IPCam SECURE300W

User's Manual

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Introduction

Congratulations on your purchase of our IPCam SECURE300W!

Unlike a PC Camera, the IPCam SECURE300W is a standalone system with a built-in CPU and Web server that transmits real-time and high quality video images for monitoring. The IPCam SECURE300W can be accessed remotely and controlled from any PC/Notebook over the Intranet or Internet via a web browser. The simple installation procedures and web-based interface allow you to integrate it into your network easily. With comprehensive applications supported, the IPCam SECURE300W is your best solution for remote monitor, high quality, and high performance video images.

Features and Benefits

■ Simple to Use

The IPCam SECURE300W is a standalone system with built-in CPU requiring no special hardware or software such as PC frame grabber cards. The IPCam SECURE300W supports both ActiveX mode (for Internet Explorer users) and Java mode (for Internet Explorer and Netscape Navigator users). Therefore, all that is required is a web browser software such as Internet Explorer 5.0 or above or Netscape 6.0 or above. Just plug and view the picture from the IPCam SECURE300W with a valid IP Address

■ Support IEEE 802.11g wireless LAN or Ethernet/Fast Ethernet

The IPCam SECURE300W provides IEEE802.11 wireless LAN or Ethernet/Fast Ethernet connectivity, making the IPCam SECURE300W easy to integrate into your existing network environment.

■ Support Variety of Platforms

The IPCam SECURE300W supports TCP/IP networking, SMTP email, HTTP and other Internet related protocols, and can be utilized in a mixed operating system environment such as Windows, Unix, and Mac. It can be integrated easily into other www/Intranet applications.

■ Web Configuration

Applying a standard web browser, the administrator can configure and manage IPCam SECURE300W directly from its own web page via the Intranet or Internet. That means you can access the IPCam SECURE300W at any time from anywhere in the world. Up to 64 users name and password are permitted with privilege setting controlled by the administrator.

■ Remote Utility

The powerful IPView SE application assigns the administrator with a pre-defined user ID and password, allowing the administrator to modify the IPCam SECURE300W settings from the remote site via Intranet or Internet. When new firmware is available, you can also

upgrade remotely over the network for added convenience. Users are also allowed to monitor the image, and take snapshots.

■ Broad Range of Applications

With today's high-speed Internet services. the IPCam. SECURE300W can provide the ideal solution for live video images over the Intranet and Internet for remote monitoring. The IPCam SECURE300W allows remote access from a web browser for live image viewing and allows an administrator to manage and control the IPCam SECURE300W anywhere and any time in the world. Apply the IPCam SECURE300W to monitor various objects and places such as homes, offices, banks, hospitals, child-care centers. amusement parks and other varieties of industrial and public The IPCam SECURE300W can also be used for monitoring. intruder detection; in addition, it can capture still images for archiving and many more applications.

Package Contents

- Genius IPCam SECURE300W
- Ouick Installation Guide
- CD-ROM with Software and Manual
- Camera Stand with screws and Mounting Bracket
- Cat. 5 Ethernet Cable
- Power Adapter
- IEEE 802.11g Antenna

System Requirements

Networking

- a. Local Area Network: 10Base-T Ethernet or 100Base-TX Fast Ethernet.
- b. Wireless Local Area Network: IEEE 802.11g Wireless Router or Access Point.

Accessing the IPCam SECURE300W

- a. For Web Browser Users
 - Operating System: Microsoft® Windows® 98SE / ME/ 2000/XP
 - CPU: Intel Pentium II, 266 MHz or above
 - Memory Size: 32MB (64MB recommended)
 - Resolution: 800x600 or above
 - Microsoft® Internet Explorer 5.0 or above (ActiveX & JAVA Mode Image View for Windows OS and JAVA Mode Image View for other OS); Netscape 6.0 or above (JAVA Mode Image View)
- b. For IPView SE Application Users
 - Operating System: Microsoft® Windows® 98SE / ME/ 2000/XP.

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- CPU: Intel Pentium III, 450 MHz or above
- Memory Size: 128 MB (256 MB recommended)
- Resolution: 800x600 or above

Hardware Overview

This section describes features of the IPCam SECURE300W.

■ Front Panel



1. Power LED

The Power LED is positioned on the right side of the IPCam SECURE300W's lens while facing the IPCam SECURE300W.

A steady **BLUE** light confirms that the IPCam SECURE300W is powered on.

KYE Systems Corp.

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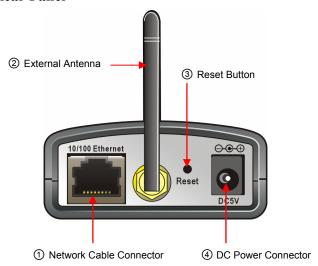
2. Link LED

The Link LED is positioned on the right side of the IPCam SECURE300W's lens while facing the IPCam SECURE300W. It is located to the right of the Power LED

A steady **ORANGE** light confirms that the camera has good connection to LAN connectivity.

Dependent on the data traffic the LED will begin to flash to indicate that the IPCam SECURE300W is receiving/sending data from/to the network.

■ Rear Panel



KYE Systems Corp.

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1. Network Cable Connector

The IPCam SECURE300W's rear 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 the N-Way protocol and "Auto-MDIX" function, allowing the IPCam SECURE300W to automatically detect or negotiate the transmission speed of the network.

2. External Antenna

The rotatable external antenna allows you to adjust its position to obtain the maximum signal.

3. Reset Button

Reset will be initiated when the reset button is pressed once, and Power LED begins to flash.

Factory Reset will be initiated when the reset button is pressed continuously for three seconds or when Power LED begins to light up. Release the reset button and the Power LED will begin to flash, indicating the IPCam SECURE300W is changing to factory reset. When factory reset is completed, the IPCam SECURE300W will be set to default on channel 11 and SSID is set as "NULL String" (This default setting will let the IPCam SECURE300W connect to ANY access point on the infrastructure network). The IP address will also return to the default setting as 192.168.0.20.

4. DC Power Connector

The DC power input connector is located on the IPCam SECURE300W's rear panel, and is labeled DC5V with a single jack

socket to supply power to the IPCam SECURE300W. Power will be generated when the power supply is connected to a wall outlet.

Note:

Using the power supply with different voltage rating will damage the IPCam SECURE300W.

■ Top/Bottom Panel

Top Panel





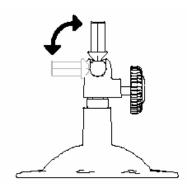
Screw Hole

Located on the top/bottom panel of the camera, the screw hole is used to connect the camera stand onto the camera by attaching the screw head on the camera stand into the screw hole of the camera.

Hardware Installation

■ Attach the Camera to the Stand

The IPCam SECURE300W comes with a camera stand (optional) with a swivel ball screw head that can be attached to the IPCam SECURE300W's bottom screw hole. Attach the camera stand to the IPCam SECURE300W and station it for your application. There are three holes located in the base of the camera stand allowing the IPCam SECURE300W to be mounted on the ceiling or any wall securely.



■ Attach the Antenna

Please attach the Antenna to the antenna connector located on the back of the IPCam SECURE300W.



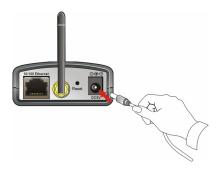
■ Connect the Cat 5 Ethernet Cable

If you would like use the IPCam SECURE300W in the wired networking environment, you can connect an Ethernet cable to the network cable connector located on the IPCam SECURE300W's rear panel, and then attach it to the network. The port also supports MDI/X, which allows the use of either straight through or crossover cables



■ Attach the Power Supply

Attach the external power supply to the DC power input connector located on IPCam SECURE300W's rear panel, and then connect it to your local power supply.



Note:

You can confirm power source is supplied from the LED indicators. The Power LED on the IPCam SECURE300W should be illuminated.

Security

To ensure the highest security and prevent unauthorized usage of the IPCam SECURE300W the Administrator has the exclusive privilege to access the System Administration for settings and control requirements to allow users the level of entry and authorize the privileges for all users. The IPCam SECURE300W supports multilevel password protection and access to the IPCam SECURE300W is strictly restricted to the user who has a "User Name" and "User Password" that is assigned by the Administrator.

The administrator can release a public user name and password so when remote users access the IPCam SECURE300W they will have the right to view the image transmitted by the IPCam SECURE300W.

Note:

Since the default settings are Null String, it is highly recommended to set the "Admin ID" and "Admin Password" for the first time when you use the IPCam SECURE300W. Once the ID and Password are defined, only the administrator has access to management the IPCam SECURE300W. This procedure should be done as soon as possible since the security features with the IPCam SECURE300W will not be enabled until the "Admin ID" and "Admin Password" is defined.

Connecting the Camera behind a Router

■ Step 1: Hardware Installation Follow the "Hardware Installation" section to setup the IPCam SECURE300W itself

Step 2: Look up the IP address you have with your computer while connecting to the Internet.
For configuring the IPCam SECURRE300W, you will to assign the IP Address which is correspondent to the networking settings.

The "ipconfig" command can be used to look up the IP address of connecting to the Internet.

Start a DOS window: Start→Program→Accessories→Command Prompt→Type →ipconfig→ Press "Enter"

You will see the networking settings.

- Step 3: Disconnect the Internet and Connect the Camera For configuring the IPCam SECURE300W, you will need to disconnect the Internet first and connect the IPCam SECURE300W directly to the computer through Cat. 5 Ethernet cable.
- Step 4: Change the IPCam SECURE300W settings
 The default IP Address of the IPCam SECURE300W is
 192.168.0.20. Before configuring the IPCam SECURE300W,
 you will need to change the networking settings of the
 computer. In that way, the computer can communicate with the
 IPCam SECURE300W.

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Therefore, you have to change the computer networking settings to correspond to the IPCam SECURE300W.

Start→Program→Control Panel→Network→Right click on "Network"→ Double click on "TCP/IP" →Type the IP Address of 192.168.0.X(you can use any value between 1 to 254, except 20)→Type the Subnet Mask: 255.255.255.0→ Click on "Save" and then exit.

■ Step 5: Configure the IPCam SECURE300W

Open the Internet Browser → Type the IP Address of 192.168.0.20 → Click on "System Administration" to configure the IPCam SECURE300W.

For more information about the configuration, please refer to the "Web Configureaiotn Utility"

Note:

If your router has UPnP function, I will suggestion you to enable the UPnP function of the IPCam SECURE300W. After enabling the UPnP function, you can link to the IPCam SECURE300W directly from "My Networking Places".

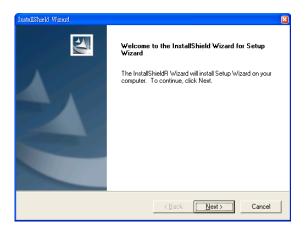
Using the Setup Wizard

The Setup Wizard is a convenient tool that will guide you through the installation of the IPCam SECURE300W easily and quickly

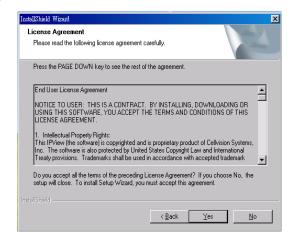
Insert the Installation CD into your CD-ROM drive. Click **Install Wizard.**



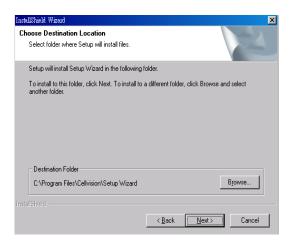
Click Next



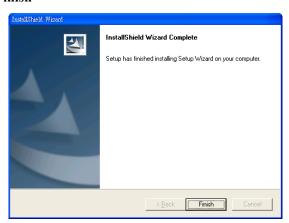
Click Yes



Click Next



Click Finish



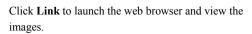
To run the Setup Wizard, click on **Start** -> **Programs** -> **Setup Wizard.** When you launch the Setup Wizard, the main window will appear as shown and the IPCam SECURE300W's default IP Address will be displayed on the screen.





Click **Wizard** to begin configuring the selected camera.

Click **Research** allows you to search the connected camera again.





Click **About** to show the general information of the selected camera.

Click Exit to close the Setup Wizard.

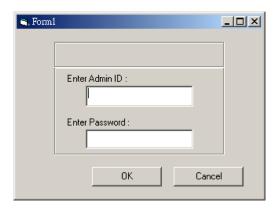
Changing the Admin ID and Password

By default settings, the Admin ID and Password are blank. For security purpose, you are recommended to change the **Admin ID** and Password immediately

Click **Wizard** to begin. The dialog box as shown appears, asking you to enter the **Admin ID** and **Password**. Click **OK**

Note:

We don't set up the Admin ID and Password for the default value. So, just click "**OK**" to continue



If required, select the Change box and enter the new **Admin ID** and **Password** Click **Next**



The settings of IP Address, Subnet Mask and Default Gateway must correspond with your camera and networking settings. Please check with your network administrator for correct settings.

Click Next



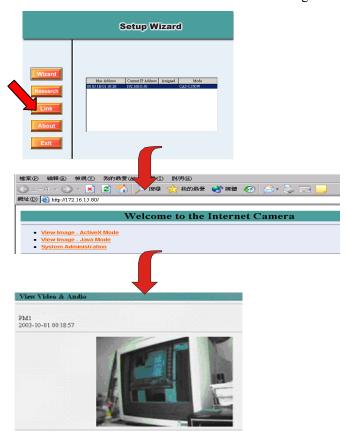
The **Connection Mode** depends on how your camera is connected to your network. Click **Infrastructure** for use with a router or **Adhoc** for peer-to- peer. The **Network Name**, **Wireless Channel**, and **Encryption Key** <u>MUST</u> correspond with your wireless network settings.



This window displays the settings you set up. For any change, click **Back** to modify your settings. Otherwise, click **Restart** to save and apply the settings.



Once the configuration is complete, you will return to the main window. Click **Link** to launch the web browser and view the images.



Using the Configuration Menu

After completing the Setup Wizard, you are ready to use the IPCam SECURE300W.

Through the Web-based Configuration, you can access and configure the IPCam SECURE300W easily. To open up the main configuration page, please click on **Link** or simply enter the IP address of the IPCam SECURE300W on the web browser.

Note:

The IP address of the computer connected to the IPCam SECURE300W MUST correspond with the IPCam SECURE300W's IP address. The computer and the IPCam SECURE300W then are able to communicate in the same segment.

After the IP address is entered from the web browser, the IPCam SECURE300W Welcome screen will appear with a still image. There will be three choices to set up or view the IPCam SECURE300W:

- View Video-ActiveX Mode
- View Video-Java Mode
- System Administration

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Web Configuration Utility

After clicking on "System Administration" to access the settings required for the IPCam SECURE300W, there will be several options in the Configuration page to choose from to set up the IPCam SECURE300W and they are as follows:

■ Management

System

Video

Wireless

Network

User

Configuration

System

Video

Wireless

Network

User

■ Tools

E-mail test

Reset

Factory Reset

Firmware Upgrade

Backup

■ Help

About

■ Home

■ System Administration

The Management window contains the information of your configuration. Click the items in the left column to view your settings, including: **System**, **Video**, **Wireless**, **Network**, and **User**.

System



Device Status: The information about the camera, including

the Camera Name, Location, Model, Firmware Version, MAC Address and IP Address, can

be found in this field.

Ethernet Status: You can monitor the networking status in this

field, including the Link (network connection),

Speed, and the Duplex mode.

Video

Click the **Video** item in the left column to display the video configuration of your camera.



 Video Status: The video configuration about the camera, including the Video Resolution, Compression Rate, Frame Rate, Frame Size and IP Address, can be found in this field.

Wireless

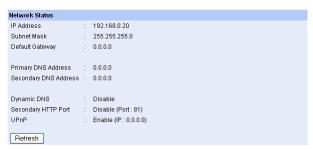
Click the **Wireless** item in the left column to display the information of the wireless LAN.



- Wireless Status: The items in this field display the information of the wireless LAN, such as the Connection Mode (Infrastructure or Ad-Hoc), Link, SSID, Channel, Transmission Rate, and WEP Encryption.

Network

Click the **Network** item in the left column to display the information of the LAN.



 Network Status: The items in this field display the information of the LAN, such as the IP Address, Subnet Mask, Default Gateway, Primary DNS Address, Secondary DNS Address, Dynamic DNS, Secondary HTTP Port, and UPnP.

<u>User</u>

Click the **User** item in the left column to display the user(s) information.



- Active Users: The items in this field display the user(s) information, including the user(s) IP address, Name, and DateTime.

■ System Administration → Configuration

The **Configuration** window contains commands for settings that are required to input key details to setup the camera for operation. Click **Configuration** in the top menu bar and the Configuration window will appear as below:



System

Click the **System** item in the left column to setup the basic configuration of your camera.



- **System Setting:** In this field, you can configure the basic information of your camera.
 - Camera Name: This field is used to enter a descriptive name for the device. The default setting for the Camera Name is *CS-xxxxxx*, where *xxxxxx* is the last six digits of the MAC Address. The maximum length is 32 (printable ASCII).
 - Location: This field is used to enter a descriptive name for the location used by the camera (optional).
 - Admin: This field is used to enter the administrator name along with the password to access the System Administration settings. Be sure to enter the password twice to confirm the details once in the Admin Password field and again in the Confirm Password field.

The default setting for administrator is blank space (Null String), and you need to key in the administrator name with a maximum length of 12 (printable ASCII) characters and enter the administrator password with a maximum length of 8 (printable ASCII) characters.

It is highly recommended to set the Admin ID and Admin Password as soon as possible to enable security option for the IPCam SECURE300W to function.

• LED Control: This option allows the user to setup the LED illumination as desired. This feature provides the flexibility when surveillance activity is ON. There are three options as follows:

Normal	Power - Steady On of the LED indicator. Link - Steady On of the LED indicator. When WLAN activity is present the LED indicator will flash steadily.
OFF	Power - LED indicator is off. Link – LED indicator is off.

	•
Dummy	Power - Steady On of the LED indicator. Link - Steady On of the LED indicator with random flashing.

The default setting for the LED control is *Normal*. When you have configured the LED control, the correct illumination will be set after 1 minute.

Video

Click the **Video** item in the left column to setup the image configuration of your camera.

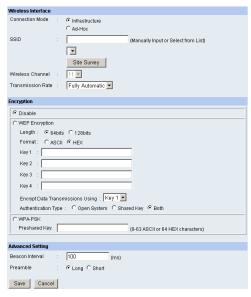


- **Video Setting:** In this field, you can configure the basic information of your camera.
 - Video Resolution: Select the desired video resolution format, including 160x120, 320x240 (default) and 640x480
 - Compression Rate: Select the desired compression rate with five levels from *Very Low* to *Very High*. Higher video compression rate will generate more

- compact file size with less video quality and viseversa. The default setting is *Medium*.
- Frame Rate: Select the frame rate desired with default setting at *Auto* for optimal frame rate.
- **Brightness Control:** Adjust the brightness level with default setting at *64*.
- Contrast Control: Adjust the contrast level with default setting at 64.
- **Saturation Control:** Adjust the saturation with default setting at *64*.
- **Light Frequency:** Adjust the light frequency to suit your area of operation from the options either 50 Hz or 60 Hz (default).
- Mirror: Select *Horizontal Mirror* to display the image in a horizontal mirror mode, or *Vertical Mirror* to display the image in a vertical mirror mode.
- Anti-Flicker: If you capture a flicker image because of the environment factor (for example, high light of lamp), please select this item to solve the problem.

Wireless

Click the **Wireless** item in the left column to setup the wireless LAN configuration of your camera.



Wireless Interface

- **Connection Mode:** Use this option to determine the type of wireless communication for your camera. There are two choices: Infrastructure mode and Ad-Hoc mode. The default setting is *Infrastructure*.
- **SSID:** The SSID (Service Set Identifier) is the name assigned to the wireless network. It will auto-detect and display the SSID of wireless network connected in this box (it displays *default* initially). This default setting

will let the camera connect to ANY access point under the infrastructure network mode.

To connect the camera to a specific access point on the network, please make sure to set the SSID of the camera to correspond with the access point's SSID for communication. Type any string up to 32 characters long (spaces, symbols, and punctuation are not allowed) in the Network Name box.

To connect the camera to an Ad-Hoc wireless workgroup, make sure to set the same wireless channel and SSID to match with the PC/Notebook's configuration for direct wireless communication.

- Wireless Channel: This pull-down menu provides the wireless channel for communication. A "channel" is a range of frequencies to be used in communication between the camera and access point in Infrastructure mode, or the camera and PC/Notebook in Ad-Hoc mode. Select the appropriate channel from the list provided depending on the regulatory region where the unit is sold. The default setting is at channel 11.
- Transmission Rate: Select the data transmit rate from this pull-down menu. The default setting is *Fully Automatic*.

- WEP Encryption

• WEP Encryption: Wireless network communications can be intercepted easily. WEP (Wired Equivalent Privacy) is an encryption method specified by the IEEE 802.11g standard to make any intercepted communications extremely difficult to interpret by

- unauthorized parties. The default setting for this option is *Disable*.
- WEP Key Format: To enable WEP Encryption, you should decide the encryption format first by selecting the *ASCII* or *HEX* option, and then input the WEP key (in the following Key 1~4 box).

ASCII input format:

ASCII format causes each character you type to be interpreted as an eight-bit value. All unaccented upper- and lower-case Western European characters that can be input through your keyboard's typing zone are valid. To setup a 64-bit WEP key, input 5 ASCII characters. For example, '12345'. To setup an 128-bit WEP key, input 13 ASCII characters. For example, '1234567890123'. These character counts result in bit counts of 40 and 104 respectively; the camera will automatically pad your input to a bit count of 64 or 128.

HEX input format:

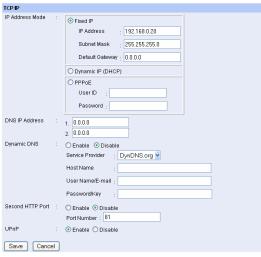
Hex format causes each pair of characters you type to be interpreted as an eight-bit value in hexadecimal (base 16) notation. Only the digits 0 through 9 and the letters A through F (in upper or lower case) are valid. To setup a 64-bit WEP key, input 10 HEX format. For example, '3132333435', which is the same with ASCII input '12345'. To setup an 128-bit WEP key, input 26 HEX format. For example, '31323334353637383930313233', which is the same with ASCII input '1234567890123'. These character counts result in bit counts of 40 and 104, respectively; the IPCam SECURE300W will automatically pad your input to a bit count of 64 or 128.

- Encrypt Data Transmissions Using: Use this pull-down menu to decide to use Key 1, 2, 3 or 4 for encryption).
- **WPA-PSK:** This item is used to secure your wireless network in pre-shared key mode (8-63 ASCII or 64

- HEX characters). If you enable this function, each user must enter a pass phrase to access the network.
- Advanced Setting: In this field, you can setup more advanced configuration.
 - **Beacon Interval:** This option defines time interval between two images sent.
 - Preamble: A preamble is a signal used in wireless environment to synchronize the transmitting timing including Synchronization and Start frame delimiter. Please NOTE that if you want to change the Preamble type into *Long* or *Short*, please check the setting of access point.
 - Authentication Type: *Open System* communicates the key across the network. *Shared Key* allows communication only with other devices with identical WEP settings. The default setting is *Both*.

Network

Click the **Network** item in the left column to setup the LAN configuration of your camera.



- TCP/IP: The items in this field display the information of the wireless LAN, such as the Connection Mode (Infrastructure or Ad-Hoc), Link, SSID, Channel, Transmission Rate, and WEP Encryption.
 - **IP Address Mode:** This field provides your with three options to select the IP Address Mode:
 - *Fixed IP* You can select this option and enter the IP address directly. The default settings are:
 - IP Address 192 168 0 20
 - Subnet Mask 255.255.255.0
 - Default Gateway 0.0.0.0

Dynamic Address (DHCP) – If your network uses the DHCP server, select this option. According to this setting, the camera will be assigned an IP address from the DHCP server automatically. Every time when the camera starts up, please make sure that the DHCP server is set to assign a static IP address to your camera.

PPPoE – If your application requires a direct connection from an ADSL modem through the camera's RJ-45 LAN port, click this option and enter the User ID and Password into the respective boxes. (*You should have an ISP PPPoE account.*) The camera will get an IP address from the ISP as starting up.

• DNS IP Address: DNS (Domain Name System) server is an Internet service that translates domain names into IP addresses. Enter at least one DNS IP Address in this field

• Dynamic DNS:

Dynamic DNS (Domain Name Service) is a method of keeping a domain name linked to a changing (dynamic) IP address. With most Cable and DSL connections, you are assigned a dynamic IP address and that address is used only for the duration of that specific connection. With the IPCam SECURE300W, you can set up your DDNS service and the IPCam SECURE300W will automatically update your DDNS server every time it receives a different IP address. Depending on the service, this update may take a few hours. If you are using a DDNS connection, click the **Enable** button and enter in your User Name, Password, and Domain Name. **Second HTTP Port**: The default port for communication is via port 80, and you can change it according to your

network configuration. Select *Enable* from the option and enter the desired port number in the following box.

By default, port 80 (Web server port) is open. If these ports are available for use, you DO NOT have to open a second port and can proceed to the next section. If port 80 is not available (for example, if you are already using port 80 to run a Web server or your ISP blocks access on port 80*) you MUST open a second port and designate a new Web server port (800, 801, 802,...etc)

Please note that some ISPs block traffic on commonly used ports like port 80 to disallow consumers from putting a server on their network. Be sure to check with your ISP so that you can open the appropriate ports accordingly. If your ISP does not pass traffic on port 80, you will need to change the Web server port the camera uses from 80 to something else, like 800. If you are behind a residential gateway, you will need to open a corresponding port on your gateway as well. Not all gateways are the same, please refer to your gateway's user's manual for specific instructions on how to forward ports.

• UPnP: The built-in UPnP support allows computers running Windows® XP/Me to recognize the IPCam SECURE300W and automatically add it to your network. The IPCam SECURE300W can be instantly accessed and viewed from "My Network Places" as a device on the network. You can configure the IPCam SECURE300W directly. Check the *Enable* option to enable the function of your camera.

Note:

- -The networking equipment for the Internet access (i.e. wireless AP router) must have UPnP feature. The UPnP function with the IPCam SECURE300W then works
- When you enable the UPnP function, you may get another IP address, which is not assigned by you. Don't worry about that unknown IP address, which is just given by the router. You only need to work with the IP Address you assigned to the IPCam SECURE300W.

• User

Click the **User** item in the left column to add, edit and delete users for your camera.



- User Access Control:
 - Access Control: The administrator has the authority to give permission for the privilege to control the device to users by selecting *Enable* or *Disable*. The default setting is *No*.
- Define Users: Use this field to add or delete users for your camera.

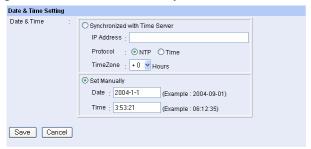
• Add User: Enter the user name in this box, and enter the user's password assigned by the administrator. The maximum password length is 8 (printable ASCII). The administrator has the authority to give permission for the privilege to control the Upload/E-mail Video control to the users by selecting Yes or No to activate the Upload/E-mail Video.

To add a new user's name, enter the necessary information first and click the **Add** button.

- **Delete User:** Select the user you want to delete from the pull-down menu, and then click the **Delete** button.
- **User List**: This list displays the current users status of your camera.

DateTime

Click the **DateTime** item in the left column to setup time and date for your camera, providing correct information for the remote users who might be thousands of miles away from the camera's location.



- Date & Time: You can set up time and date manually or automatically by selecting the *Synchronized with Time Server* option.

• Synchronized with Time Server: Select this option and the time will be based on GMT setting. The time will be synchronized every 10 minutes. When selecting this option, you have to enter the required information in the following fields:

IP Address – Enter the IP Address of the Time Server in this box.

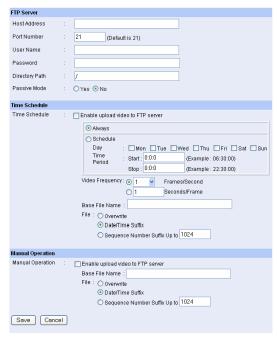
Protocol – Two options of NTP or Time are available for your selection to link with the Time Server. The default setting is NTP.

TimeZone – Select the time zone for the region from the pull-down menu.

• **Set Manually:** Select this option to set the time manually. The system administrator must enter the date and time in the respective field manually.

Upload

Click the **Upload** item in the left column to setup configuration for FTP server, time schedule and manual operation.

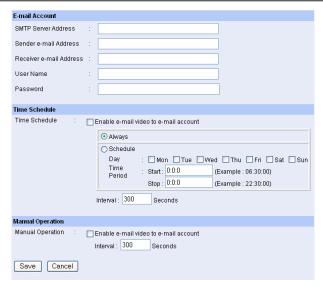


- FTP Server: This field contains the following six basic settings for your FTP server.
 - Host Address: The IP Address of the target FTP server.
 - **Port Number:** The standard port number for the FTP server is Port 21, and it's also the default setting. If the FTP server uses a specific port, please confirm the IT manager.
 - User Name: Enter the user name in this field.
 - **Password:** Enter the user password in this field to login to the FTP server.

- **Directory Path:** Enter an existing folder name in this field, and the images will be uploaded to the given folder.
- **Passive Mode:** This function depends on your FTP server. Please check with your IT manager if the FTP server uses passive mode. The default setting is *No*.
- **Time Schedule:** Select the "*Enable upload video to FTP server*" option and enter the relevant information, such as the schedule, video frequency and base file name.
 - **Schedule:** You can 1.) Choose *Always* to always upload the video to FTP server, or 2.) Set the *Schedule* to manage the uploading task. In the Schedule option, you can set the *Day* and *Time Period* option.
 - Video Frequency: There are two ways to set the video frequency: 1.) Set *Auto/1/2/3* frames per second, or 2.) Set the time in seconds for every frame.
 - Base File Name: Enter the file name to make sure that the images could be saved as the base file name.
 - File: Since you may not upload only one image to the FTP server, you can choose the filing rule, including *Overwrite*, *Date/Time Suffix*, and set up the *Sequence Number*.
- Manual Operation: When you click the Upload Video button in view video screen, it will start to upload the image. The setting refers to Base File Name and File information above.

E-mail

Click the **E-mail** item in the left column to setup configuration for E-mail account, time schedule and manual operation settings.



- **E-mail Account:** This field contains the following six basic settings for your FTP server.
 - **SMTP Server Address:** SMTP (Simple Mail Transfer Protocol) is a protocol for sending e-mail messages between servers you need to input the mail server address in this field.
 - Sender e-mail Address: Enter the e-mail address of the user who will send the e-mail
 - Receiver e-mail Address: Enter the e-mail address of the user who will receive the e-mail.
 - User Name: Enter the user name in this field.
 - Password: Enter the user password in this field to login receiver's mail server.

- Time Schedule: Select the "Enable-mail video to e-mail account" option to set schedule to send e-mail. Please refer to the instruction in "Upload" section. The Interval option is to define time interval between two images sent.
- Manual Operation: When you click the *E-mail Video* button in view video screen, it will start to e-mail image. The *Interval* option is to define time interval between two images sent.

■ System Administration → Tools

The **Tools** window contains commands for restarting the camera. Click **Tools** in the top menu bar and the Tools window will appear as below:



E-mail Test

Click the **E-mail Test** item in the left column to test your e-mail account



- **Test E-mail Account:** Click the **Test** button to test the email account you provided.

Reset

If you want to reset this device, Click the **YES** button from this option, and you can restart the camera just like turning the device off and on and saved settings are retained. If you do not want to reset the camera, exit this window without clicking **YES**.



Factory Reset

If you want to factory reset this device? Click the **YES** button from this option, and you can resume all factory default settings for the camera. If you do not want to restore the factory settings, exit this window without clicking **YES**. Please NOTE that you have to configure the network settings again after a Factory Reset.



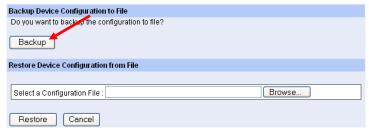
Firmware Upgrade

When new firmware is available, you can upgrade it through this window. Click the **Browse...** button to point to the firmware file, and then click **Update** to start upgrading.



Backup

Click the **Backup** item in the left column to backup the current configuration.



- Backup Device Configuration to File: Do you really want to backup the configuration to file? Click the **Backup** button from this option, and you can save the current configuration to file.
- Restore Device Configuration from File: You can resume the device configuration from saved file in the computer. Click the *Browse...* button to point to the file, and then click *Restore* to start restoring.

■ System Administration → Help

The **Help** window provides the basic information of the camera. Click **Help** in the top menu bar and the Help window will appear as below:



About

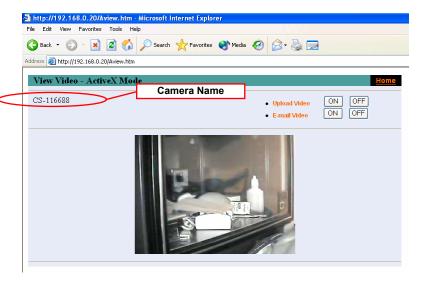
Displays the camera's model name and version.

Once the configuration is completed, click **Home** to return to the Welcome screen and select the desired View Video option either through **ActiveX Mode** or **Java Mode** as described in the next section.

Then, position the camera to the desired location appropriately for your purpose. Followed by adjustment of the camera focus, done manually by turning the lens clockwise or anti-clockwise to the desire image quality. Please refer to *Appendix F* for detailed instruction.

View Video-ActiveX Mode

To view video images from the browser, click **View Image** – **ActiveX Mode** from the Welcome screen to access the video images from Internet Explorer as illustrated below:

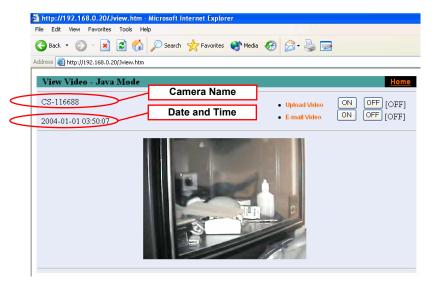


Camera Name: The Camera name will be displayed when the Camera Name field is entered in the Web Configuration setting under **Configuration**.

In the View Video – ActiveX Mode, you are allowed to use the Upload Video and E-mail Video options. Simply click the desired selection **ON** or **OFF** to utilize the options for each of the functions.

View Image-Java Mode

To view video images from the browser, click **View Image – Java Mode** from the Welcome screen to access the video images from Internet Explorer or Netscape browser as illustrated below:



Camera Name: The Camera name will be displayed when the Camera Name field is entered in the Web Configuration setting under **Configuration**.

Date and Time: The date/time of the camera will be displayed here.

In the View Video – Java Mode, you are allowed to use the Upload Video and E-mail Video options. Simply click the desired selection **ON** or **OFF** to utilize the options for each of the functions.

NOTE:

- 1. Please refer to the appendix on how to install ActiveX, including
- 1.) install to the Web Server, and 2.) install to your Local PC.
- 2. The administrator has the authority to set the upload video function through the setting in the **Upload** option under **Configuration**.
- 2. The administrator has the authority to set the e-mail video function through the setting in the **E-mail** option under **Configuration**.

This chapter describes the IPView SE, which is a powerful software application designed with a user-friendly interface for ease of control and navigation requirements.

IPView SE

Installation

Insert the CD-ROM into the CD-ROM drive to initiate the auto-run program. Once completed, a menu screen will appear as below:

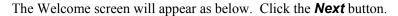


To install the IPView SE application, click the "IPView SE" button to activate the installation procedure for the application program.



Once executed, you will be asked to select the desired language. Select the language you want and click "**OK**" to continue.



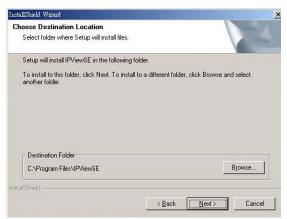




The License Agreement window will appear as below. Read the details carefully and click the **Yes** button.



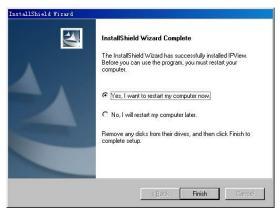
In the following window, you may click **Next** to accept the recommended destination location or click **Browse** to select another location. After specifying the desired destination location, click **Next**.



The following window allows you to select the folder where the IPView SE application will be located, click **Next** to continue.



Please wait until one of the following two dialog boxes to appear. If the system has to restart, select "Yes, I want to restart my computer now" and click the **Finish** button to complete the installation procedure.



Otherwise, you may simply click the *Finish* button to complete the installation procedure.



After successfully installing the IPView SE, the application program for the IPCam SECURE300W is automatically installed to \Programs\Files directory.

To start running the IPView SE, click **Start** > **Programs** > **IPView SE** > **IPView SE**.



Once login, the IPView SE application is executed and the interface of IPView SE will appear in the default List View format as bellow:

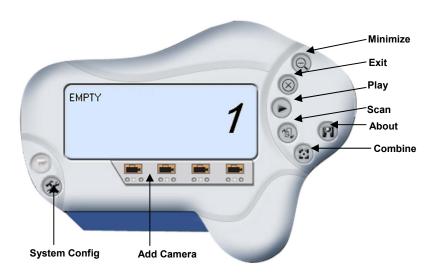


Getting Started

IPView SE is responsible for the management of preview, configuration, and searching of each camera.

It is designed with a user-friendly interface for ease of control and navigation requirements as illustrated below.

■ IPView SE control panel





Minimize

To minimize the control panel.



Exit

To close IPView SE



Play

To play back the recorded file.



Scan

To display each camera one by one.



Combine

To combine all display windows in one.



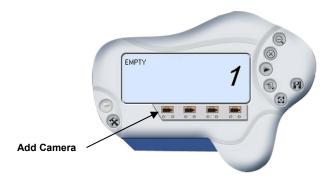
About

To display the information of IPView SE.

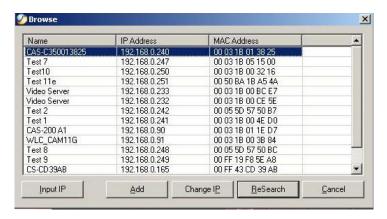
How to Add a Camera



Add Camera



To add a new camera, click the **Add Camera** button. An **Add Camera** dialog box will appear as illustrated below.



You must select the camera and click the *Add* button to add a new camera

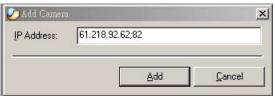
You can select the *Input IP* button, an **Input IP** dialog box will appear as illustrated below.



Enter the IP Address of the camera in the specified field and click the **Add** button to add a new camera.

Note:

- 1. If you want to add a camera through the Internet, you must key in a physical IP Address.
- 2. When the camera is installed behind Gateway and the Open Second Port of camera/Port Forwarding of Gateway function is enabled, the Gateway IP address has to be entered with the Port Number as below:



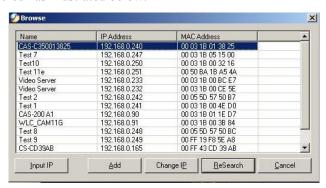
3. At the same time, the Gateway IP address can be replaced by URL as below:



4. If you forget the IP Address that you want to add, a dialog box will appear to notify you of the error.



If you are unsure of the IP Address of the camera, you can click the **Browse** button, the **Browse** Camera dialog box will appear with a blank screen as illustrated below.



You must select the camera and click the *Add* button to add a new camera

If the **Login Camera** dialog box appears, make sure to enter the correct **User Name** and **Password** and click the **OK** button. Then, the camera will be added into IPView SE in list format. If the **User Name** and **Password** is entered incorrectly, the camera will not be added into IPView SE.



The above dialog box will appear only if administrator has already set up the **User Name** and **Password** in the Web Configuration setting.

If you forget to highlight the camera you want to add, a dialog box will appear to notify you of the error.

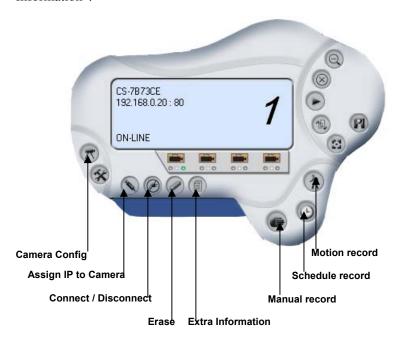


Make sure to save any changes you have made to keep the information updated.

Note:

You are allowed to add only one camera at a time.

When the user adds the camera, four icons will appear, including: "Assign IP to Camera", "Connect/Disconnect", "Erase", "Extra Information".

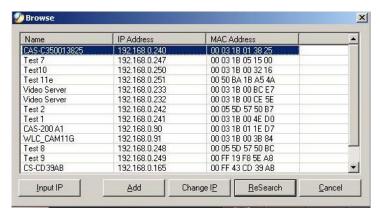


How to Change Camera



Assign IP of New Camera

To change camera, click the "Assign IP of Camera" button. An Assign IP of Camera dialog box will appear as illustrated below.



You must select the camera and click the *Add* button to add a new camera.

Connect/Disconnect the Image



Click the "Connect/Disconnect" button and the preview screen will appear with the video image.



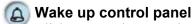
NOTE: When a new camera is added, it is connected. You can see the image right away. If you click the "Connect' Disconnect" button, it will be in disconnect, also, no image is shown.



Click to minimize the display screen of the camera.

- Maximize
 Click to maximize the display screen of the camera.
- Close Click to close the display screen of the camera.
- Always on top

 Click to have the display screen always appear on the top of the window.



Click to open the control panel again when it is closed.

Color setting

Click to adjust color of the image.

View list
Click to check the event list of the camera

Snapshot

Click to snapshot a picture from the camera.

Rotate image

Click to rotate the image of the camera.

Zoom

Click to zoom in/out the image of the Internet Camera.

■ **②** Disconnect the Image

Click the "Connect/Disconnect" button, and the camera will be disconnected.



How to Delete a Camera



Erase Camera

To delete a camera, you must select the camera to delete from the IPView SE control panel. Then, click the "Erase Camera" button.

After deleting the camera, the IPView SE control panel will appear as below.



Extra Information



Extra Information

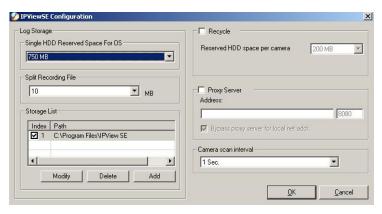
The screen displays the camera's information.



How to Adjust the Property Setting

■ System Configure

From the control panel, select the button and the dialog box will appear as shown below.



Log Storage:

- Single HDD Reserve Space
 This option permits reserved HDD space from 500 MB to 1000 MB.
- 2. Split Recording File

From this option, you can adjust the file size for recording the video images (the default setting is 10MB). If the recorded video files reach the file size, video images will be recorded into another file automatically.

By File Size - permits recording by file size from 10 MB to 50 MB

3. Storage List

This option is used to define the path to save image files.

The software will create a camera name folder as the "Storage List" which is allowed to create up to 16 File Path.

Recycle:

When you enabled this function, it will recycle the HDD space once the disk space is less than the size defined. The size defined can be from 200 MB to 50000 MB.

Proxy Server:

Select this option to enable the Proxy Server support.

Camera Scan Delay:

It allows you to display for each camera one by one. The time interval for each camera can be from 1 Sec. to 20 Sec.

■ Camera Configure

Click the "Camera Config" button and it will activate the Camera Setting, Motion Setting and Update Firmware buttons.



■ Camera Setting

Please refer to the "Web Configuration" section.

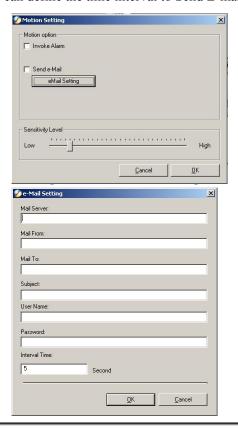


Motion Setting

You can adjust the sensitivity level and choose the Invoke Alarm options to work with the motion detection function.

Besides the Alarm Beep, Send Email can be enabled when motion detected.

The user can define the time interval to Send E-mail.



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Mail Server: Mail Server IP or name.

Mail From: E-Mail Address of sender.

Mail To: E-Mail Address of receiver.

Subject: Can be any information to high light the message.

User Name: Enter the user name in this field.

Password: Enter the user password in this field to login receiver's

mail server

Interval Time: The time interval to send next E-Mail is by second.



Update Firmware

Enter the **File Path** and click the **Update** button, the firmware will be updated automatically.



If you are unsure of the File path, you can click the **Browse** button, the **Browse** dialog box will appear as illustrated below.



Warning

During firmware update process, please make sure no interruptions will occur as it might possibly cause serious damage to the Internet Camera.

Adjust the Recording Setting

There are three ways to start recording an image - Motion Record, Schedule Record & Manual Record.



Motion Record

This option allows the camera to trigger recording by motion detected. You can adjust the sensitivity level and choose the warning options when motion is detected from motion setting.



Schedule Record

This option allows the camera to trigger recording as schedule defined. The schedule is set by date or weekday.



Manual Record

This option allows the camera to trigger recording manually.

Appendix

Frequently Asked Questions

Internet Camera Features

Q: What is an Internet Camera?

A: The IPCam SECURE300W is a standalone system connecting directly to an Ethernet or Fast Ethernet network and supported by the wireless transmission based on the IEEE 802.11g standard. It is different from a conventional PC Camera, the IPCam SECURE300W is an all-in-one system with built-in CPU and webbased solutions providing a low cost solution that can transmit high quality video images for monitoring. The IPCam SECURE300W can be managed remotely, accessed and controlled from any PC/Notebook over the Intranet or Internet via a web browser.

Q: What is the maximum number of users that can be allowed to access the IPCam SECURE300W simultaneously?

A: Maximum number of users that can log onto the IPCam SECURE300W at the same time is 64. Please keep in mind the overall performance of the transmission speed will slow down when many users are logged on.

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

A: The IPCam SECURE300W utilizes the JPEG image compression technology providing high quality images for users. JPEG is adopted since it is a standard for image compression and can be applied to

various web browser and application software without the need to install extra software

Q: Can I change the wireless antenna attached to the IPCam SECURE300W?

A: The wireless antenna can be changed for a variety of reasons such as extending the wireless transmission range, however, please consult authorized distributors before attempting as the connectors must be SMA connector type.

Q: What is the wireless transmission range for the IPCam SECURE300W?

A: Generally the wireless distance can go up to 100 meters indoors and up to 300 meters outdoors. The range is limited by the number of walls, ceilings, or other objects that the wireless signals must pass through. Typical ranges vary depending on the types of materials and background Radio Frequency (RF) noise in your home or business and the configuration setting of your network environment.

Internet Camera Installation

Q: Can the Internet Camera be used out-doors?

A: The IPCam SECURE300W is not weatherproof. It needs to be equipped with a weatherproof case to be used outdoors and it is not recommended.

Q: What network cabling is required for the IPCam SECURE300W? **A:** The IPCam SECURE300W uses Category 5 UTP cable allowing 10 Base-T and 100 Base-T networking.

Q: Can the IPCam SECURE300W be setup as a PC-cam on the computer?

A: No, the IPCam SECURE300W is an Internet Camera used only on Ethernet and Fast Ethernet network and supported by wireless transmission.

Q: Can the IPCam SECURE300W be connected on the network if it consists of only private IP addresses?

A: The IPCam SECURE300W can be connected to LAN with private IP addresses.

Q: Can the IPCam SECURE300W 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. You will need to do port forwarding by opening a port to the camera. Please refer to your firewall's product manual for detailed instructions.

Ping Your IP Address

The PING (Packet Internet Groper) command can determine whether a specific IP address is accessible by sending a packet to the specific address and waiting for a reply. It can also provide a very useful tool to confirm if the IP address conflicts with the IPCam SECURE300W over the network.

Follow the step-by-step procedure below to utilize the PING command. However, you must disconnect the IPCam SECURE300W from the network first.

Start a DOS window.

Type ping x.x.x.x, where x.x.x.x is the IP address of the IPCam SECURE300W

The succeeding replies as illustrated below will provide useful explanation to the cause of the problem with the IPCam SECURE300W IP address.

Trouble Shooting

O: I cannot access the IPCam SECURE300W from a web browser.

A1: The possible cause might be the IP Address for the IPCam SECURE300W is already being used by another device. To correct the possible problem, you need to first disconnect the IPCam SECURE300W from the network. Then run the PING utility (follow the instructions in the section of "PING Your IP Address").

A2: Another possible reason is the IP Address is located on a different subnet. To fix the problem, run the PING utility (follow the instructions in the section of "PING Your IP Address"). If the utility returns "no response" or similar, the finding is probably correct, then you should proceed as follows:

In Windows 95/98/2000 and Windows NT, double check the IP Address of the IPCam SECURE300W is within the same subnet as your workstation.

Click "Start", "Setting", "Control Panel", and the "Network" icon. Select TCP/IP from the "Network" dialog box and from the "TCP/IP Properties" dialog box click "Specify an IP address".

If the IPCam SECURE300W is situated on a different subnet than your workstation, you will not be able to set the IP address from this workstation. To verify make sure the first 3 sections of the IP address of the IPCam SECURE300W corresponds to the first 3 sections of the workstation. Therefore the IP address of the IPCam SECURE300W must be set from a workstation on the same subnet.

A3: Other possible problems might be due to the network cable. Try replacing your network cable. Test the network interface of the product by connecting a local computer to the unit, utilizing a standard Crossover (hub to hub) Cable. If the problem is not solved the IPCam SECURE300W might be faulty.

Q: Why does the Power LED not light up constantly?

A: The power supply used might be at fault. Confirm that you are using the provided power supply DC 5V for the IPCam SECURE300W and verify that the power supply is well connected.

Q: Why does the Link LED not light up properly?

A1: There might be a problem with the network cable. To confirm that the cables are working, PING the address of a known device on the network. If the cabling is OK and your network is reachable, you should receive a reply similar to the following (...bytes = 32 time = 2 ms).

A2: The network device utilized by the IPCam SECURE300W is not functioning properly such as hubs or switches. Confirm the power for the devices are well connected and functioning.

A3: The wireless connection might be at fault. In ad-hoc mode make sure the IPCam SECURE300W wireless channel and SSID is set to

match the PC/Notebook wireless channel and SSID for direct communication

Under infrastructure mode make sure the SSID on the PC/Notebook and the IPCam SECURE300W must match with the access point's SSID.

Q: Why does the IPCam SECURE300W work locally but not externally?

A1: Might be caused from the firewall protection. Need to check the Internet firewall with your system administrator.

A2: The default router setting might be a possible reason. Need to double check if the configuration of the default router settings is required.

Q: Why does a series of broad vertical white line appears through out the image?

A: A likely issue is that the CMOS sensor becomes overloaded when the light source is too bright such as direct exposure to sunlight or halogen light. You need to reposition the IPCam SECURE300W into a more shaded area immediately as this will damage the CMOS sensor.

Q: There is bad focus on the IPCam SECURE300W, what should be done?

A1: The focus might not be correctly adjusted for the line of sight. You need to adjust the IPCam SECURE300W focus manually as described in Adjust Internet Camera Focus.

A2: There is no adaptor fitted with your C-type lens. If you have previously changed the supplied CS-type lens, you may have unintentionally installed a C-type lens without fitting the adaptor first.

Q: Noisy images occur how can I solve the problem?

A1: The video images might be noisy if the IPCam SECURE300W is used is a very low light environment. To solve this issue you need more lighting.

A2: There might be wireless transmission interference. Make sure there are no other wireless devices on the network that will affect the wireless transmission.

Q: There is poor image quality, how can I improve the image?

A1: A probable cause might be the incorrect display properties configuration for your desktop. You need to open the Display Properties on your desktop and configure your display to show at least 65'000 colors for example at least 16-bit.

NOTE: Applying only 16 or 256 colors on your computer will produce dithering artifacts in the image.

A2: The configuration on the IPCam SECURE300W image display is incorrect. Through the Web Configuration Image section you need to adjust the image related parameter for improve images such as brightness, contrast, hue and light frequency. Please refer to the Web Configuration section for detail information.

Q: There are no images available through the web browser.

A: The ActiveX might be disabled. If you are viewing the images from Internet Explorer make sure ActiveX has been enabled in the

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Internet Options menu. Alternatively, you can use the Java Applet for viewing the required images.

Time Zone table

```
(GMT-12:00) Eniwetok, Kwajalein
(GMT-11:00) Midway Island, Samoa
(GMT-10:00) Hawaii
(GMT-09:00) Alaska
(GMT-08:00) Pacific Time (US & Canada); Tijuana
(GMT-07:00) Arizona
(GMT-07:00) Mountain Time (US & Canada)
(GMT-06:00) Central Time (US & Canada)
(GMT-06:00) Mexico City, Tegucigalpa
(GMT-06:00) Saskatchewan
(GMT-05:00) Bogota, Lima, Quito
(GMT-05:00) Eastern Time (US & Canada)
(GMT-05:00) Indiana (East)
(GMT-04:00) Atlantic Time (Canada)
(GMT-04:00) Caracas, La Paz
(GMT-04:00) Santiago
(GMT-03:30) Newfoundland
(GMT-03:00) Brasilia
(GMT-03:00) Buenos Aires, Georgetown
(GMT-02:00) Mid-Atlantic
(GMT-01:00) Azores, Cape Verde Is.
(GMT) Casablanca, Monrovia
(GMT) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London
(GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
(GMT+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague
(GMT+01:00) Brussels, Copenhagen, Madrid, Paris, Vilnius
(GMT+01:00) Sarajevo, Skopje, Sofija, Warsaw, Zagreb
(GMT+02:00) Athens, Istanbul, Minsk.
(GMT+02:00) Bucharest
(GMT+02:00) Cairo
```

```
(GMT+07:00) Bangkok, Hanoi, Jakarta
(GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi
(GMT+08:00) Perth
(GMT+08:00) Singapore
(GMT+08:00) Taipei
(GMT+09:00) Osaka, Sapporo, Tokyo
(GMT+09:00) Seoul
(GMT+09:00) Yakutsk
(GMT+09:30) Adelaide
(GMT+09:30) Darwin
(GMT+10:00) Brisbane
(GMT+10:00) Canberra, Melbourne, Sydney
(GMT+08:00) Singapore
(GMT+08:00) Taipei
(GMT+09:00) Osaka, Sapporo, Tokyo
(GMT+09:00) Seoul
(GMT+09:00) Yakutsk
(GMT+09:30) Adelaide
(GMT+09:30) Darwin
(GMT+10:00) Brisbane
(GMT+10:00) Canberra, Melbourne, Sydney
(GMT+10:00) Guam, Port Moresby
(GMT+10:00) Hobart
(GMT+10:00) Vladivostok
(GMT+11:00) Magadan, Solomon Is., New Caledonia
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(GMT+12:00) Auckland, Wellington (GMT+12:00) Fiji, Kamchatka, Marshall Is.

Xplug Control Installation

Installation To Web Server

Important Information

It is highly recommended to install the Xplug Control application to the Web Server for IE 5.0. It must be installed to a Public Domain with Fixed IP address.

1. Installation:

Copy the "xplug.ocx" file to any WEB Server table.

2. Setting (Configuration):

From the Web Configuration menu select "System" and under the "Loading ActiveX From" input web server location

(http://www.web server location.com/).

Once the settings are completed, the user now is able to access the Internet Camera from the web browser by selecting the image view – ActiveX mode.

Installation To Local PC

Insert the CD-ROM into the CD-ROM drive to initiate the auto-run program. Once completed, a menu screen will appear as below:

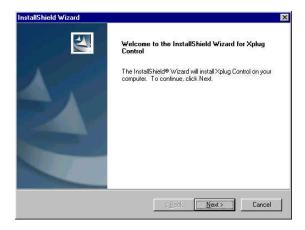


To install Xplug Control, click the "**Xplug Control**" button to activate the installation procedure for the plug-in program.

Once executed, a prompt will appear requesting the input of the desired language selection. Make the desired selection and click "**OK**" to continue.



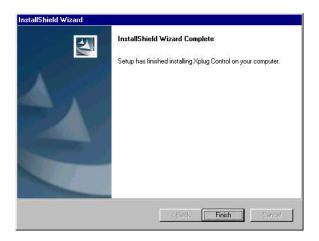
The Welcome screen will appear. Click the "Next" button to proceed with the installation.



The License Agreement prompt will appear as below. Read the details carefully and click the "Yes" button to continue with the installation procedure.



Click the "**Finish**" button to complete Setup of the Xplug Control Utility program for the IPCam SECURE300W.



Adjust Internet Camera Focus

To adjust the focus of the lens, you need to turn the lens slowly in either clockwise or anti-clockwise direction until the desired image appears. DO NOT over turn the lens in either of the directions, as it will be out of focus.

NOTE: You can further adjust the IPCam SECURE300W's image quality through System Administration – Image of Web Configuration. Please refer to Web Configuration section for further details.

Warning

Direct exposure to sunlight may cause permanent damage to the CMOS sensor. Therefore do not expose the Internet Camera's lens directly to sunlight. When operation is required in glaring light environment, it is recommended to use an iris lens.

The Internet Camera is designed for indoor usage and if your application requires prolong exposure to sunlight, a sun visor is recommended to protect the Internet Camera.

Specification

Video specification

Resolution: 640 x 480 pixel
Sensor: Color CMOS sensor
Lens: f: 6.0 mm, F: 1.8

Gain control: Automatic
Exposure: Automatic
White Balance: Automatic

Image (Video Setting)

Image compression: JPEG

Frame rate: 30fps @ QCIF, 25fps @ CIF,

10fps @ VGA

Compression Rate selection: 5 levels: Very low/Low/

Middle/High/Very high

Frame rate setting: 1, 5, 7, 15, 20, Auto (depends on

the video format)

Video resolution: 160x120, 320x240, 640x480

Digital Zoom: Supported Horizontal/ Vertical mirror: Supported

Hardware Interface

LAN Connector: One RJ-45 port, 10/100M auto-

sensed, Auto-MDIX

Wireless LAN:

Built-in 802.11g wireless LAN

Communication protocol: HTTP, FTP, TCP/IP, UDP, ARP, ICMP, BOOTP, DHCP, PPPoE,

CMTD DDNC LIDED

SMTP, DDNS, UPnP

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CPU: RDC R2880

RAM: 8MB Flash ROM: 2MB OS: RTOS

Power Supply: DC 5V, switching type
Power consumption: 5 Watt (1000mA x 5V)
LED Indicator: Power LED (Blue)
Activity LED (Orange)

Software

Browser: Internet Explorer 5.0 or above;

Netscape 6.0 or above

Application Software: IPView SE

OS supported: Microsoft Windows 98SE/ME/

2000/XP, Windows NT4.0

Operating environment

Operating temperature: $5^{\circ}\text{C} \sim 40^{\circ}\text{C}$ Storage temperature: $-25^{\circ}\text{C} \sim 50^{\circ}\text{C}$

Humidity: $5\% \sim 95\%$, non-condensing

EMI

FCC, CE, VCCI Class B

Glossary of Terms

NUMBERS

10BASE-T 10BASE-T is Ethernet over UTP Category III,IV, or V

unshielded twisted-pair media.

100BASE-TX The two-pair twisted-media implementation of 100BASE-

T is called 100BASE-TX.

802.11g An IEEE standard for wireless local area networks. It

offers transmissions speeds at up to 54 Mbps in the 2.4-

GHz band.

A

Access point It is the hardware interface between a wireless LAN and a

wired LAN. The access point attaches to the wired LAN

through an Ethernet connection.

Applet Applets are small Java programs that can be embedded in

an HTML page. The rule at the moment is that an applet can only make an Internet connection to the computer

from that the applet was sent.

ASCII American Standard Code For Information Interchange, it

is the standard method for encoding characters as 8-bit sequences of binary numbers, allowing a maximum of 256

characters.

ARP Address Resolution Protocol. ARP is a protocol that

resides at the TCP/IP Internet layer that delivers data on

the same network by translating an IP address to a physical address.

AVI

Audio Video Interleave, it is a Windows platform audio and video file type, a common format for small movies and videos.

R

BOOTP

Bootstrap Protocol is an Internet protocol that can automatically configure a network device in a diskless workstation to give its own IP address.

 \mathbf{C}

Communication Communication has four components: sender, receiver, message, and medium. In networks, devices and application tasks and processes communicate messages to each other over media. They represent the sender and receivers. The data they send is the message. The cabling or transmission method they use is the medium.

Connection

In networking, two devices establish a connection to communicate with each other

D

DHCP

Dynamic Host Configuration Protocol was developed by Microsoft for assigning dynamic IP addresses to devices on a network. With dynamic addressing, a device can have a different IP address every time it connects to the network. In some systems, the device's IP address can even change while it is still connected. DHCP also supports a mix of static and dynamic IP addresses. This simplifies the task for network administrators because the software keeps track of IP addresses rather than requiring an administrator to manage the task. This means a new computer can be added to a network without the hassle of manually assigning it a unique IP address. DHCP allows the specification for the service provided by a router, gateway, or other network device that automatically assigns an IP address to any device that requests one

DNS

Domain Name System is an Internet service that translates domain names into IP addresses. Since domain names are alphabetic, they're easier to remember. The Internet however, is really based on IP addresses every time you use a domain name the DNS will translate the name into the corresponding IP address. For example, the domain name www.network_camera.com might translate to 192.167.222.8.

\mathbf{E}

Enterprise network

An enterprise network consists of collections of networks connected to each other over a geographically dispersed area. The enterprise network serves the needs of a widely distributed company and operates the company's mission-critical applications.

Ethernet

The most popular LAN communication technology. There are a variety of types of Ethernet, including 10 Mbps

(traditional Ethernet), 100 Mbps (Fast Ethernet), and 1,000 Mbps (Gigabit Ethernet). Most Ethernet networks use Category 5 cabling to carry information, in the form of electrical signals, between devices. Ethernet is an implementation of CSMA/CD that operates in a bus or star topology.

F

Fast Ethernet

Fast Ethernet, also called 100BASE-T, operates at 10 or 100Mbps per second over UTP, STP, or fiber-optic media.

Firewall

Firewall is considered the first line of defense in protecting private information. For better security, data can be encrypted. A system designed to prevent unauthorized access to or from a private network. Firewalls are frequently used to prevent unauthorized Internet users from accessing private networks connected to the Internet, especially Intranets all messages entering or leaving the intranet pass through the firewall, which examines each message and blocks those that do not meet the specified security criteria.

G

Gateway

A gateway links computers that use different data formats together.

Group

Groups consist of several user machines that have similar characteristics such as being in the same department.

Η

HEX

Short for hexadecimal refers to the base-16 number system, which consists of 16 unique symbols: the numbers 0 to 9 and the letters A to F. For example, the decimal number 15 is represented as F in the hexadecimal numbering system. The hexadecimal system is useful because it can represent every byte (8 bits) as two consecutive hexadecimal digits. It is easier for humans to read hexadecimal numbers than binary numbers.

I

Institute of Electrical and Electronic Engineers. IEEE

Intranet

This is a private network, inside an organization or company, that uses the same software you will find on the public Internet. The only difference is that an Intranet is used for internal usage only.

Internet

The Internet is a globally linked system of computers that are logically connected based on the Internet Protocol The Internet provides different ways to access private and public information worldwide.

Internet address To participate in Internet communications and on Internet Protocol-based networks, a node must have an Internet address that identifies it to the other nodes. All Internet addresses are IP addresses

ΙP

Internet Protocol is the standard that describes the layout of the basic unit of information on the Internet (the *packet*) and also details the numerical addressing format used to route the information. Your Internet service provider controls the IP address of any device it connects to the Internet. The IP addresses in your network must conform to IP addressing rules. In smaller LANs, most people will allow the DHCP function of a router or gateway to assign the IP addresses on internal networks.

IP address

IP address is a 32-binary digit number that identifies each sender or receiver of information that is sent in packets across the Internet. For example 80.80.80.69 is an IP address, it is the closet thing the Internet has to telephone numbers. When you "call" that number, using any connection methods, you get connected to the computer that "owns" that IP address.

ISP

Internet Service Provider, is a company that maintains a network that is linked to the Internet by way of a dedicated communication line. An ISP offers the use of its dedicated communication lines to companies or individuals who can't afford the high monthly cost for a direct connection.

J

JAVA

Java is a programming language that is specially designed for writing programs that can be safely downloaded to your computer through the Internet without the fear of viruses. It is an object-oriented multi-thread programming best for creating applets and applications for the Internet, Intranet and other complex, distributed network.

L

LAN

Local Area Network a computer network that spans a relatively small area sharing common resources. Most LANs are confined to a single building or group of buildings.

N

NAT

Network Address Translator generally applied by a router, that makes many different IP addresses on an internal network appear to the Internet as a single address. For routing messages properly within your network, each device requires a unique IP address. But the addresses may not be valid outside your network. NAT solves the problem. When devices within your network request information from the Internet, the requests are forwarded to the Internet under the router's IP address. NAT distributes the responses to the proper IP addresses within your network.

Network

A network consists of a collection of two or more devices, people, or components that communicate with each other over physical or virtual media. The most common types of network are:

LAN – (local area network): Computers are in close distance to one another. They are usually in the same office space, room, or building.

WAN – (wide area network): The computers are in different geographic locations and are connected by telephone lines or radio waves.

NWay Protocol

A network protocol that can automatically negotiate the highest possible transmission speed between two devices.

P

PING

Packet Internet Groper, a utility used to determine whether a specific IP address is accessible. It functions by sending a packet to the specified address and waits for a reply. It is primarily used to troubleshoot Internet connections.

PPPoE

Point-to-Point Protocol over Ethernet. PPPoE is a specification for connecting the users on an Ethernet to the Internet through a common broadband medium, such as DSL or cable modem. All the users over the Ethernet share a common connection.

Protocol

Communication on the network is governed by sets of rules called protocols. Protocols provide the guidelines devices use to communicate with each other, and thus they have different functions. Some protocols are responsible for formatting and presenting and presenting data that will be transferred from file server memory to the file server's net work adapter Others are responsible for filtering information between networks and forwarding data to its destination. Still other protocols dictate how data is transferred across the medium, and how servers respond to workstation requests and vice versa. Common network protocols responsible for the presentation and formatting of data for a network operating system are the Internetwork Packet Exchange (IPX) protocol or the Internet Protocol (IP). Protocols that dictate the format of data for transferors the medium include token-passing and

Carrier Sense Multiple Access with Collision Detection (CSMA/CD),implemented as token-ring, ARCNET, FDDI, or Ethernet. The Router Information Protocol (RIP),a part of the Transmission Control Protocol/Internet Protocol (TCP/IP) suite, forwards packets from one network to another using the same network protocol.

RARP Reverse Address Resolution Protocol, a TCP/IP protocol that allows a physical address, such as an Ethernet address, to be translated into an IP address.

RJ-45 RJ-45 connector is used for Ethernet cable connections

Router A router is the network software or hardware entity charged with routing packets between networks.

 \mathbf{S}

Server It is a simple computer that provides resources, such as files or other information.

SMTP The Simple Mail Transfer Protocol is used for Internet mail.

SNMP Simple Network Management Protocol. SNMP was designed to provide a common foundation for managing network devices.

Station

In LANs, a station consists of a device that can communicate data on the network. In FDDI, a station includes both physical nodes and addressable logical devices. Workstations, single-attach stations, dual-attach stations, and concentrators are FDDI stations.

Subnet mask

In TCP/IP, the bits used to create the subnet are called the subnet mask.

T

(TCP/IP)

Transmission Control Protocol/Internet Protocol is a widely used transport protocol that connects diverse computers of various transmission methods. It was developed y the Department of Defense to connect different computer types and led to the development of the Internet.

Transceiver

A transceiver joins two network segments together. Transceivers can also be used to join a segment that uses one medium to a segment that uses a different medium. On a 10BASE-5 network, the transceiver connects the network adapter or other network device to the medium. Transceivers also can be used on 10BASE-2 or 10BASE-T networks to attach devices with AUI ports.

U

UDP

The User Datagram Protocol is a connectionless protocol that resides above IP in the TCP/IP suite

ULP The upper-layer protocol refers to Application Layer

protocols such as FTP, SNMP, and SMTP.

User Name The USERNAME is the unique name assigned to each

person who has access to the LAN.

Utility It is a program that performs a specific task.

UTP Unshielded twisted-pair. UTP is a form of cable used by

all access methods. It consists of several pairs of wires

enclosed in an unshielded sheath.

W

WAN Wide-Area Network. A wide-area network consists of

groups of interconnected computers that are separated by a wide distance and communicate with each other via

common carrier telecommunication techniques.

Windows Windows is a graphical user interface for workstations

that use DOS.

Workgroup A workgroup is a group of users who are physically

located together and connected to the same LAN, or a group of users who are scattered throughout an organization but are logically connected by work and are

connected to the same network group.

Workstations Workstation refers to the intelligent computer on the

user's desktop. This computer may be an Intel-based PC, a

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Macintosh, or a UNIX-based workstation. The workstation is any intelligent device a user works from.