OSE-801 IP Speed Dome Camera Quick Installation Guide

Product: OSE-801 IP Speed Dome Camera
Document: Quick Installation Guide
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Preface

Congratulations for the purchasing of the world's most compact IP speed dome camera. This IP speed dome camera is designed and manufactured not just to meet the requirements for modern remote digital surveillance, but also increase the systems' overall performance.

This camera line incorporates high resolution color CCD with ICR function. The CCD can be set up for automatic switching to black-white mode for night-vision ready when illumination is low. The pan-tilt mechanism provides controllable panning (360°) and tilting (90°) functions, giving users the capability to manipulate the camera for precise locating on target. The built-in micro-controller allows users to program up to 32 presets for quick and accurate capture to specific view positions. Moving speed, ranging from 0.25 to 300 degrees per second and is selectable to controller, is variable in optional levels. Dwell time of each view position is also selectable in seconds. Also, this camera is equipped with 2-way audio which offers user not only can monitor the videos but also audio receiving and broadcasting capability.

System function includes I/O for alarm function for intrusion management. This device is driven by DC12V power. It can be controlled on web IE, PC, or multi-camera management software we attach to you in the package.

This camera is designed to be water-resistant for iutdoor use, under the condition of normal temperature range from 0° to 50° C. A companion outdoor housing is also available for severe weather condition (extreme low or high temperature environment).

Product

Product Features Overview

- Compact Size of 4-1/2" (114 mm) diameter
- High resolution color CCD 480 TV lines
- 23 times optical zoom
- Continuous panning for 360°; Tilt for 180°
- Fast rotation speed up to 300° per second
- BNC connector for video output
- Programmable for view position, speed and dwell
- View position preset up to 32 points
- Auto-pan and preset locations cruise

- 2 alarm inputs and 1 alarm output
- 12V DC
- Water resistant design
- Be able for embedded, surface, wall and ceiling mount
- External housing for severe outdoor environment (Option)
- MPEG4 web server module
- Two-way audio communication

What is Quick Installation Guide (QIG)

The purpose of this QIG is to guide you how to setup this system in order to view remote video images of video server on IE. As for details of setup functions on IE and management software, user's manual has more details to discuss.

Product & Accessories

Please check packing contents thoroughly while opening this pack. Please contact your reseller while item is missing.

Quick Installation Guide

OSE-801*1

Software CD ROM*1

Accessories

Plastic Ring*1

Metal Ring*1

Metal bowl holder

Mounting base

Hardware Wires & Indicator

1. Audio: Black: Microphone input ; Red: Speaker

2. Video Output: BNC bypass analog video to connect TV or monitor.

3. RJ-45: 10/100 Mbps auto detection to connect networking device such as switch/hub, IP sharing, or router.

4. Power indicator: Plug-in power will auto light on

5. Reset Button: Use L-type wrench and press this button for 5 seconds to restore manufacture's default values.

6. Power: plug-in standard DC-12V

7. I/O: Product offers 2 digital inputs and one digital output to integrate other security devices.
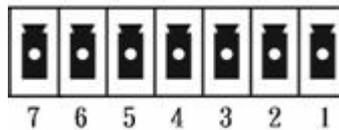
Port.		Function	Remark
1 Black	DI1+	DI-1 positive	Max.50mA 12VDC
2 Brown	DI1-	DI-1 negative	
3 Red	DI2+	DI-2 positive	Max. 50mA 12VDC
4 Orange	DI2-	DI-2 negative	
5 Purple	DO	DO positive	Max 3A 125VAC / 30VDC
6 Grey	DO	DO negative	
7 Blue	COM	TX/RX	Non-inverting

System Reference Structure
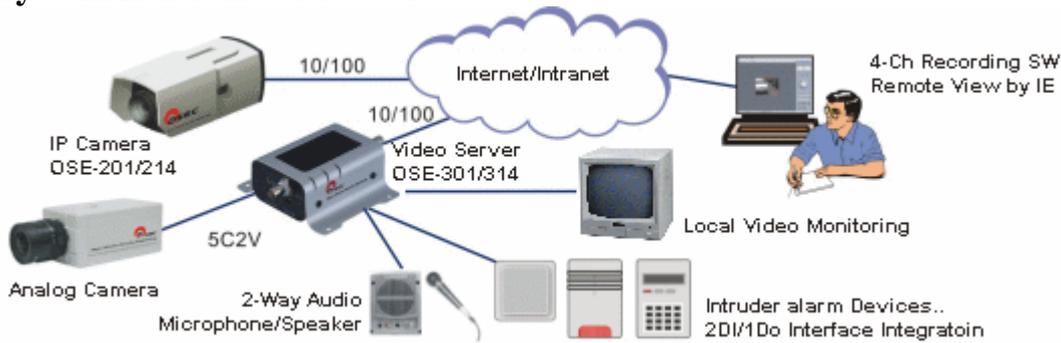
Additional Accessories for System

• Alarm/Access control: DI/DO to connect urgent button, sensor, buzzer, system for security integration.	**Alarm (option)**
• UTP cables: Prepare a parallel UTP cable with RJ45 connectors to connect network equipment e.g. switch/hub, IP sharing, router. Use a cross-over cable if directly connects to PC.	**RJ45 UTP cable**
• Recording Software Requirement: CPU Intel P4 3.0, 1G memory, 128 MB VGA, OS: Microsoft XP SP1 • IE View: Pentium Celeron 1.7G	**Personal computer**
• Audio: Microphone and speaker	**Microphone/speaker (option)**
• Bandwidth: XDSL broadband for Internet connection	

Mount The Camera

Mounting Accessory

	Description	Photo	Use
1	Plastic ring		To hold the camera embedded on ceiling Must be used with the metal ring together to hold the speed dome camera..
2	Metal ring		**To hold the camera embedded on ceiling** Must be used with the plastic decoration ring together to hold the speed dome camera.
3	Mounting base		**a To hold the camera on ceiling surface** b Used together with item # 4 (bowl type holder) for ceiling hold or wall mount
4	Metal bowl holder		**To work with item 3 for creating ceiling or wall mount**
5	Screw pack		**Screws for the build of camera's holding structure**

Surface mount onto Ceiling
    Locate the base onto the place the camera is to mount, and fix the base on the place tightly with screws through the 3 holes on the base (be sure screws are complete in the ceiling)
    Get the camera and secure it to the base with the supplied metal chain.
    Then fit the camera body to the base, rotate the camera body clockwise until it is completely locked into position.
Put the screw A (anti-loss) in position and screw it in

In case of dealing with a **concrete** wall:

    a.   Mark the locations for screw through the holes on the base
    b.   Make holes on the wall, then insert the supplied plastic plugs into the holes and squeeze them in until they are flush with the wall surface.
    c.   Mount the base on the desired place tightly with screws

Embed The Camera Into Ceiling

Step 1   make holes

To insert the speed dome into the ceiling, first a hole must be properly made to let the dome be through for hanging.

The best way to decide the diameter of the hole and the spots for mounting screws is to use the supplied metal holder.

- Put the holder on the surface of the target location and mark a circle with pencil or color marker
- Also mark out the spots for screws with the screw holes on the holder
- Cut the camera hole alone with the curve
- Drill holes for screw in 6 mm (1/4") on the three marked spots;
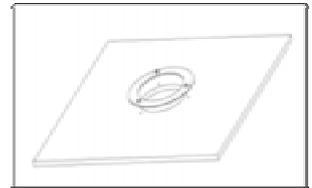
Step 2   **Integrate the decoration ring with camera**

The decoration ring is not just for nice looking, but also the piece to hold the camera in place for embedded mounting.
To integrate the ring to camera:

1. Take the transparent dome cover off
2. Locate the ring to the bottom side of the cover
3. Put the cover back to the camera
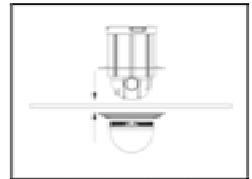
Step 3   **Mount the camera through the hole**

Take the below steps to make the camera cling to ceiling:

1. Place the auxiliary metal bracket onto the top of the ceiling
2. Put the camera through out the hole
3. Align the screw holes of the decoration ring and the auxiliary bracket
4. Put screws through and tighten the two brackets, with the ceiling in between
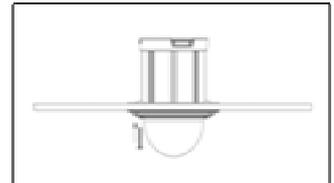
Wall-mounting

The mounting procedure

Step 1   Get the metal bowl and mounting base, put them together with screws to make them a sub-assembly for mounting.

Step 2   Hook the sub-assembly and camera with the safety cable located on the bottom of camera (left picture on below), then put the signal cables throughout the sub-assembly (right picture).

Step 3   Fasten the sub-assembly and camera together at the joint of D-sub connectors.
Rotate camera all the way in direction of clockwise.
Fix the base to camera with the supplied screw and wrench.

Step 4   Get the wall-mount bracket. Remove the metal cover (sheet) from the bracket   Fig-1

Step 5   Mount the bracket onto wall (Fig-2) but DO NOT tight the bracket to wall completely until the Step 6 and 7 are finished.
   Caution: Be sure the wall is strong enough to hold the entire device (i.e. housing + camera)

Step 6   Lay all the signal cables in the trench of bracket, and have all connectors come out bracket through the cable outlet (Fig-3).

Fig-1   Fig-2   Fig-3
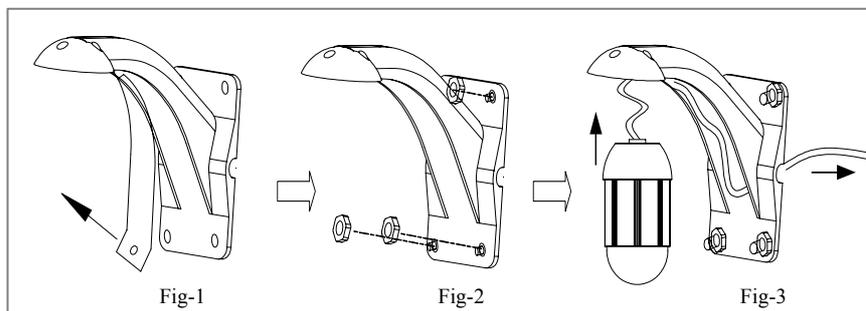
Step 7   Fasten the camera module (assembly) to the bracket with supplied screws   Fig-4

Step 8   Put the cover back to holder   Fig-5

Fig-4

Fig-5
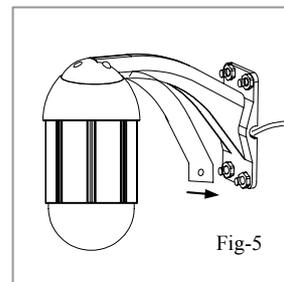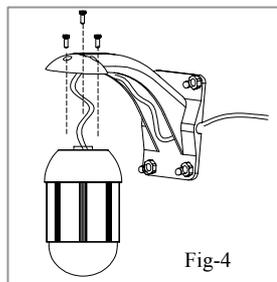
Ceiling-drop
To mount the camera from ceiling, a metal wall-mount bracket in separate package will be needed.

The mounting procedure

Step 1   Get the metal bowl and mounting base, put them together with screws to make them a   sub-assembly   for mounting.

Step 2   Hook the sub-assembly and camera with the safety cable located on the bottom of camera (left picture on below), then put the signal cables throughout the sub-assembly (right picture).

Step 3   Fasten the sub-assembly and camera together at the joint of D-sub connectors. Rotate camera all the way in direction of clockwise. Fix the base to camera with the supplied screw and wrench.

Step 4   Get the ceiling mount bracket. Put cables into the tube, <u>starting with the 9-pin alarm I/O (take the male part off to obtain smaller size)</u>**.**
Have all connectors come out the tube from cable outlet near the top of the bracket.

Step 5   Fasten the camera module (sub-assembly) to the bracket with the supplied screws

Step 6   Mount the bracket onto ceiling and tight the bracket completely.

Caution: Be sure the wall is strong enough to hold the entire device <u>(i.e. housing + camera)</u>

Use External Housing

To operate speed dome camera and maintain all functions in normal in severe temperature conditions, i.e. below -10°C or above 45°C, external housing is required.

Specially designed for mating each other with ease, this speed dome camera has a companion housing for such extreme outdoor environment, in options of ceiling and wall mounting configuration, as shown by the pictures on below.

Wall mount

262
∅152
∅219
202.5

Ceiling mount (Option)

300
262
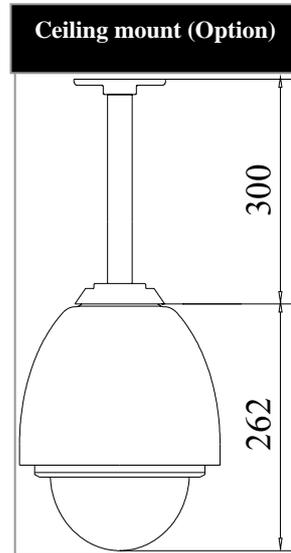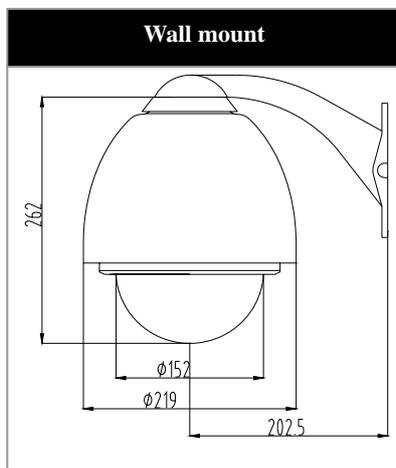
Start Installation

Step 1: Connect Microphone/speaker.

Step 2: Connect security devices into digital inputs/output.

Step 3: Use 5C2V coaxial cable to connect TV/monitor.

Step 4: Use RJ-45 UTP cable to connect network equipment.

Step 5: Plug-in powers of all optional connected devices.

Step 6: Plug-in power of IP speed dome camera.

Step 7: Confirm power indicator is on.

Step 8: Start-up PC to start application software installation.

Install Software

Start CD Software Installation

Before Installation: Insert the CD attached in the package to CD-ROM reader in your computer, system will start its auto-execution procedure.

Software Installation Sequence
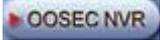
Click [OOSEC NVR] to enter NVR multi-camera software installation sequence.

Click [English] to enter English Installation sequence.

System is detecting user's PC, please wait.
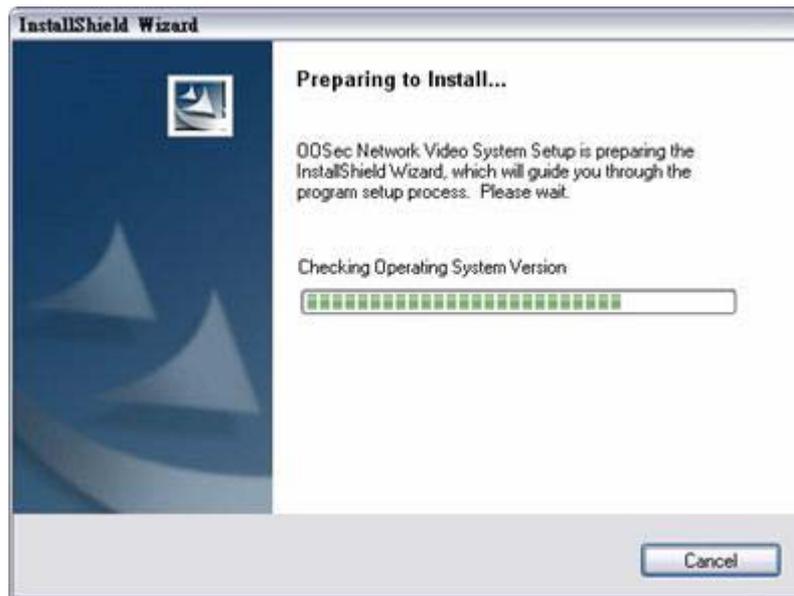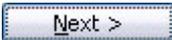
Welcome Page: Click [Next >] to enter next setup procedure.

Read Me & Intellectual Property Announcement: User needs to click "I accept the terms in the license agreement" to enter next step of setup procedure or the setup sequence will not proceed. Click [Next >] **to proceed.**

Save-path: User defines save path of the execution file. Click ![Next >] **to proceed.**

Check: Check setup details are correct. Click ![Install] **to proceed.**

Installing: System setup is proceeding, please wait.

Installation Complete: System installation sequence is complete.   Click
 to exit.

InstallShield Wizard Completed

The InstallShield Wizard has successfully installed Oosec Network Video System. Click Finish to exit the wizard.
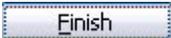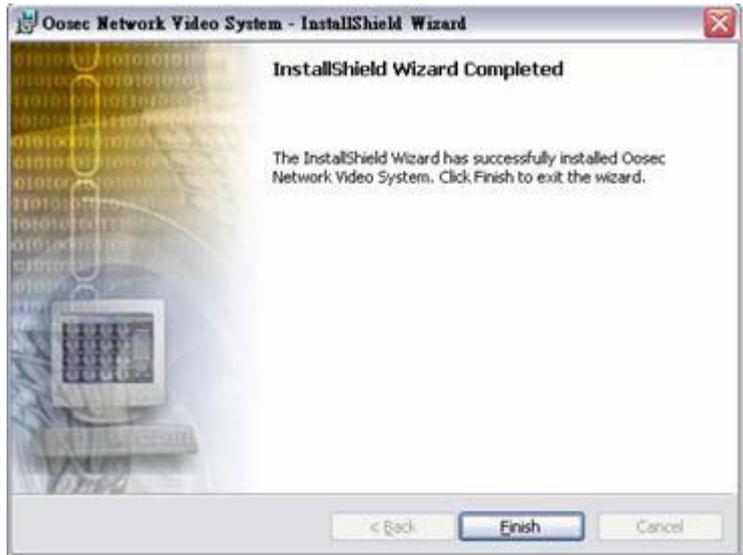
IP Address Setup

     User can write IP address onto Product either by IE, IP Installer or multi-port application software.

Remark: 1. Product default IP address is "192.168.1.99" and default password is Mac address (0013dcXXXXXX) shown on the package and bottom of the camera.
        2. User needs to revise PC's IP at 192.168.1.XXX before setup new IP address on camera

Please follow procedures listed below to change default values on personal computer

Hardware connection

     Prepare a crossover UTP cable to connect directly with PC (192.168.1.XXX) or a standard parallel UTP cable and insert it onto swich/hub or IP sharing (if LAN MASK is same with product).

Network and Internet Connections
    Before IP Installer setup sequence, user needs to adjust Internet Connection.
        Click " Start" → "Control Panel" → "Network and Internet Connections"
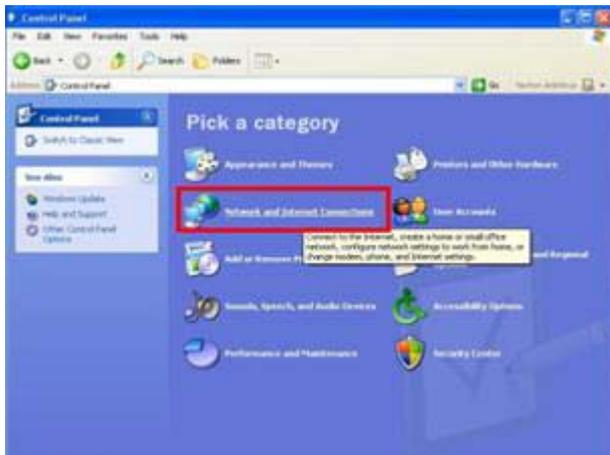
        Click "Network Connections"
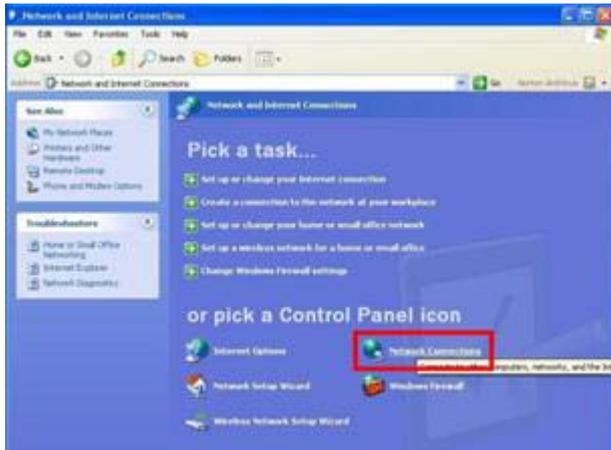
Double click your network (Local Area Connection)

Click "Properties" to enter IP address setup.

Double click "Internet Protocol (TCP/IP)

Tick "Use the following IP address" then type IP (I):192.168.1.99, and for Subnet mask is 255.255.255.0

Click "OK" icon to finish network connections setup for user's PC and video server are in the same subnet.   User can setup IE security for remote view.

Network Security Setup

Security/Trusted Sites Setup

When first time to login video server via Internet Explorer, user needs to do security adjustment to view video images.

Sequence: Click "Start"→"Control Panel"→"Network and Internet Connections" →"Internet Options" →"Security" → "Internet" → "Custom level".
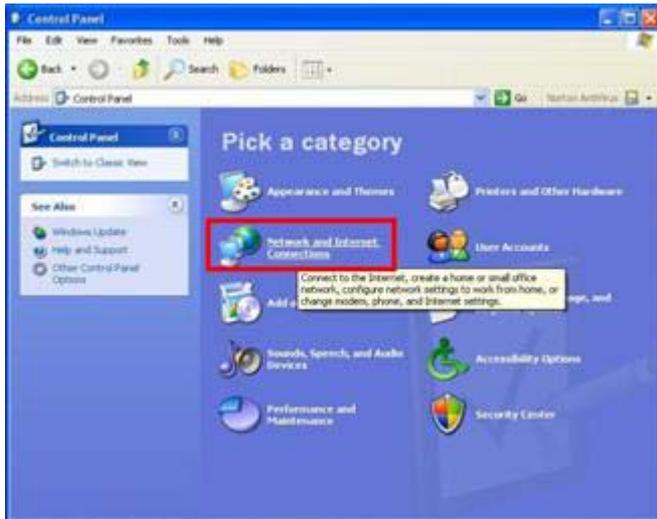
Click "Internet Options"
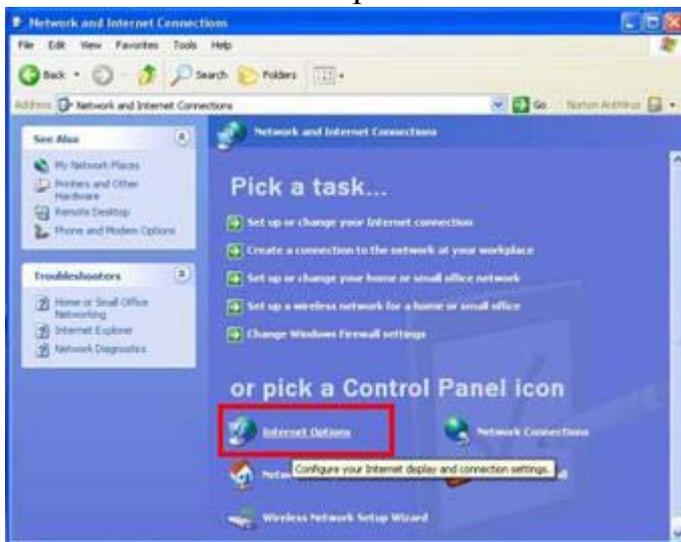
Click "Trusted Sites" and then click "Sites" to type wishful IP address for IP camera/video server to ensure IE browser will not block the IP address.

Type wishful IP address for IP camera/video server and DO NOT click "Require server verification (https) for all sites in this zone.

Window shows IP address is typed.
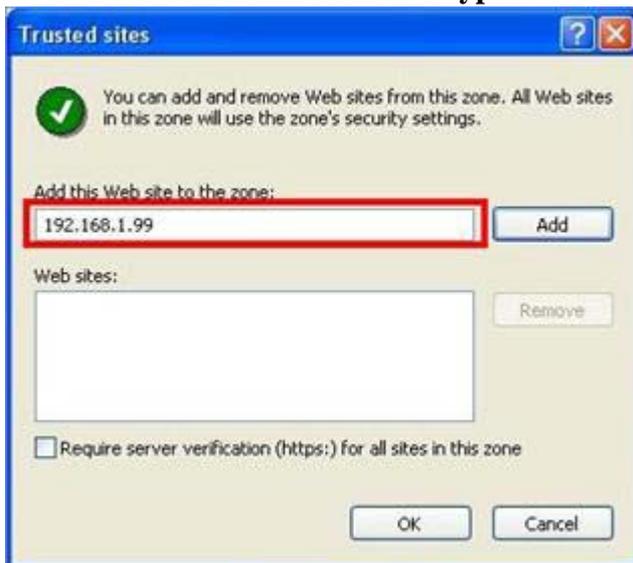
Type wishful IP address and Web site will show in the window, click "OK" button to save data.
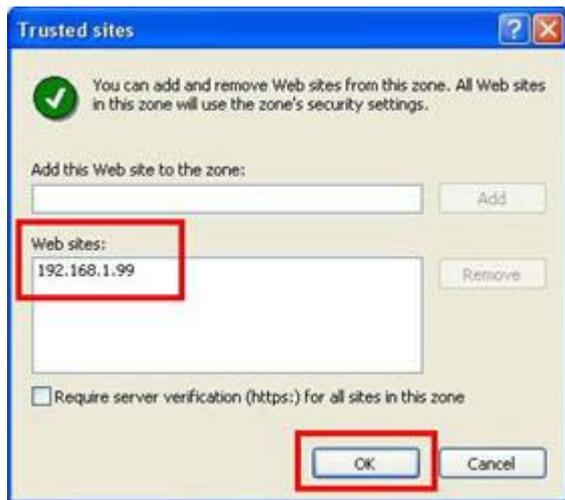
IE Login

User's PC must be equipped with IE 6.0 or later version.

Login Authentication

After having typed correct IP address (default: 192.168.1.99), system will pop-up a verification window which needs user to type correct username and password to login IE real-time video images.

Remark: Please type "root" for user's account and MAC address (0013dcXXXXXX) of this IP camera/video server (MAC is shown on the bottom of product and the surface of the pack)
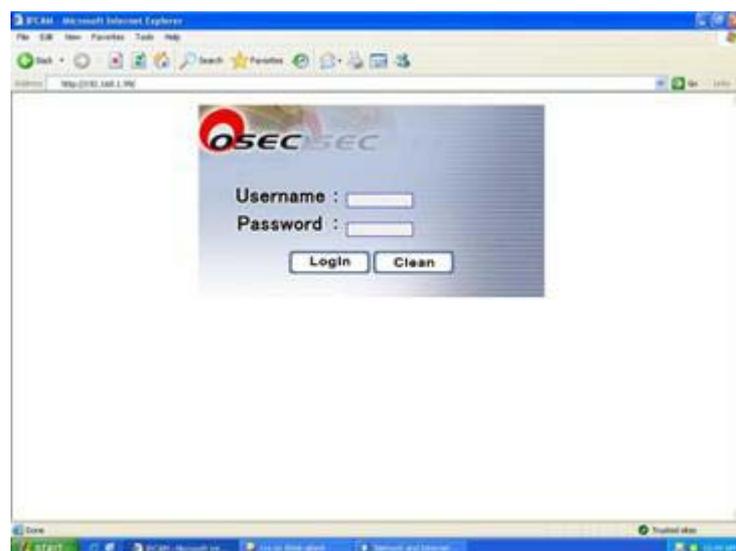
System will ask user to install ActiveX, click **to install ActiveX onto PC to view images.   User needs to wait for dialogue window popup patiently.**

After downloading ActiveX, click **to view real-time images.**

IE

IE Main Page

There are three major blocks on IE main page which include setup icons, real-time video, and pan-tilt-zoom control panel.

Setup Icons: Web server setup functions of this camera on the left.

Real-time Video: This window includes real-time video images, functions of snapshot, microphone, speaker, DI indicator, DO, and control buttons.

Pan-tilt-zoom: This section includes pan-tilt-zoom, speed, preset location, and other command controls.

Real-time Video Images

1. **System shows real-time videos, and on-screen-display clock.**

2. **: Click it to save selected picture onto your computer.**
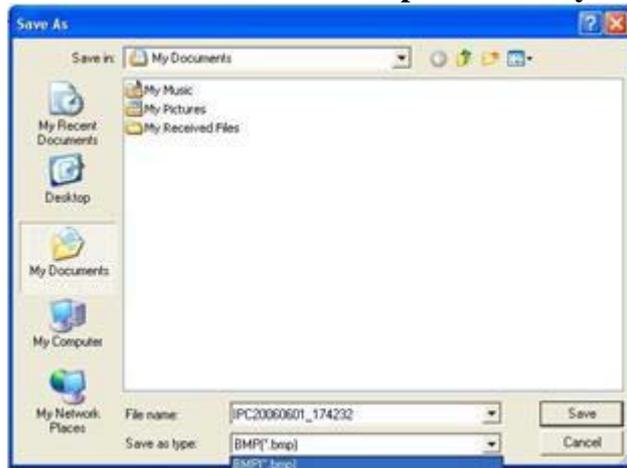
3. /**: Click to activate or deactivate on-site microphone (default: off).**

4. /**: Click to activate or deactivate on-site speaker (default: off)..**

: Click it to capture real-time video images on your computer.   You need to assign wishful save-path onto your computer.   System provides *.AVI file and self recording file format for user to choose.
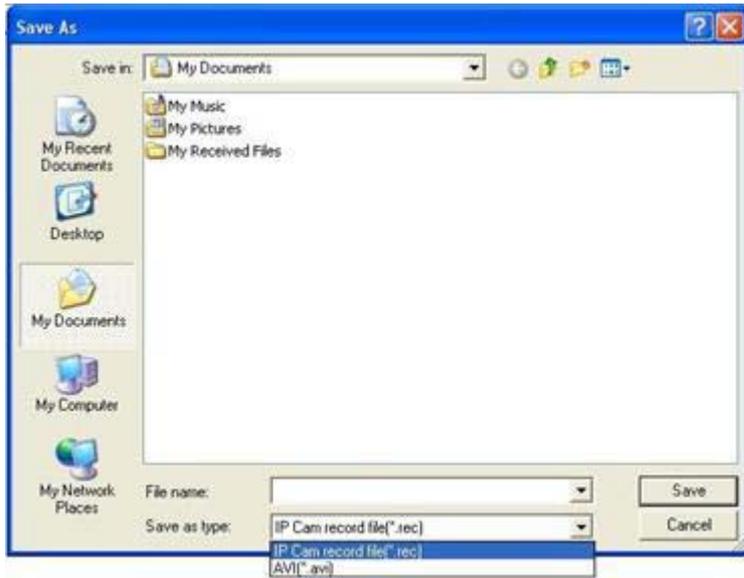
5. **DI indicators:** indicates no DI message which indicates DI alarm is triggered. indicates off and indicates message triggered.

6. **DO:** indicates high-volt output and indicates low-volt output. User clicks DO button once manually to activate DO alarm and click once to deactivate DO.

7. **IE Playback:** Move mouse to real-time video on IE and click right key of the mouse, it will come up with a window, move mouse to connect and click left key once. Real-time display will be off. Click right key again and system will come up with a window. Click Load on left key of the mouse to retrieve recorded data.
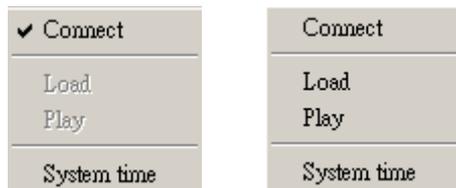
Pan-tilt-zoom Control Panel

Control direction and zoom in/out: device up down left right home zoom-in zoom-out

 Go to preset location   See details of PTZ setup

 Pan-tilt speed control, 1: the slowest ; 10: the fastest

Curise: Click for preset locations cruise.

Auto Pan: Click for pan curise

Stop: Click to stop "cruise" or "auto pan" function.

Setup

Home	Back to IE main videos
System	Device system setup
Video	Video function setup
Network	Device network setup
User	User's account setup
PTZ	Pan-tilt-zoom setup
Event	Event triggered setup
E-mail	Email account setup
Log	Log inquiries

System
System time setup, synchronized with NTP, and default values reset.
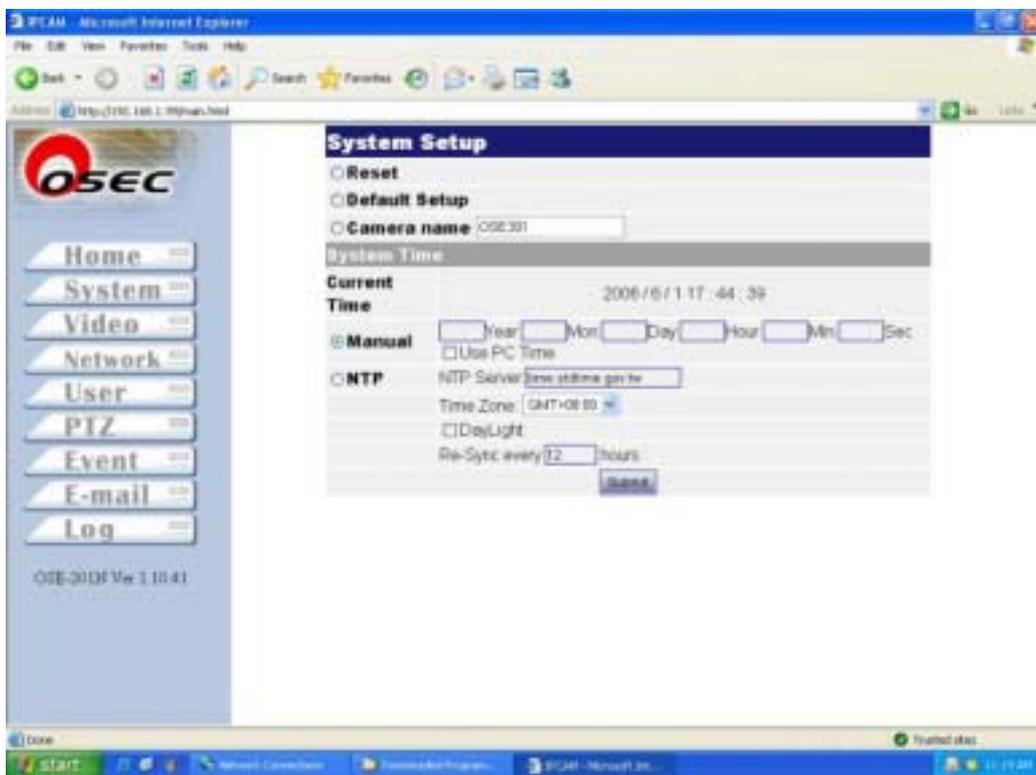
● **System Setup**

   Reset: Click to reboot system.

   Default Setup: Click to return to default manufacturer's values.

   Camera Name: Type wishful IE title for this camera

● **System Time**

   Current Time: Display current time of this camera.

   Manual: Manually reset wishful time setup.

   Use PC Time: Click to synchronize current time with your computer.

   NTP : Select your time zone, click to active Day Light, IP of NTP server.

   Re-Sync: Time period to synchronize with NTP server.

● **Click Submit to save data.**
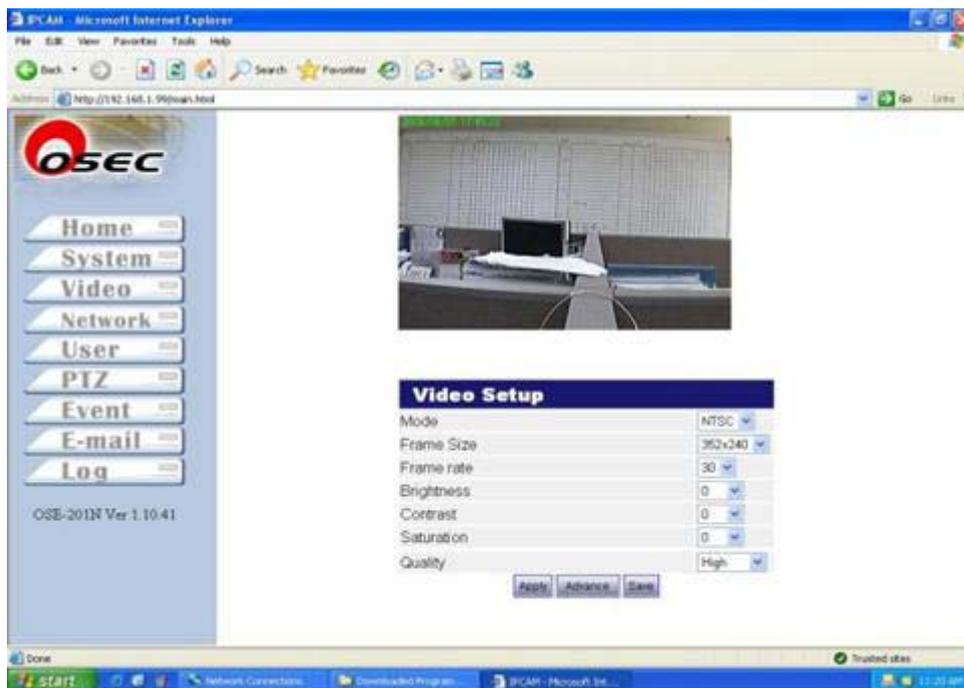
   Video

Mode   : Select NTSC or PAL to fit into your video format in your country (See Appendix D)

Frame Size   Video resolution setup

   NTSC: (QCIF) 176X120, 320X240, and (CIF) 352X240

   PAL: (QCIF) 176X144, 320X240, and (CIF) 352X288

Frame Rate   System support different frame rates for user to define.

> NTSC: 1,2,3,…..,30
>
> PAL   1,2,3,……,25

Brightness   Video brightness range from -10 - +10, default: 0

Contrast   Video contrast range from -10 - +10, default: 0

Saturation   Video saturation range from -10 - +10, default: 0

Quality   Video quality range for "High", "Medium", and "Low"

Click   Apply   onto device (not permanently save) and click   Save   to save onto device.

Remark: Manufacturer does not recommend user to "Advance" video setup.

Network
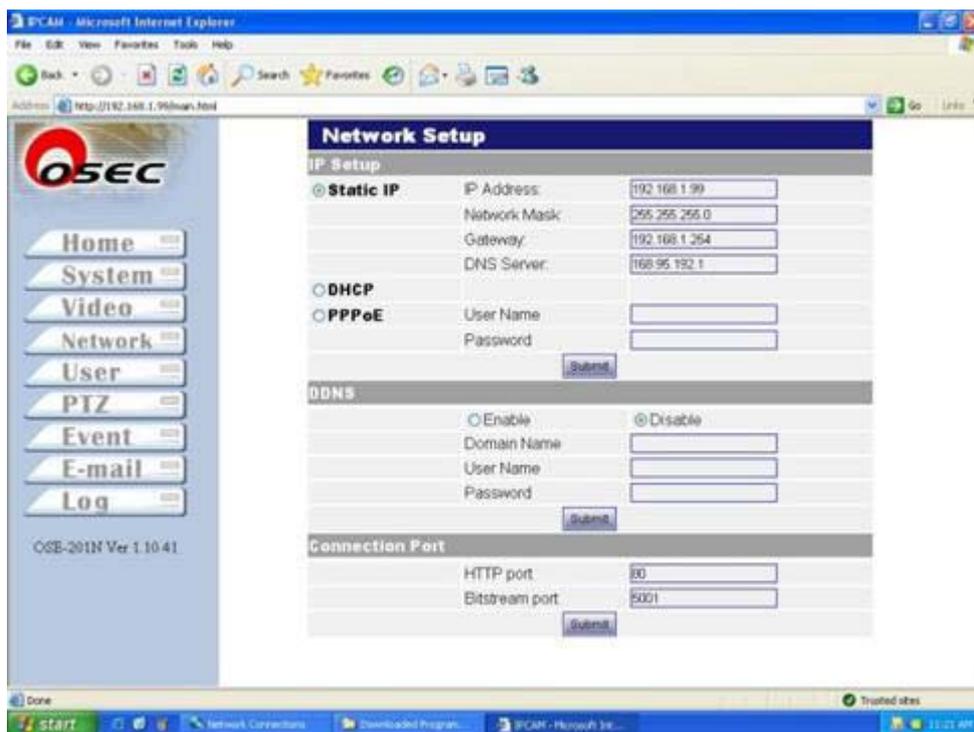
DHCP   : DHCP assigns IP automatically (See Remark1)

Static IP   : If you use a fixed IP by ISP provider or for LAN, then input your wishful IP onto device. Please contact your ISP provider for more details of IP address, Network Mask, Gateway, and DNS server address.

PPPoE   : If you're using PPPoE for Internet connection, input your user account and password provided by your ISP service company.(See Remark2)

    DDNS   **: If you're using domain name instead of fixed IP address and for PPPoE connection, click "Enable" first, then type domain name, user name, and password to login device.**

    Connection Port

        HTTP Port   **: Default HTTP port is 80.**

        Bit-stream port   **: Default video stream is 5001**

Manufacturer does not recommend user to change default value unless has sufficient knowledge of networking setup.   You may contact your MIS or ISP provider for more details of network setup.

- **Click** [Submit] **and click "Submit" to save data.**

    Remark 1: DHCP (Dynamic Host Configuration Protocol) allows devices to connect to a network and be automatically assigned an IP address.

    Remark 2: PPPoE PPP over Ethernet provides the ability to connect a network of hosts over a simple bridging access device to a remote Access Concentrator (Server).

    Remark 3: DDNS (Dynamic Domain Name Server) is a service that maps Internet domain names to IP addresses. DDNS serves a similar purpose to DNS: DDNS allows anyone hosting a Web or FTP server to advertise a public name to prospective users.   Unlike DNS that only works with static IP addresses, DDNS works with dynamic IP addresses, such as those assigned by an ISP or other DHCP server. DDNS is popular with home network, who typically receive dynamic, frequently-changing IP addresses from their service provider. To use DDNS, one simply signs up with a provider and installs network software on their host to monitor its IP address

    User
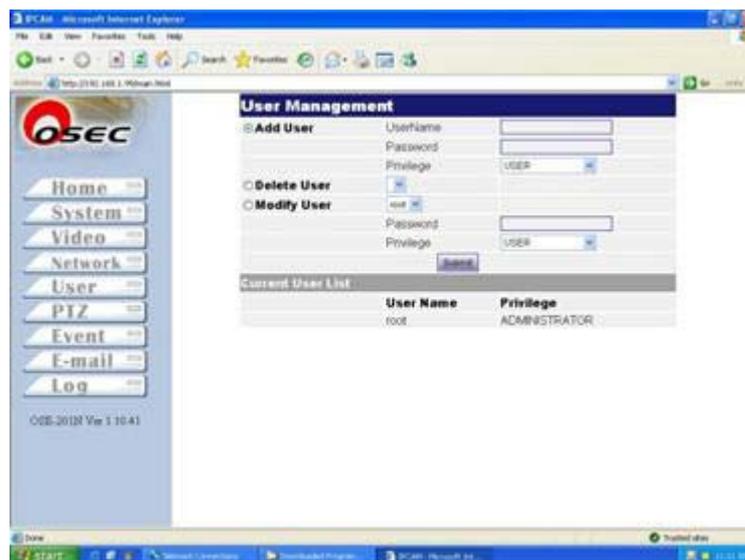
    User Management   **: System allows up to 10 user accounts (2 user privileges) to remote view this camera.**

Add User : Add new user account, password, and privilege.   System supports up to 10 users.

Modify User : Modify current user's account and his/her privilege.

Delete User : Delete user's account.

Click Submit to save onto device.

Current User List : Display user account and his/her privilege.

There are two levels of privilege can be setup for the user.

● **Administrator: View and setup functions manipulate.**

● **User   IE browser real-time view only.**

PTZ

PTZ Setup
User define" mode, user needs to setup manually.

● User define command Setup depending upon user's command requirements.
Define No.(1 - 5): Setup command number
Define Name: Define name of wishful command
Command: Setup command

Click [Save] to save data.

● Perset : Preset location setup
Preset No: Camera provides up to 32 locations for user to define.
Preset Name: Give a title for this preset location.

Click to [Save] to save data.

● Auto Pan Setup : System provides auto-pan function for camera rotating automatically.
● Dwell : Dwell time for one preset location. System provides 1, 5, 10, and 30 seconds selections.
Click [Pan Start] to activate, click [Pan End] to deactivate.
Preset List Complete list of whole preset locations

PTZ Test : This window is to a test zone to ensure all the control functions are normal.

● This window provides Up, Down, Left, Right, Zoom in, Zoom out, default location, Auto Pan, Cruise, and Stop.

[Up] up

[Down] down

[Left] left

[Right] right

[Home] location

 optical zoom-in

 optical zoom-out
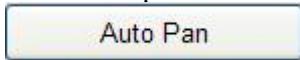
 Auto pan function
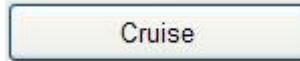
 Preset locations auto cruise

 Stop pan-tilt-zoom function

 Click to wishful preset location

 Speed control of pan-tilt for 1 indicates the slowest and 10is the fastest

 Define No.(1 - 5): User's defined command will show on IE Main.

Event
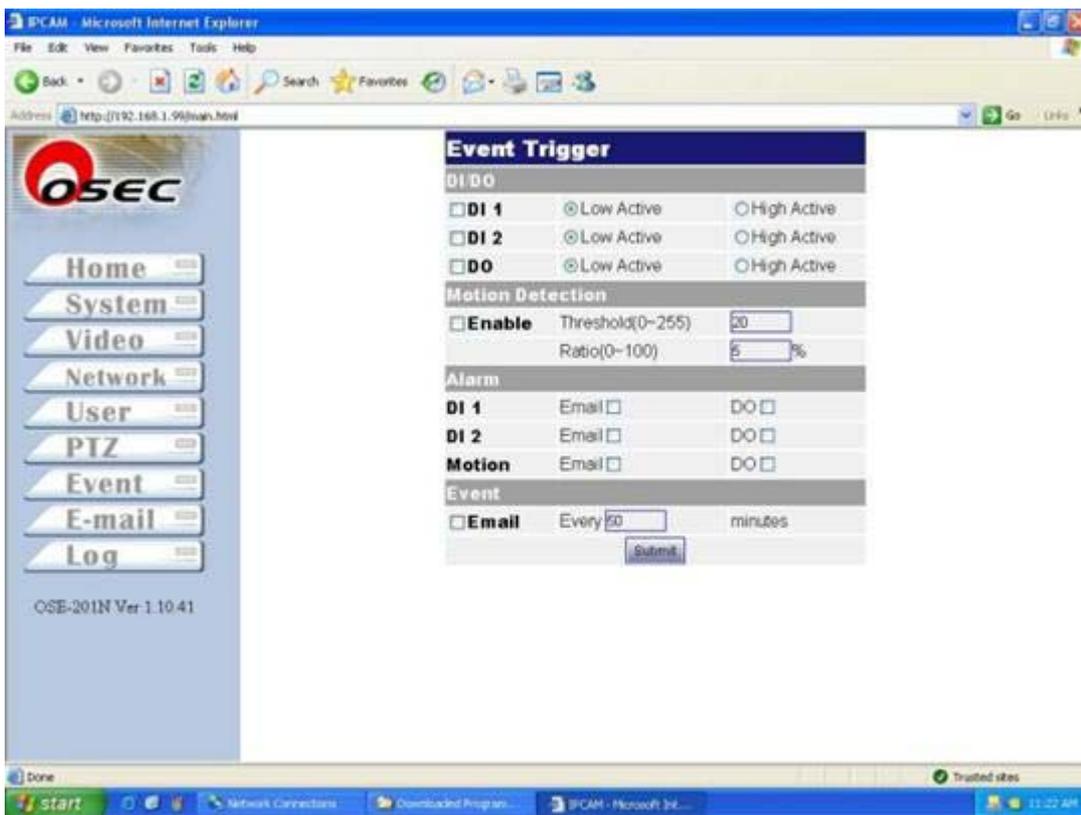
DI/DO

User defines "high volt" or "low volt" triggered signal for digital-input sensors for DI1 and DI2 ; defines "high volt" or "low volt" triggered signal for digital output.

Motion Detection

User defines two variables to setup motion detection for real-time videos.

Alarm

User can define sequence steps while event is triggered.   These sequences include DO and email (attached one snapshot per second).

Event

It defines time period to send event-triggered email.

Click [Submit] to save input data.

Email

Email Setup

Mail Server   : SMTP server account setup

User Name   : User's name account setup

Password   : User's password setup

Sender Email   : Sender's email account setup

Receiver Email   : Receivers' email account setup

CC   : Carbon copy of multi-receiver divided by ";"

Subject   : Subject of email message

Email after DHCP or PPPoE Dialed: User can send email to user after DHCP or PPPoE gets a new IP

address for user can logon to the camera.

Click Submit **to save input data.**

Log

System offers user to review details of system operating records.
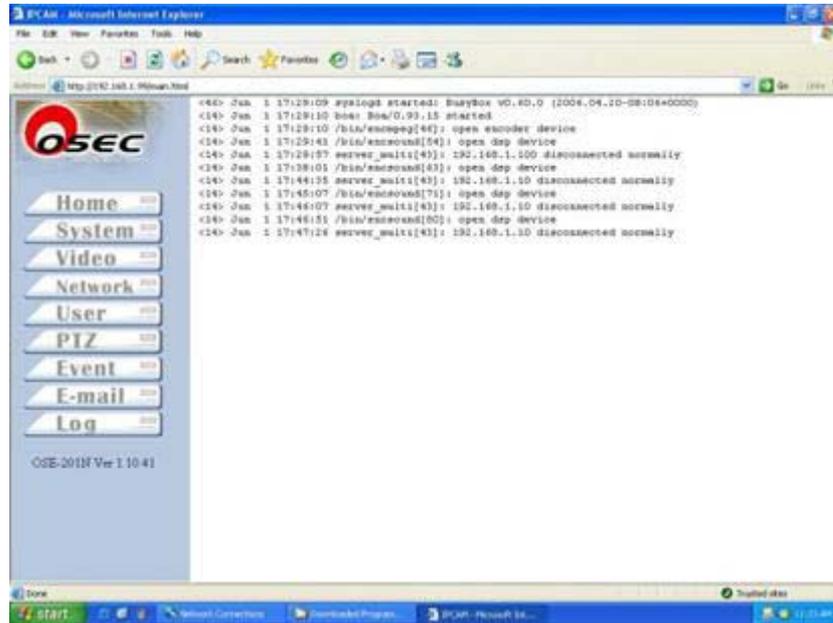
IP Installer

IP Installer can assist user locating wishful IP camera/video server and type appropriate IP address onto product both in fastest and easiest way.

Search: User can click **to get all the products in the same LAN subnet.   Result will be shown on the right table listed below.**
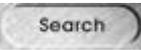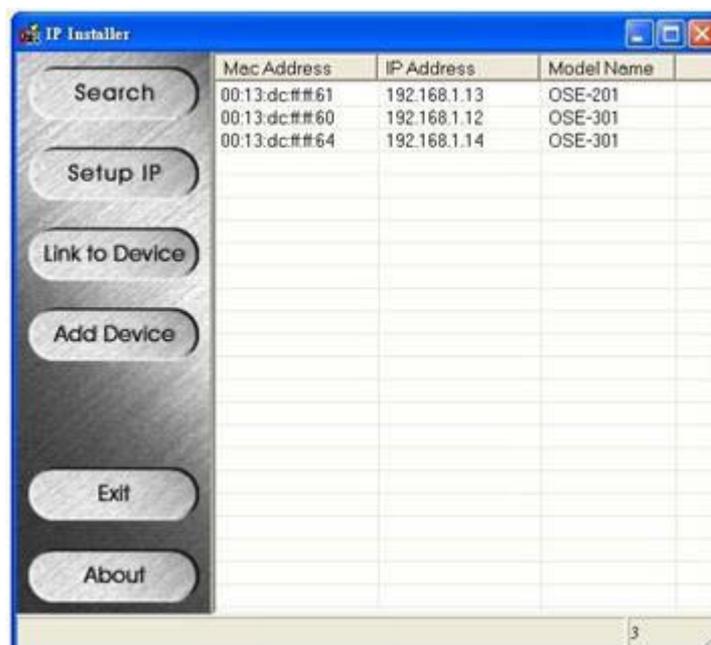
Setup IP: 1. Select one device listed on the right, and click [Setup IP] **to enter.**
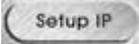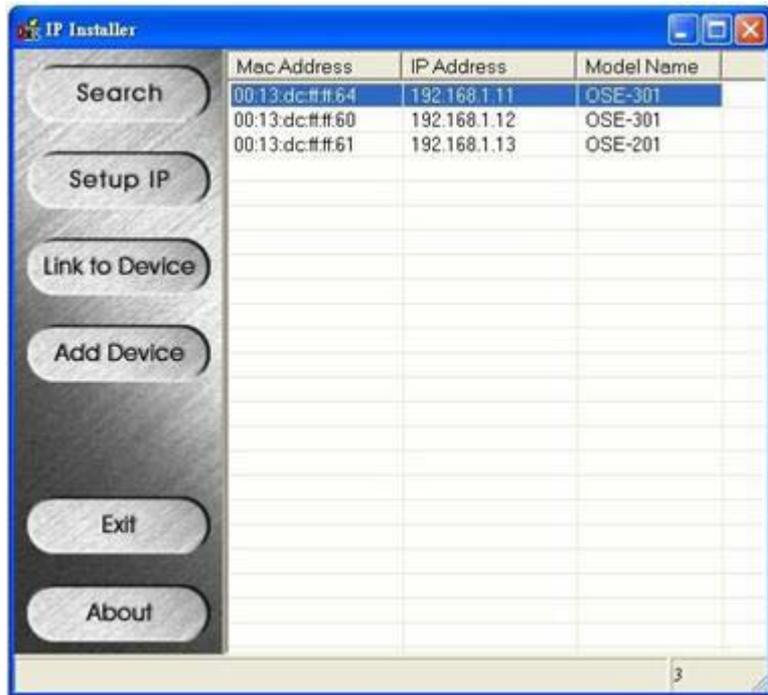
2. System will popup a window, type wishful IP address onto device, click [OK] **, and system write correct IP onto device.**
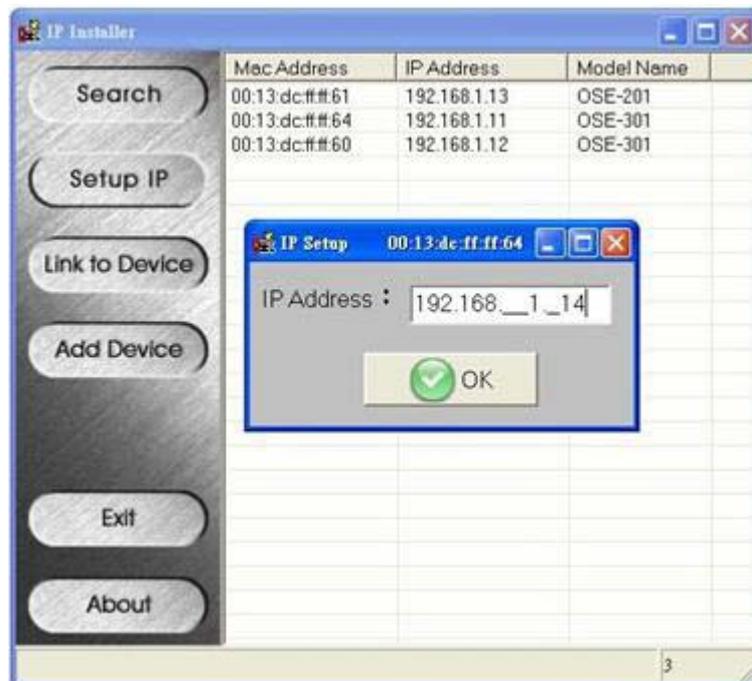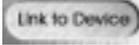
Link to Deice: Click **to view real-time video and confirm new IP address has successfully written onto device. As mentioned in the previous page, a verification window will popup to ask to type username (default: root) and password (default: device MAC address shown on the bottom of device).**

Add Device: If you want to login other IP camera/video server which not locates in the same LAN or device on the Internet. Click **to login. Type IP address and click** **to add.**
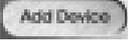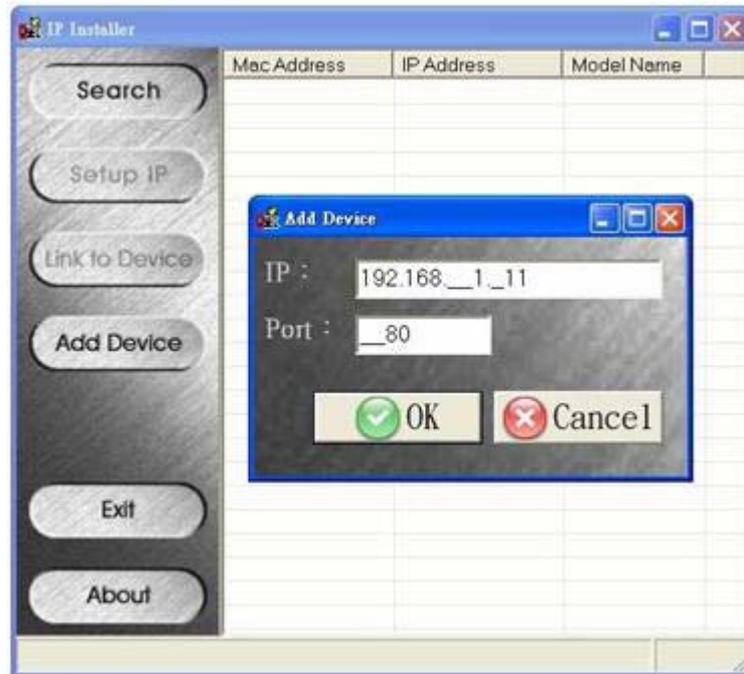
Exit: Click **to exit IP Installer.**

About: Click **to view manufacturer information.**

Appendix A DDNS Service

    I.   How to use DDNS

- If user gets IP address from DHCP or dynamic IP address given from ISP provider of XDSL, DDNS account is required to view video images.

- There're some websites offering free DDNS account, yet, some websites offer DDNS service with service charge.　Each account must be unique that cannot repeat with others

- When application is complete, DDNS website will detect user's IP or manually type IP address manually.　When DDNS account writes onto video server/IP camera and connect to DDNS website, DDNS will detect IP address and correspond to DDNS account automatically.

    II.   Example: DDNS

- Suppose DDNS website is TWSAFE.dyndns.org

- DHCP assigns IP address 220.132.206.9 to video server

- Connect to DDNS website and it will auto-detect or manually update correspondent　IP address: TWSAFE.dyndns.org= 220.132.206.9

start → Run…
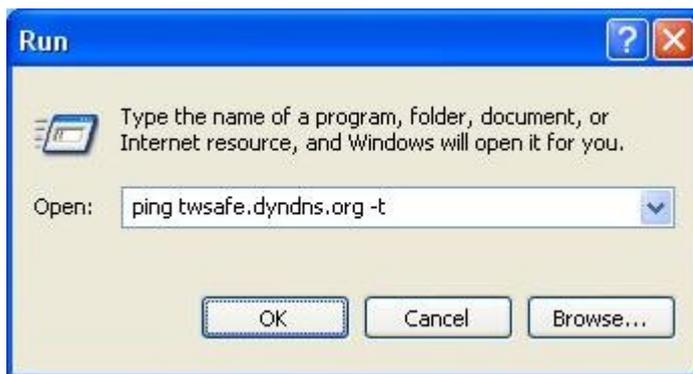
▲ Type: ping TWSAFE.dyndns.org –t

If system shows "Pinging TWSAFE.dyndns.org [220.132.206.9] with 32 bytes of data:

       Reply from 220.132.206.9: bytes=32 time=1ms TTL=255

It means DDNS has updated IP address successfully corresponding

   TWSAFE.dyndns.org = 220.132.206.9

- If video server/IP camera reconnects to network, another new IP address will be assigned, please follow the II steps listed above again to correspond DDNS.

2. How to Apply DDNS Account

http://www.dyndns.com/account/create.html offers free DDNS account. User can apply a free domain account from here.
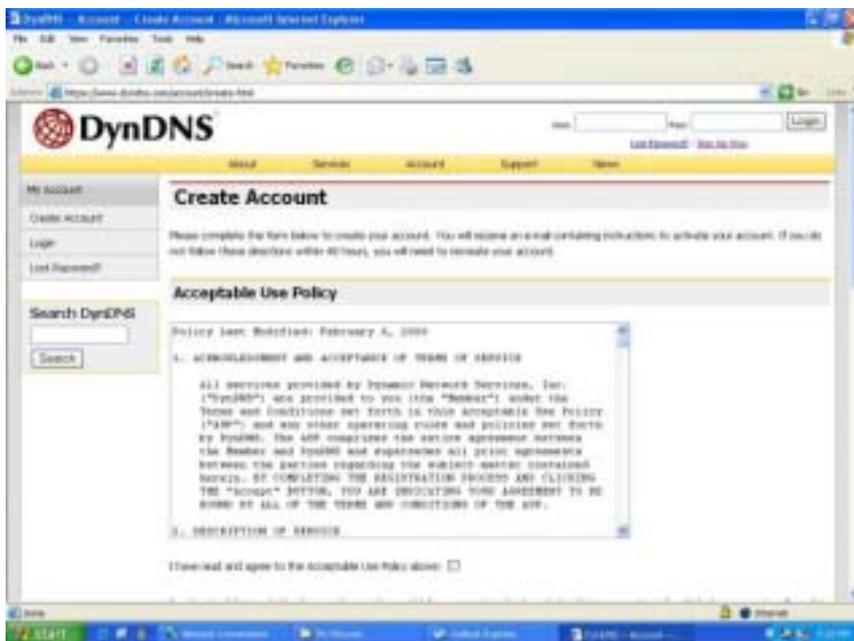
Acceptable Use Policy

- ■ User applies account with no repeated account with others, for example, TWSAFE.tw

- ■ Type personal data.

Username

Username: twsafe

Your username will be used to login to your account and make changes.

E-mail Address

E-mail Address: alanshih@twsafe.net   Confirm E-mail Address: alanshih@twsafe.net

The e-mail address you enter must be valid. Instructions to activate your account will be sent to the e-mail address provided. You must keep this address current. Any accounts with invalid e-mail addresses are subject to removal without warning. We do not sell our account information to anyone. Read more about our privacy policy.

Password

Password: ••••••••   Confirm Password: ••••••••

The password you enter will be used to access your account. It must be more than 5 characters and cannot be the same as your username. Do not choose a password that is a common word, or can otherwise be easily guessed.

■　Click ⌈ Create Account ⌉ after completion.

Mailing Lists

DynDNS maintains a number of mailing lists designed to keep our users informed about product announcements, client development, our company newsletter, and our system status. Please use the checkboxes below to alter your subscription preference. Your subscription preference may be changed at any time through the account settings page.

Mailing List	Subscribe
Announce	☐
system-status	☐

Optional Information

How did you hear about us: From a friend ▼   Details: [   ]

Providing this information will help us to better understand our customers, and tailor future offerings more accurately to your needs. Thanks for your help!

⌈ Create Account ⌉

Account Completed

User will receive a confirmation email from dnydns.org.   User needs

to click the address to confirm account.

Account Confirmed

■ Logon to http://www.dyndns.com/account/login.html   and click Login
on the left.   Type account and password and click [Login]

■ http://www.dyndns.com/account/services/hosts/dyndns/ and click Hostname, then type wishful hostname (system will detect user's IP automatically), and click Add Host

■ Hostname Created

■ When IP address changes, DDNS http://www.dyndns.org will handshake new IP address. User also can change IP address manually.

Modify Dynamic DNS ibtek.dyndns.org

IP in Database/DNS:	220.132.206.9
Last Updated:	Wed Nov 2 22:34:47 2006
New IP Address:	220.132.206.9 This is the IP address that your browser is reporting and may or may not be the same IP address currently in DNS.
Enable Wildcard:	☑
Mail Exchanger (optional):	☐ Backup MX?
	[Modify Host] [Delete Host] [Reset Form]

Appendix B Intellectual Property Right

TRADEMARKS

Oosec, a total subsidiary brand name under TWSAFE Inc., and TWSAFE are registered trademarks, and are used under license. All other trademarks are the property of their respective owners.

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Web: www.oosec.com

Appendix C Limited Warranty

HARDWARE & SOFTWARE LIMITED WARRANTY

TWSAFE CORP.. (TWSAFE), warrants to the original purchaser ("Purchaser") i.e. distributor or reseller of an IP surveillance product ("Product") that the Product will be free from flaws in material or workmanship for ONE year from the date of purchase. If a Product fails during the Warranty Period due to a defect in material or workmanship, TWSAFE as its sole responsibility and Purchaser's sole and exclusive remedy will, at its opinion, either repair or replace the Product with the same or later version that performs substantially the same function as the one being replaced. The Limited Warranty is contingent upon proper use of the Product and does not cover any Product that has been damaged by misuse, accident, neglect, disaster, improper installation, improper test, or abuse nor by any Product has been altered, modified, or replaced by anyone other than TWSAFE.

THIS IS A LIMITED WARRANTY AND IT IS THE ONLY WARRANTY MADE BY TWSAFE. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATIONS, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

Any Product requiring service during Warranty period should be returned to TWSAFE in accordance with the "Return Material Authorization" process set forth in documentation for that Product and in the current TWSAFE Products and Services Guide.

EXCEPT FOR THE EXCLUSIVE REMEDY SET FORTH ABOVE, IN NO EVENT SHALL IP SURVEILLANCE PRODUCT HAVE ANY LIABILITY TO PURCHASE ARE ANY THIRD PARTY FOR ANY CLAIM, LOSS OF DAMAGE OF ANY KIND, EVEN IF IP SURVEILLANCE PRODUCT HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE OR INDIRECT DAMAGES, ARISING OUT OF OR IN CONNECTION WITH THE PERFORMANCE, USE OF OR ANY INABILITY TO USE ANY PRODUCT OR ANY DATA, SOFTWARE OR EQUIPMENT RELATED THERETO OR USED IN CONNECTION THEREWITH OR INFRINGMENT OF ANY PATENT, COPYRIGHT, TRADEMARK OR ANY OTHER INTELLECTUAL PROPERTY RIGHT OF ANY THIRD PARTY. IN NO EVENT SHALL IP SURVEILLANCE PRODUCT'S LIABILITY FOR DAMAGES, WHETHER ARISING OUT OF CONTRACT, NEGLIENECE, WARRANTY OR INFRIGEMENT OF ANY INTELLECTUAL PROPERTY RIGHT, EXCEED THE PURCAHSE PAID BY PURCHASER FOR THE PRODUCT.

Appendix D   PAL/NTSC Country/Region List

PAL:

ABU DHABI, AFGHANISTAN, ALBANIA, ALGERIA, ANDORRA, ANGOLA, ARGENTINA, ASCENSION ISLAND, AUSTRALIA, AUSTRIA, AZORES, BAHRAIN, BANGLADESH, BELGIUM, BOSNIA HERZEGOVINIA, BOTSWANA, BRAZIL, BRUNEI, BRUNEI, CAMEROON, CANARY ISLANDS, CAPE VERDE, CAYMEN ISLANDS, CHINA, CHRISTMAS ISLAND, COOK ISLAND, CROATIA, CYPRUS, CYPRUS (TURKISH), CZECH REPUBLIC (CT1, CT2 & PRIMA), DENMARK, DUBAI, EASTER ISLAND, EGYPT, ERITREA, ETHIOPIA, FALKLAND ISLANDS, FAROE ISLANDS, FIJI, FINLAND, GAMBIA, GAZA & WEST BANK, GERMANY, GHANA, GILBRALTAR, GREECE, GREENLAND, GUINEA, GUINEA-BISSAU, HOLLAND, HONG KONG, ICELAND, INDIA, INDONESIA, IRELAND, ISRAEL, ITALY, JORDAN, KENYA, KIRIBATI, KUWAIT, LAOS, LATVIA, LEBANON, LESOTHO, LIBERIA, LIECHTENSTEIN, LITHUANIA, LUXEMBOURG, MACAU, MACEDONIA, MADEIRA, MALAWI, MALAYSIA, MALDIVES, MALTA, MONACO, MONTENEGRO, MOZAMBIQUE, NAMIBIA, NEPAL, NETHERLANDS, NEW ZEALAND, NIGERIA, NORFOLK ISLAND, NORWAY, OMAN, PAKISTAN, PAPUA NEW GUINEA, PARGUAY, POLAND, PORTUGAL, QATAR, ROMANIA, SARDINIA, SAUDI ARABIA, SERBIA, SEYCHELLES, SIERRA LEONE, SINGAPORE, SLOVAKIA REPUBLIC, SLOVENIA, SOLOMON ISLANDS, SOMALIA, SOUTH AFRICA, SPAIN, SRI LANKA, SUDAN, SWAZILAND, SWEDEN, SWITZERLAND, SYRIA, TANZANIA, THAILAND, TONGA, TRISTIAN DA CUNAH, TURKEY, UGANDA, UNITED ARAB EMIRATES, UNITED KINGDOM, URUGUAY, VANUATU, VATICAN, YEMEN, YUGOSLAVIA, ZAMBIA, ZANZIBAR, ZIMBABWE

NTSC:

ALASKA, AMERICAN SAMOA, ANTIGUA, ANTILLES (DUTCH), ARUBA, BAHAMAS, BARBADOS, BARBUDA, BELIZE, BERMUDA, BOLIVIA, BRITISH VIRGIN ISLANDS, BURMA, CANADA, CAYMEN ISLANDS, CHILE, COLUMBIA, COSTA RICA, CUBA, CURACAO, DIEGO GARCIA, DOMINICA, DOMINICAN REPUBLIC, ECUADOR, EL SALVADOR, GALAPAGOS ISLAND, GREENLAND, GRENADA, GUAM, GUATEMALA, GUYANA (REPUBLIC), HAITI, HAWAII, HONDURAS, JAMAICA, JAPAN, JOHNSTON ISLANDS, KOREA SOUTH, LEEWARD ISLANDS, MARIANA ISLANDS, MARSHALL ISLANDS, MEXICO, MICRONESIA, MIDWAY ISLANDS, MONTSERRAT, MYANMAR, NICARAGUA, OKINAWA, PALAU, PANAMA, PERU, PHILIPPINES, PUERTO RICO, SAMOA, ST KITTS AND NEVIS, ST LUCIA, ST VINCENT, SURINAM, TAIWAN, TRINIDAD & TOBAGO, UNITED STATES OF AMERICA, VENEAUELA, VIETNAM, VIRGIN ISLANDS