subject of outgoing mail.	
Mode	Event / Periodical sending / Off	
	Please select send a captured image mode.	

Alarm 1 & Alarm 2 Screen

This screen is displayed when the *Alarm 1/Alarm 2* menu option is clicked. You can select Manual or Event for the Alarm mode.

	Alarm out 1	
Mode	🗿 Manual 💭 Event	
	SAVE CANCEL	
	Alarm1 Screen	
	Alarm out 2	
Mode	오 Manual 💿 Event	
	SAVE CANCEL	
	Alarm2 Screen	

Motion Detection Screen

This screen is displayed when the Motion Detection menu option is clicked. You can Enable/Disable function and adjust the sensitivity level

Enable Motion Defloction In VEE INO Semistanty Ingle: Arma Let: ITO: ITO: ITO: ITO: ITO: ITO: ITO: ITO	Semuladay marine . Area Let: 2012 Top 2003 Fight 1010 Bottom 2000		Motion Detection
Arma Let 2013 Top 2003 Right 7070 Botom 2000	Area Let 2012 Top 2023 Right 2010 Bottom 2000	Enable Motion De	AACTOR OYES ONO
		Sensibility	ingen 1 -
		Arma	Let 2012 Top 2003 Right 2670 Botom 2000
	ENE CANCEL		

Motion Detection Screen

Network Settings	3
Enable Motion Detection	Enable or disable Motion Detection function in ICA-500
Sensitivity	Select the desired option to suit your environment. If covering a large area, you usually need higher sensitivity, since a moving object will take only a small portion of the image.
Area	Use the adjust the determine which areas of the image are examined for motion

Time Setting Screen

This screen is displayed when the Time Setting menu option is clicked.





Network Setti	ngs
IP Cam Time	Provides settings of adjusting the camera's time
PC Time	This is default time value for PC.
Set Time	Three options of Synchronize with PC's time / User Input / NTP are available for your selection to link with the Time Server. The default setting is Synchronize the time with PC's time
Date (yy/mm/dd)	To set the Date Time manually select "User Input" and system administrator must enter the Date and Time in the respective
Time (hh:mm:ss)	field manually.
Time Zone	System administrator must select the time zone for the region. Please refer to the appendix for the time zone selection table.
Hint	Please find below NTP server web address for your reference to set the timeserver.
	http://www.eecis.udel.edu/~mills/ntp/clock1.htm
	http://www.eecis.udel.edu/~mills/ntp/clock2.htm

Popup Screen

This screen is displayed setting event message while motion or sensors has been activated

When any one of alarms enabled, and one of them detected, then a message window will be displayed on the screen.

	Pop-up Setti	ng
Pop-up text		
Alarm pop-up text		
Display mode	Administrator	All users
Sensor 1	ON OFF	
	ON OFF	
Sensor 2		

Pop up Screen

Network Settings	8
Pop-up text	Input the warming text.
Display mode	Select display mode for your
Sensor 1, Sensor 2, Motion detection	Enable or disable the display of a text string in the video image. Type the text string that you want to display in the adjacent field.

Firmware upgrade Screen

This screen is displayed when you click the *Firmware* Upgrade menu on the Status screen.



Firmware Upgrade Screen

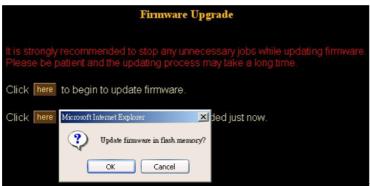
This screen allows you upgrade the Firmware (software) in your ICA-500. Before using this screen, your must download the upgrade file to your PC.

Then follow this procedure:

- 1. Click the Browse button, and locate the upgrade file.
- Select this file, and click OK. The filename will then appear in the Upgrade File field.
- 3. Click the Start Upgrade button to transfer the file to the ICA-500 and start the upgrade procedure.



4. Click the "here" button to begin to upgrade firmware.



5. Click the "OK" button to continue.

Firmware Upgrade
It is strongly recommended to stop any unnecessary jobs while updating firmware. Please be patient and the updating process may take a long time.
Click here to begin to update firmware.
Click here to ignore and delete the file uploaded just now.
Writing Progress: 78%

6. The upgrade progress status information will be displayed on the screen. Once the upgrading process completed, the Network Camera will reboot the system automatically.

(i) Hint

Do not interrupt the upgrading procedure during proceeding; or the inner component might be permanently damaged.

Factory Default Screen

This screen is displayed when you click the Factory Default menu on the Status screen.

Please Click "OK" button to load default settings to camera.

2)	All configuration will be set to factory default, and system will reboot immediate
Y	Continue?

Trigger & Capture

Trigger:

This is sending an image or output a trigger to control the alarm output, using Trigger section on the main page.



Network Settings

FTP	Upload a captured image to server
Mail	Mail captured image to specific mail address
Alarm 1	Enable Alarm output 1
Alarm 2	Enable Alarm output 2
Clear Alarm	Clear both alarm output status

Capture:

This screen is displayed when you click the Capture menu and the function can capture current image and save it to storage media. The image is saved in the JPEG format.

Save Picture					? ×
Save in:	My Pictures		•	= 🗈 💣 🎟•	
History Desktop My Documents My Computer	野 Caming02520 野 Sample.jpg	1.jpg			
	File <u>n</u> ame:	CamImg030139		-	<u>S</u> ave
My Network P	Save as type:	JPEG (*.jpg)		•	Cancel

ActiveX Control

This feature only supports on the ActiveX control within Microsoft® Internet Explorer.



View

This screen is displayed when you click the "View" menu on the ActiveX control.



View Settings	
Resizable	Make the image is resizable, but "Actual size disable", the "Splits" is supported on this mode.
Actual size	Make the image show as the actual size, the "Splits" function does not work on this mode.
Status Bar	A status bar display on the button of the image.

Split

This screen is displayed when you click the "Split" menu on the ActiveX control.

The Network Camera provides four setting for Window split, it can display different time frame images of the selected Network Camera. The time string with green characters is the current displayed image.

Available Split: $\cdot 1 \times 1$ (Default) $\cdot 2 \times 2 \cdot 3 \times 3 \cdot 4 \times 4$



Rotate & Quality & Resolution

Rotate: An image can be rotated in predefined 180-degree increments. Quality: Available quality : • High (Default) • Low. Resolution: Available resolution: • 176x144 • 320x240 • 352x288 • 640x480

Image Recording

This screen is displayed when you click the "Image Recording" menu on the ActiveX control.

Select	-	_		
Save as.	IPEG	I 9	ave as AVI	
S No Limit				
C Number	100	Frames	Save interval	1
C Size	1000	KBytes	001010010	
C Time	10	Seconds		
Save Path	C:\Docu	ments and Set	tings\Administr	SaveAs
Pre Name	webcam			
AVI				
No Limit		_	Frame Rate	
$\mathbf{C} \; Number$	500	Frames	💌 Auto	6
C Size	100	KBytes	Save interval	1
C Time	10	Seconds	o or o internal	P
Maximum Nur	nber of Fram	e in Each File	500	
Save Path	C:\Docu	ments and Set	tingsVidministr	SaveAs
Pre Name	webcam			

Recoding Screen

Save as JPEG:

Select this option and click "Save as JPEG" for detailed configurations. The predefined schedule can be set by JPEG.



During the JPGEG file recording, a red icon displays on lower right position of the image to indicate the AVI saving process. If want stop the recording, please press the "Stop Image Recording" to stop the save as JPEG process.

Save as AVI:

Select this option and click "Save as AVI" for detailed configurations. The pre-defined schedule can be set by AVI.



During the AVI file recording, a red icon displays on lower right position of the image to indicate the AVI saving process. If want stop the recording, please press the "Stop Image Recording" to stop the save as AVI process.

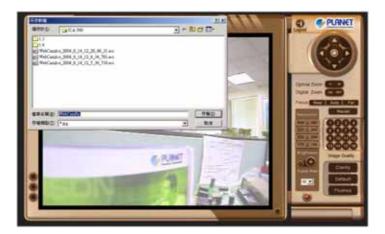
Recording File Path:

Save Current Picture As

This screen is displayed when you click the "Save Current Picture As" menu on the ActiveX control.

How to configure Motion Detection

- Please select the "Save Current Picture As " to save the current display image into the local PC.
- Please input the saved "file name", and click "Save" button.
- Please select the file to display the saved image by using any one of graph editing tools.



Chapter 5

Client UTILITY

INSTALLATION

The CamView utility for ICA-500 is a powerful utility for video recording, viewing, and camera administrations.

Please insert the user's manual CD and start the CamView installation from the default page or manually browse the **Utility** folder in the CD to install the software:

5.1. CamView Installation

• Run the "**setup.exe**" to start installation. A welcome message is shown as the following figure, and then hit the **Next** button to continue.



Read the license agreement first, please. If you accept the agreement, select I accept the agreement, and then hit the Next button to continue.

• Decide which directory to install the software. By default, just hit the **Next** button to continue

j § Setup - Cam∀iew	
Select Destination Location Where should CamView be installed?	
Setup will install CamView into the following folder. To continue, click Next. If you would like to select a different folde	r, click Browse.
C:\Program Files\PLANET\ICA500	Browse.
At least 5.4 MB of free disk space is required.	
(<u>B</u> ack	lext> Cancel

• Decide the program group name. By default, just hit the **Next** button to continue.

j∯ Setup - Cam¥iew	
Select Start Menu Folder Where should Setup place the program's	shortcuts?
Setup will create the program's s	shortcuts in the following Start Menu folder.
PLANET	Browse
	< <u>Back</u> Next> Cancel

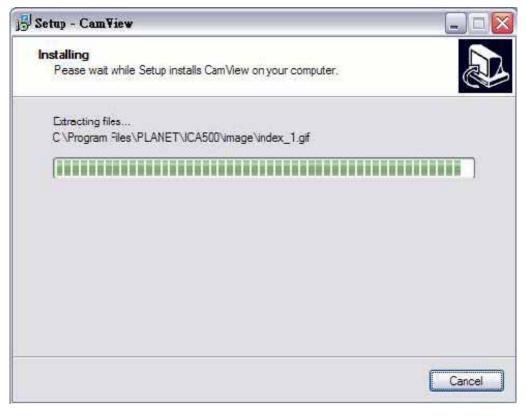
• Decide whether to create a desktop icon of the program. By default, just hit the **Next** button to continue.

j∯ Setup - Cam¥iew	
Select Additional Tasks Which additional tasks should be performed?	
Select the additional tasks you would like Setup to perform while insta then click Nexc.	alling CamView,
Additional icons:	
Create a desktop icon	
< <u>B</u> ack <u>N</u> ex	xt > Cancel

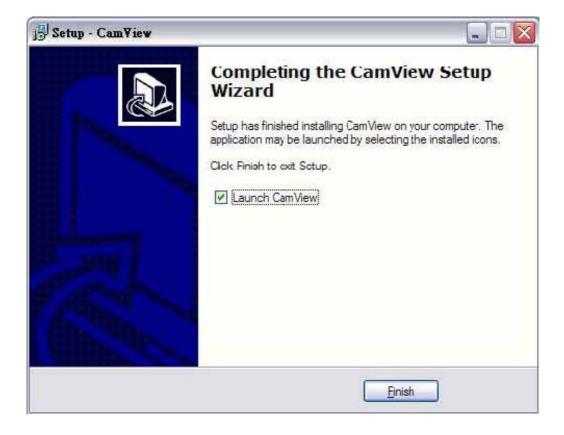
• Ready to install. By default, just hit the **Install** button to start installation.

J∯ Setup - Cam¥iew	
Ready to Install Setup is now ready to begn installing CamView on your computer.	
Click Install to continue with the installation, or click Back if you want to revie change any settings.	ew or
Destination location: C:\Program Files\PLANET\ICA500 Start Menu folder: PLANET Additional tasks: Additional icons: Create a desktop icon	
3	<u>×</u>
< Back Install	Cancel

• Installing, wait for a moment.



• Installation complete. Press **Finish** to launch the program. Otherwise, uncheck the check box to run the program later.



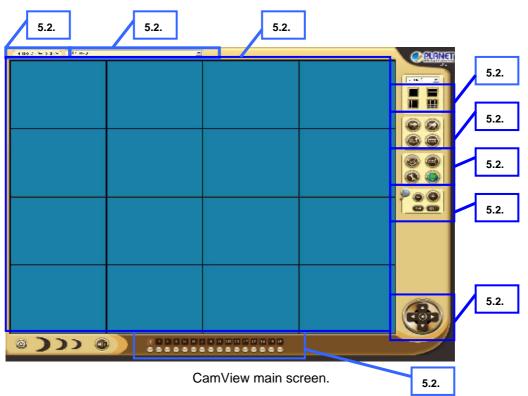
HOW TO USE

After successfully installing the utility, this icon, Double click on it to launch the program.



, will be added to the desktop.

5.2. CamView User Interface



5.2.1. Date and Time

The current date and time of the computer are displayed here.

5.2.2. Viewer Screen

CamView is able to monitor up to 16 Internet cameras. Users may choose different layout to monitor different sites. The available camera display modes are shown below:

- Single: Only one viewer displays video.
- 2 x 2: The screen is divided into 4 sub-screens.
- 3 x 3: The screen is divided into 9 sub-screens.
- 4 x 4: The screen is divided into 16 sub-screens.

5.2.3. Camera and Layout Selection

Here is a combo box to select cameras. When you select a camera here, you can press buttons below the combo box to start the recording, snapshot tasks and so on.

Moreover, there are four buttons for you to specify the layout of the screen.

5.2.4. Recording and Playback

Here are buttons to record, snapshot and playback.

5.2.5. Camera and Application Settings

Here are buttons to set the camera or the application program.

5.2.6. Camera Zoom

Here are two buttons to zoom in or zoom out on the image.

Note: camera zoom feature is reserved for future PTZ model.

5.2.7. Camera Pan/Tilt Control

Here are five buttons to move the camera to the up, down, left, right and home, respectively

5.2.8. Camera Selector and Recording

Here are buttons to select cameras, and toggle buttons for recording.

5.2.9. Alert Message

Here is a combo box to show alert messages. Ex: free space is almost exhausted.

5.3. Application Configuration

Press the button shown below to configure the application program. After the button is pressed, a dialog form will show up. Users then configure the program by the form as the following sections.



5.3.1. Initial Setup Settings

Figure 5.3.1 shows settings for the global scope of the application including initialization and environment. After all settings are complete, press the OK button to save the configuration, and exit the form.

The following lists descriptions of each setting:

• Viewer Layout: Set the initial layout of cameras when starting CamView.

Initial Setup	Camera	Scheduling	Application	🗋 🗆 Cameia List
Viewer Layout	13			Camera 1 Camera 2 Camera 3 Camera 4 Camera 5 Camera 5 Camera 7 Camera 7 Camera 8 Camera 9 Camera 10 Camera 11 Camera 11 Camera 12 Camera 13 Camera 14 Camera 15 Camera 16

Figure 5.3.1. The Application Tab

5.3.2. Camera Settings

As shown in Figure 5.3.2, users can set parameters of each camera.

If the **Restore** button is pressed, the current setting modifications of the specified camera will be cleared and restore to the original.

If the **Apply** button is pressed, the current setting modifications will be applied to the specified camera. Note that these modifications are not saved to the persistent storage like HD on the computer.

If the **OK** button is pressed, all settings on all tabs will be saved, and exit the form.

The following lists descriptions of each setting:

- IP: IP of the camera.
- Port: Connection port of the camera. The default is 80.
- **Record Path**: A directory storing recorded video files. Double-click the input field or click the button to select the directory.
- Record Number of Frame: The maximum number of images in a video file.
- Snapshot Path: A directory storing snapshots. Double-click the input field or click the button to select the directory.
- **Recording at Start**: If the box is checked, the program will do recording for the specified camera automatically at the time it is started running.

Application Config	uration				
Initial Setup	Camera	Ľ	Scheduling	Application	Cameia List
IP		-			Camera 1 Camera 2
Port		80			Camera 3
		100			Camera 4 Camera 5
Record Path		C:\F	rogram Files\PLAN	VET \video_rec\	Camera 6 Camera 7
Record Number of	Frame	2000)		Camera 8 Camera 9
Snapshot Path		C:\F	rogram Files\PLAN	VET\snapshot\c 💌	Camera 10
F Recording at S	tart				Camera 11 Camera 12
					Camera 13 Camera 14
					Camera 15
					Camera 16
				Restore	
					OK Apply

Figure 5.3.2. The Camera Tab

5.3.3. Scheduling

As shown in Figure 5.3.3, users can schedule recording tasks.

When you press the **Add** button, the editing task will be added to the schedule item list.

When the **Modify** button is pressed, the specified task will be updated.

If the **Remove** button is pressed, the specified task will be removed from the list.

The **Apply** button is unused for this tab.

Press OK button will save all settings on all tabs, and exit the form.

The following lists descriptions of each setting:

- Hour: Set the hour of time in 24- hour manner. * stands for all hours.
- Minute: Set the minute of time. * stands for all minutes.
- Month: Set the month of date. * stands for all months.
- **Day**: Set the day. * stands for all days.
- Weekday: Set the weekday of a week. If no day is specified, all weekdays will fit.
- Duration: The duration of the task. Set the value in seconds. Zero means no limit.

For example, set a recording task which begins at 10:00 every Monday with duration 3600 seconds. It is:

Hour = 10, Minute = 0, Month = *, Day = *, Weekday = Mon, Duration = 3600

Application Configu	iration			
Initial Setup	Camera	Scheduling	Application] 🗆 Cameia List
Hour (0-23) Month (1-12) Weekday Sele	ct Cne	Minute (0-59) Day (1-31) Duration (Sec) 10 Add	Modify Remove	Camera 1 Camera 2 Camera 3 Camera 4 Camera 5 Camera 6 Camera 7 Camera 8 Camera 9 Camera 10 Camera 11 Camera 12 Camera 13 Camera 14 Camera 15 Camera 16

Figure 5.3.3. The Scheduling Tab

5.3.4. Application Settings

Figure 5.3.4 shows settings for the global scope of the application including initialization and environment. After all settings are complete, press the **OK** button to save the configuration, and exit the form.

The **Apply** button is unused for this tab.

The following lists descriptions of each setting:

- Alert Free Percentage (%): Set the percentage of free space you want to designate for alerts.
- Alert Free Size (MB): When free space is less than the specfied size, it will alert warning messages automatically.
- **Message Numbers**: Set the number of lines, which you want to show the alert message in.
- **Export**: Select the item to save the configuration (Application Configuration or eMap)
- **Import**: Select the item to load the configuration (Application Configuration or eMap)
- **Cycle Recording**: IF free space is not enough, it will delete the oldest recording file.

Initial Setup	Camera	Scheduling	Application	Camera List		
Alert Free Persentag]]e %	15		Camera 1 Camera 2		
- Alert Free Space (M		10		Camera 3		
Message Numbers		30		Camera 4 Camera 5		
_				Camera S		
Export Configure		Select One	<u> </u>	Camera 7		
Import Configure		Select One	•	Camera 3 Camera 3		
		0		Camera 10		
				Camera 11		
				Camera 12 Camera 13		
				Camera 14		
				Comord 14		
				Camera 15		
				Camera 15		
				Camera 15		
Cycle Recording				Camera 15		
🖵 Cycle Recording	3			Camera 15		
Cycle Recording	9			Camera 15		
Cycle Recording	9			Camera 15		
🖵 Cycle Recording	9			Camera 15		
Cycle Recording	,			Camera 15		

Figure 5.3.4. The Application Tab

5.4. Camera Configuration

Users can hit the button shown in Figure 5.4 to configure the specified camera. The configuration guide is not included in the document. Please read the documentation of the camera.



5.5. Recording

There are three methods to start recording. The first is to press the toggle button as shown in Figure 5.5-1 to start recording for the camera specified by the selector combo box on the right-top side of the panel. To stop recording, hit the button again.

The second method is to use buttons described in section 5.2.8. You may select a camera by hitting the button with camera number as shown in Figure 5.5-2 and then press the corresponding button at the second line to record. The button is shown as in Figure 5.5-3. After hitting the button, it will light up as shown in Figure 5.5-4 to indicate the specified camera is recording. To stop recording is similar to the previous steps, press the lighten-up button can stop the video recording.

The last method to record video is done by scheduling. Please setup the schedule recording tasks as described in section 5.3.3. When the time is up, the program will start to record.



5.6. Playback

When you press the **Playback** button on the panel as shown in Figure 5.6, a form will appear to show the list of video records and snapshots.



5.6.1. Video List

The video list tab lists video records, and displays the information about the specified record. When you hit the **Play** button, the Windows Media Player will start to play the video. The Video list is shown in the following figure.

Record List			
Video List	Snapshot List	Video Search	Camera 1 👻
Location Alerts Start Time Duration			Jan Stranger
r-!0_End2004_9_6_10_! r-!0_End2004_9_6_11_ r-!0_End2004_9_6_11_ r-!0_End2004_9_6_11_! r-!0_End2004_9_6_12_ r-!0_End2004_9_6_13_!	13_58_859.avi 32_48_656.avi 5_34_453. <i>a</i> vi 15_15_484.avi	Play Delete	

Figure 5.6.1. The Video List Tab

5.6.2. Snapshot List

The snapshot list tab lists snapshots, and displays the information about the specified snapshot. When you hit the **Show** button, Internet Explorer will be invoked to display the snapshot.

Video List] Snapshot List [Video Search	Camera 1
ocation			_
vlerts At Time			
s- <u>10_104_8_26_15_2</u> 1	20 15 inc	Show	
s!0_104_8_26_15_21	_26_156.jpg	Delete	
s!0_104_8_26_15_21 s!0_104_8_26_15_21		Delete	
s-]!0_104_8_26_15_21 s!0_104_8_26_15_21			
sI0_104_8_26_15_21	_27_796.jpg		
s!0_104_8_26_15_21 s!0_104_8_26_15_21	_28_203.jpg		
s!0_104_8_26_15_21 s!0_104_8_26_15_21	_28_312.jpg _28_93.jpg		

Figure 5.6.2. The Snapshot List Tab

5.6.3. Video Search

The video search tab lists video file information about the specified search.

When you enter the search qualification, then hit the **Search** button, you will get the matched video files. Select an item, hit the **Play** button, Windows Media Player will be opened to play the video. It is shown in the following figure.

Vi	deo List	Snapsh	ot List		Video	Search
Camera 📑	Use	* for all				
itart Time	2004/9/1	1 💌 Но	ur 0	•	Mir	
ind Time	2004/9/24	4 🗸 Ho		*	Mir	
Camera No	File Name	Start Time		End Time		
camera2	C:\Program Files\I		01:49:21	ALC: NO CONTRACTOR	PM 01:49	1000
camera2	C:\Program Files\I	a substitute of exploring the product of the strength of the second	01:49:52	2004/9/6	PM 01:50	5
camera2	C:\Program Files\I	2004/9/6 PM 0	01:50:24	2004/9/6	PM 01:50	
camera2	C:\Program Files\I	2004/9/6 PM (01:50:55	2004/9/6	PM 01:51	Ē.
	C:\Program Files\	2004/9/6 PM	01:51:26	2004/9/6	PM 01:51	Search
oamera2	C:\Program Files\	2004/9/6 PM	01:51:59	2004/9/6	PM 01:52	
camera2 camera2	C. 4 rogram i nes u			00041010	DB8 00.04	Play
supplicing to share a factor to the second	C:\Program Files\	2004/9/6 PM	03:04:15	2004/9/6	PM 03:04	· · · · · · ·

Figure 5.6.3. The Video Search Tab

5.7. Image Rotation

After the button is pressed, the display image rotates 180 degree. It is used for the camera being installed upside-down direction.

Note video/images in recorded video will not be rotated.



5.8. eMap

When you press the **eMap** button on the panel as shown in Figure 5.8, a form will appear to show the eMap function.



Figure 5.8.

5.8.1. eMap Setting

Select the File from the menu bar and follow these steps to set up eMap :

1.New Layout: First, create a new layout.

2.Load Image: Choose an image file to load.

3.Save: Save all settings.

The following describes other menu options:

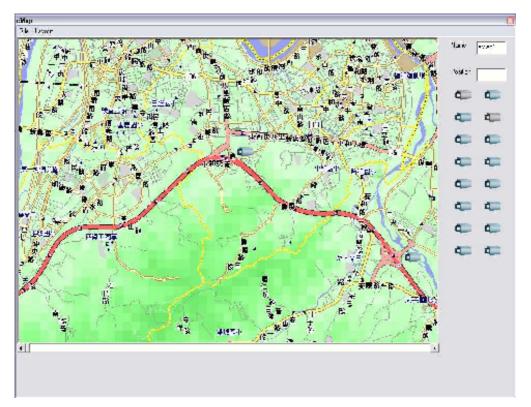
- **Reset**: Remove all camera icons in this layout.
- Delete: Delete the editing layout.
- Close: Exit eMap. Before you select it, we recommend you to save the current settings.

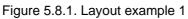
As shown in Figure 5.8.1 and Figure 5.8.2, with the map image in layout, you can drag the camera icons into proper positions to deploy your cameras.

The following describes layout entries:

- **Name**: Define a name for this layout.
- **Position**: Describe the layout position.

In the menu bar, select Layout to change editing layouts.





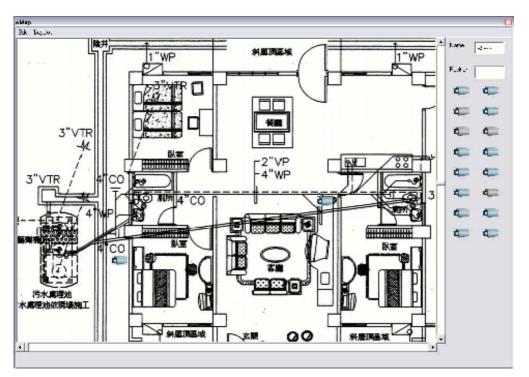


Figure 5.8.2. Layout example 2

• When your mouse moves over the camera icon, you can click the right button to display a menu which has options to set the configuration, show the record list, record, show video and remove the camera icon.



Figure 5.8.3.

Appendix A: Alarm I/O Connector

The terminal block is used in applications for e.g. motion detection, event triggering, time lapse recording, alarm notification via email, image storage to FTP locations, etc.



ICA-500 provides a general I/O terminal block with two digital inputs and two outputs for device control. Pin 1 and 2 can be connected to an external sensor 1. Pin 2 and 3 can be connected to an external sensor 2. Both of the inputs, the voltage will be monitored from the initial state 'LOW'. The relay switch of pin 4, 5 and 6 can be used to turn on or off the external device. The relay switch of pin 7 and pin 8 can be used to turn on or off the external device. External Inputs/Outputs are working independently.

Pin	Function
1	Alarm Input #1 (A). Max 24VDC, 12mA.
2	Alarm Input #1/2 (K).
3	Alarm Input #2 (A). Max 24VDC, 12mA
4	Alarm Output #1 (NC). Max 24VDC, 1A
5	Alarm Output #1 (COM)
6	Alarm Output #1 (NO)
7	Alarm Output #2 (COM). Max 24VDC, 1A
8	Alarm Output #2 (NO)

Appendix B: Troubleshooting

Q: The video and audio codec is adopted in the Network Camera?

A: The Network Camera utilizes JPEG compression to providing high quality images. JPEG is a standard for image compression and can be applied to various web browsers without the need to install extra software. The audio codec is ADPCM compression.

Q: The maximum number of users access Network Camera simultaneously.

A: The maximum number of users is depending on the total bandwidth accessed to Network Camera from clients. The data throughout of Network Camera is around 5~6Mbps. Therefore, the maximum number of connected clients is varying by settings of resolution and frame rate. Obviously, the performance of the each connected client will slow down when many users are logged on.

Q: The Network Camera can be used outdoors or not.

A: The Network Camera is not weatherproof. It needs to be equipped with a weatherproof case for outdoors using. However, equipped with a weatherproof case will disable the audio function of Network Camera.

Q: The network cabling is required for the Network Camera.

A: The Network Camera uses Category 5 UTP cable allowing 10 and/or 100 Base-T networking.

Q: Why doe the Status LED not light up

A: • Check and confirm that the standard AC adaptor, included in packaged, is used. Secure the power connector and re powers it on again.

• If the problem is not solved, the Network Camera might be faulty. Contact your dealer for further help.

Q: The Network Camera will be installed and work if a firewall exists on the network.

A: If a firewall exists on the network, port 80 is open for ordinary data communication. The Network Camera uses port 80(default) only. This port (or the port you specify from the Configuration screen if you change the default port) needs to be opened on the firewall.

Q: The username and password for the first time or after factory default reset

A: Username = admin and leave password blank.

Note that it's all case sensitivity.

Q: Forgot the username and password

A: Follow the steps below.

•Restore the factory default setting by press pressing and holding down more than 8 seconds when power on Network Camera.

•Reconfigure the Network Camera.

Q: Forgot the IP address of the Network Camera.

A: Check IP address of Network Camera by using the IP Finder (ipeditv3) program.

Q: IP Finder program (ipeditv3) cannot find ICA-500

A:• Re power the ICA-500 if cannot find the unit within 1 minute.

• Do not connect ICA-500 over a router. IP Finder program cannot detect ICA-500.

• If IP address is not assigned to the PC which running IP Finder program, and then IP Finder program cannot find ICA-500. Make sure that IP address is

assigned to the PC properly.

• Antivirus software on the PC might interfere with the setup program. Disable the firewall of the antivirus software during setting up ICA-500.

Q: Internet Explorer does not seem to work well with the ICA-500

A: Make sure that your Internet Explorer is version 6.0 or later. If you are experiencing problems, try upgrading to the latest version of Microsoft's Internet Explorer from the Microsoft webpage at: http://www.microsoft.com/windows/ie.

Q: Internet Explorer does not seem to work well with the ICA-500

A: IP Finder program fails to save the network parameters. • Don't leave any space in the name field. Use underline, "_", or dash, "-" to replace the space, " ". • Network may have trouble. Confirm the parameters and connections of the ICA-500.

Q: Internet Explorer does not seem to work well with the ICA-500 Cannot access the login page and other web pages of ICA-500 from Internet Explorer

A: • Another device or computer is already using Maybe the IP Address of the ICA-500. To confirm this possible problem, disconnect the ICA-500 from the network first, and then run the PING utility to check it out. • Maybe due to the network cable. Try correcting your network cable and configuration. Test the network interface by connecting a local computer to the ICA-500 via a crossover cable. • Make sure the Internet connection and setting is ok. Make sure enter the IP address of Internet Explorer is correct. If ICA-500 has a dynamic address, it may have changed since you last checked it. Network congestion may prevent the web page appearing quickly. Wait for a while. The IP address and Subnet Mask of the PC and ICA-500 must be in the same class of the private IP address on the LAN. • Make sure the http port used by the ICA-500, default=80, is forward to the ICA-500's private IP address. • The port number assigned in your ICA-500 might not be available via Internet. Check your ISP for available port. • The proxy server may prevent you from connecting directly to ICA-500, set up not to use the proxy server. • Confirm that Default Gateway address is correct. The router needs Port Forwarding feature. Refer to your router's manual for details. Packet Filtering of the router may prohibit access from an external network. Refer to your router's manual for details. Access ICA-500 from the Internet with the global IP address of the router and port number of ICA-500. Some routers reject the global IP address to access ICA-500 on the same LAN. Access with the private IP address and correct port number of ICA-500. When you use DDNS, you need to set Default Gateway and DNS server address.

• If it's not working after above procedure, reset ICA-500 to default setting and installed it again.

• If the problem is not solved, the ICA-500 might be faulty. Contact your dealer for further help.

Q: Image or video does not appear in the main page

A: The first time the PC connects to ICA-500, a pop-up Security Warning window will appear to download ActiveX Controls. When using Windows NT, Windows 2000 or Windows XP, log on with an appropriate account that is authorized to install applications.
 Network congestion may prevent the Image screen from appearing quickly. You may choose lower resolution to reduce the required bandwidth.

Q: Check the ICA-500's ActiveX is installed on your computer			
A: Go to C:\Windows\Downloaded Program Files and check to see if there is an			
entry for the file "WebWatch Class". The status column should show			
"Installed". If the file is not listed, make sure your Security Settings in Internet			
Explorer are configured properly and then try reloading the ICA-500's home			
page. Most likely, the ICA-500 ActiveX control did not download and install			
correctly. Check your Internet Explorer security settings and then close and			
restart Internet Explorer. Try to browse and log in again.			
Q: Check the ICA-500's ActiveX is installed on your computer			
A: Internet Explorer displays the following message: "Your current security			
settings prohibit downloading ActiveX controls". Setup the IE security			
settings or configure the individual settings to allow downloading and scripting of			
unsigned ActiveX controls.			
Q: The ICA-500 works in local network, but not accessible from remote			
network			
A: This might be caused from the firewall protection. Check the Internet firewall			
with your system or network administrator. The firewall may need to have			
some settings changed in order for the ICA-500 to be accessible outside your			
LAN.• Make sure that the ICA-500 isn't conflicting with any other web server			
running on your LAN. • Check the configuration of the router settings allow the			
ICA-500 to be accessed outside your local LAN.			
Q: There are unreadable characters displayed in machine configuration			
pages			
A: Use the operating system of the selected language. Set the Encoding or the			
Character Set of the selected language on the Internet Explorer.			
Q: Frame rate is slower than the setting			
A: • The traffic of the network and the object of the image affect the frame rate.			
The network congestion causes frame rate slower than the setting. • When more			
than one client were viewing, the frame rate becomes slower. • Ethernet			
switching hub can smooth the frame rate especially in viewing on the Multi-			
Camera screen.			
Q: Blank screen or very slow video when audio is enabled			
A: • Your connection to the ICA-500 does not have enough bandwidth to support			
a higher frame rate for the streamed image size. Try reducing the video			
streaming size to 176x144 or 320x240 and/or disabling audio. • Audio will			
consume 32 to 64 kbps. Disable audio to improve video. Your Internet			
connection may not have enough bandwidth to support streaming audio from			
the ICA-500.			
Q: Image Transfer on e-mail or FTP does not work			
A: • Default Gateway and DNS server address should be set up correctly. • If			
FTP does not work properly, ask your ISP or network administrator about the			
transferring mode of FTP server.			
Q: The focus on the camera is fuzzy.			
A: • The lens is dirty or dust is attached. Fingerprints, dust, stain, etc. on the lens			
can degrade the performance camera. Clean the lens with lens cleaner.			
Manual focusing may be setup on the external camera to prevent this.			
 Blurred images may have been registered when registering or modifying the 			
preset button or home position button. Adjust the focus in manual focusing			
again			
• The image may be out of focus, if the object is too near, or depending on the			
zoom position. Move the object off ICA-500, or adjust the zoom position.			
 Some objects are difficult to focus on by the camera. When the objects are still 			
out of focus, adjust the focus using manual focusing, or change the objects			
using Pan/Tilt operation.			

Q: The color of the image is poor or strange

A:

• To insure the images you are viewing are the best they can be, set the Display property setting (color quality) to 16bit at least and 24 bit or higher if possible within your computer.

•The configuration on the ICA-500 image display is incorrect. You need to adjust the image related parameters such as brightness, contrast, hue and saturation properly.

Q: Image flickers

A: • Wrong power line frequency makes images flicker. Make sure the NTSC or PAL format of your ICA-500

.• If the object is dark, the image will flicker. Make the condition around the ICA-500 brighter.

Q: Noisy images occurs

A: The video images might be noisy if the ICA-500 is located in a very low light environment. Make the condition around the ICA-500 brighter.

Q: How to Reboot the ICA-500

A: If you just want to reboot system without change anything. Go to Network page and click **SAVE** button directly, then system will reboot again.

Q: Can not play the recorded AVI file

A: Have installed Microsoft's® DirectX 9.0 or later and use the Windows Media Player 9 or later to play the AVI filed recorded by the ActiveX.

Appendix C: Bandwidth Calculation

The frame rate of video transmitted from the ICA-500 depends on connection bandwidth between client and server and quality setting of server. Here is a guideline to help you roughly estimate the bandwidth requirements form your ICA-500.

Image bandwidth is approximately equal to the average frame rate in frames per second multiplied by the average frame data size in kilobits. Frame data size, or the number of bits comprising a single video frame varies a great deal from depending on scene complexity, lighting conditions, camera noise, etc. The table shown below is reference figures. Actual results generated by the ICA-500 may be varying.

Image Resolution	Average range of Data Sizes
176 x 144 (QCIF)	20 – 40k bit
320 x 240 (QVGA)	56– 92k bit
352 x 288 (CIF)	64 – 112k bit
640 x 480 (VGA)	160 – 320k bit

For example, streaming 2 fps of 320 x 240 video requires 112 to 184 kbps (kilobits per second). Therefore, with a 128K upload connection; you will typically see 3 to 6 frames per second with 176 x 144 resolution and 1 to 2 frames per second with 320 x 240 resolution without audio stream.

Not

Audio streaming also takes bandwidth around 32 kbps to 64kbps. Most ADSL/Cable modem upload speeds may not even reach up to 128 kbps. Thus, you may not be able to receive any video while streaming audio on a 128 kbps or lower connection. Even though the upload speed is more than 128kbps, for optimal video performance, disabling audio streaming will get better video performance.

Appendix D: Specifications

Model	ICA-500
Hardware	
Sensor	1/3" CCD sensor
Iris control	Video-drive iris control
Gain control	High/Low switchable
White balance	Indoor, auto mode (color temperature: 2500K~9000K)
Focus	Fixed, lens length=3.6mm, manually fine tune
Minimum Illumination	0.2LUX@F2.0
PAN (Horizontal Rotation)	0°~325°
Tilt (Vertical Rotation)	10°~90°
Network	1 x 10/100Mbps RJ-45 port
Generic I/O port	2 x I/O ports, one for input and one for output
Video interface	BNC connector for monitoring
Audio interface	Built-in microphone for audio recording
Image (Video setting)	
Image compression	JPEG, 3 levels
Video Resolution and Frame Rate	640 x 480 (20fps), 352 x 288 (30fps), 320 x 240 (30fps), 176 x 144 (30fps)
Image Rotate	Rotate 0, Rotate 180, Flip Horizontal, Flip Vertical (note: the recorded video will not be rotated)
Environment	· · ·
Operating Temperature	5~45 degree C, 10~80% humidity
Power Requirement	12V DC
EMC/EMI	CE, FCC
Network and Configuration	1
Connection type	Static IP, PPPoE, DHCP
Management	Web, utility

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