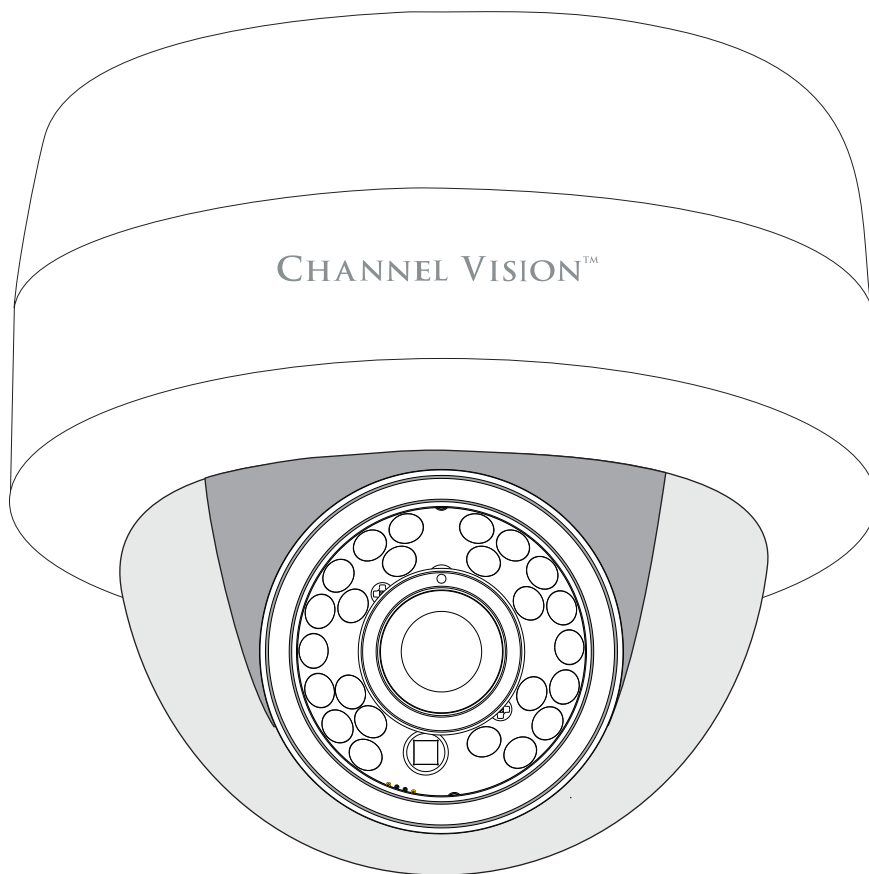




6565

Dome Color Megapixel IP Camera w/IR Illuminators



CHANNEL VISION™

• Intelligent Entertainment • Infrastructure • Security Solutions

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Models 6565

The 6565 is a 2 Megapixel dome IP camera.

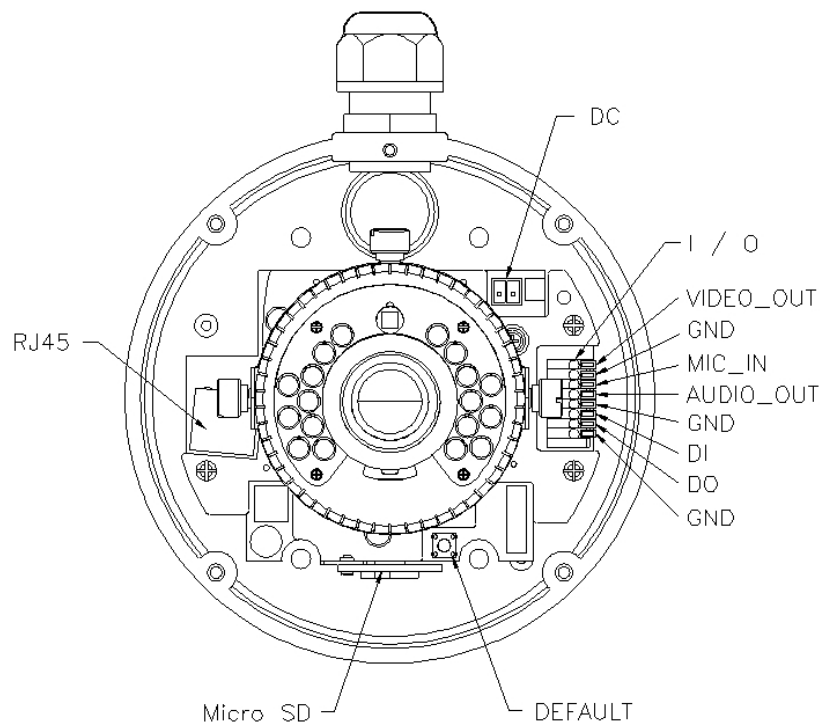
- Built-in web server allows users to view high quality, real-time video with Internet Explorer browser.
- Uses H.264, MJPEG and MPEG4 codecs
- Live video can be recorded to a computer and played back remotely, as well as viewed from many mobile phones and other devices.
- Designed for large commercial projects with 100's of cameras or a single family house requiring a camera at the front door.

6565 Features:

Channel Vision's 6565 Vandal Proof IP Dome offers superior image quality with a 2 megapixel CMOS sensor and has the ability to capture images up to 1080p (1920 x 1080 pixels).

With H.264 compression, less bandwidth and storage space are used, while delivering full resolution at max frame rate with faster speeds over the internet.

The 6564 also features event triggered SD card recording, as well as 18 IR LED for a viewing distance of 50 feet in total darkness. Monitoring can be done anywhere an internet connection is available even from a 3G Smart-phone



Safety Warnings

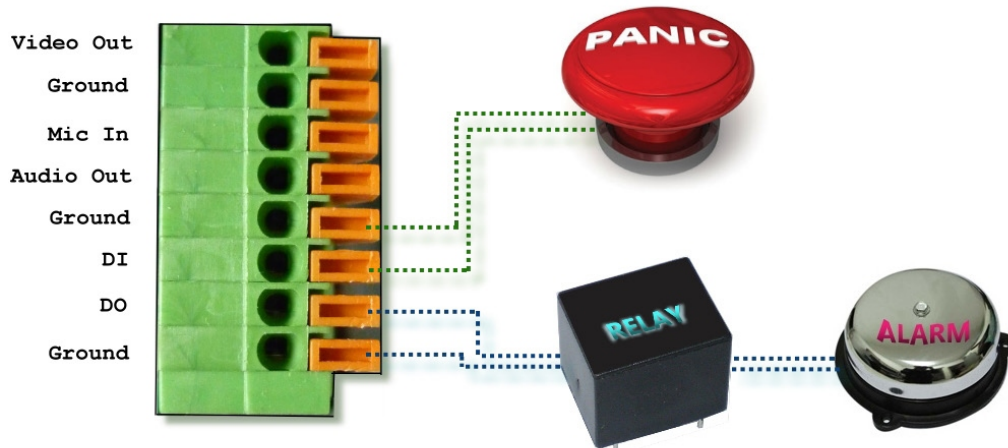
IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions for future reference.
3. Heed all warnings.
4. Follow all instructions.
5. Clean only with a dry cloth.
6. Install in accordance with these instructions.
- 7 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
8. Do not defeat the safety purpose of the polarized-type plug. A polarized plug has two blades with one wider than the other. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point of exit from the apparatus.
10. Only use attachments/accessories specified by Channel Vision.
11. Unplug this apparatus during lightning storms or when unused for long periods of time.
12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the inside of the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
13. The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
14. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance accompanying the appliance.
15. Inside of apparatus shall not be exposed to dripping or splashing and objects filled with liquids.

CAUTION: To reduce the risk of electric shock, do not remove the cover (or back). There are no user-serviceable parts inside, refer servicing to qualified service personnel.



I/O Pin Out



1. Digital Input (DI + Ground):

An alarm input for connecting devices that can toggle between an open and closed circuit, for example PIRs, door/window contacts, broken glass detectors, etc. When a signal is received, the state changes and the input becomes active.

2. Relay Output (Ground + DO)

A selectable output for a relay switch, for example LEDs, Sirens, etc.

Normally Open and Normally Closed can be selected via the Internet Explorer ActiveX control under the "I/O Setting" section on the left. (See pages 35, 36 for I/O settings)

3. Audio Output (Audio Out Ground)

An audio output that can be fed into an amplifier

4. Audio Input (Mic In + Ground)

A microphone input that can be used with a standard line level microphone, such as the 5104-Mic.

5. Video Out (Video Out + Ground)

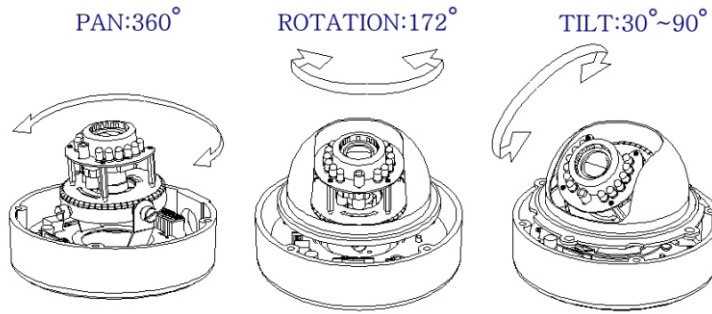
Composite video output, used to adjust the camera. Note: if you do not have network connected, this output will automatically shut off within 24 hours.

PoE (Power Over Ethernet)

Power over Ethernet (PoE) is a technology that integrates power into a standard LAN infrastructure. It enables power to be provided to the network device, such as an IP phone or a network camera, using the same cable that is used for the network connection. The PoE switch eliminates the need for power outlets at the camera locations and enables an easier application of uninterruptible power supplies (UPS) to ensure 24 hours a day, 7 days a week operation. A 802.3af, 15.4W PoE Switch is recommended with 6565.

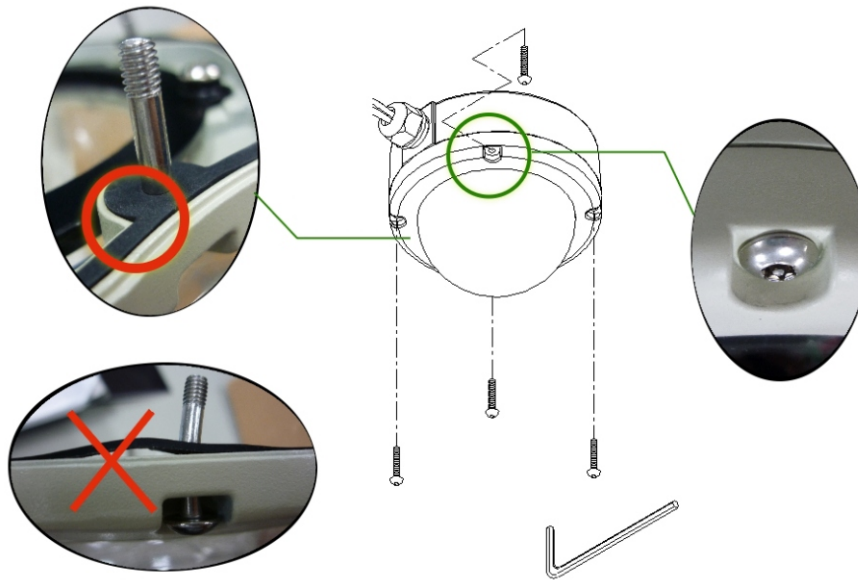
If using a PoE switch that does not meet this specification, full functionality may not be supported.

Camera Mounting

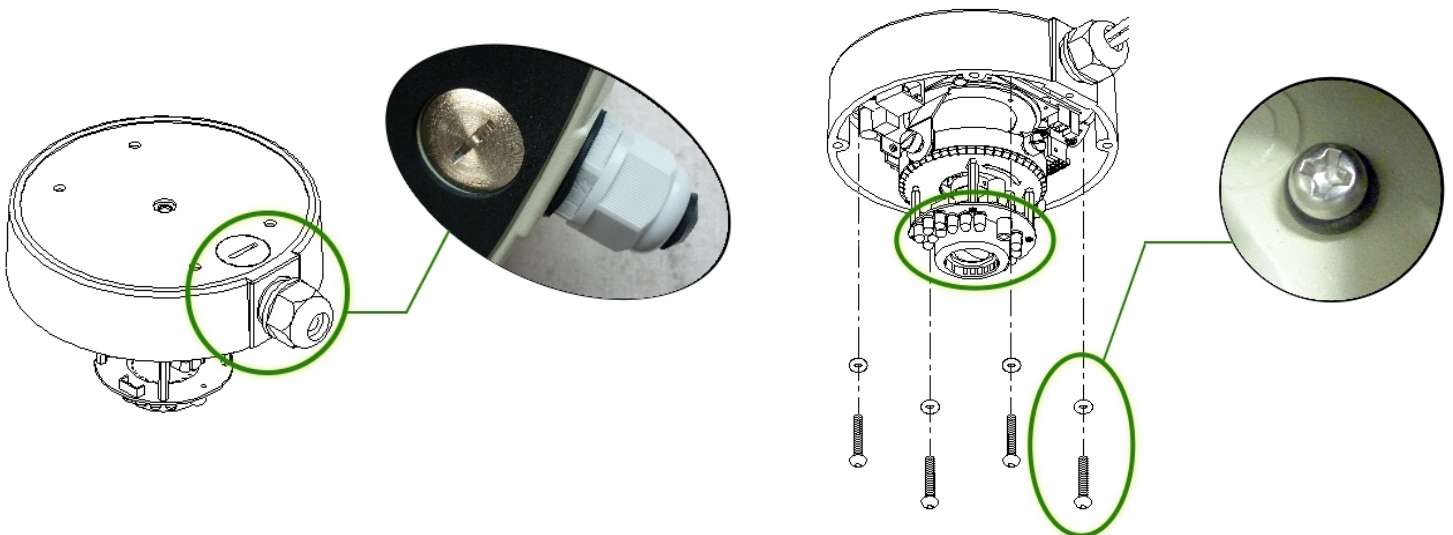


Before you close the dome cover, verify the black rubber gasket is stuck to the inside of the cover completely. If the gasket is uneven, the camera may not be fully waterproof. Tighten all 4 screws on the dome cover to ensure that there is no gap between the lid and base of the camera.

Apply a thin coat of silicon around the gap once the camera is assembled to increase water resistance.



Mount the bottom of the camera housing on a smooth, flat surface. When you mount the camera on a ceiling or wall, use the screws with the rubber o-rings. Without the o-ring, water may get into the camera.

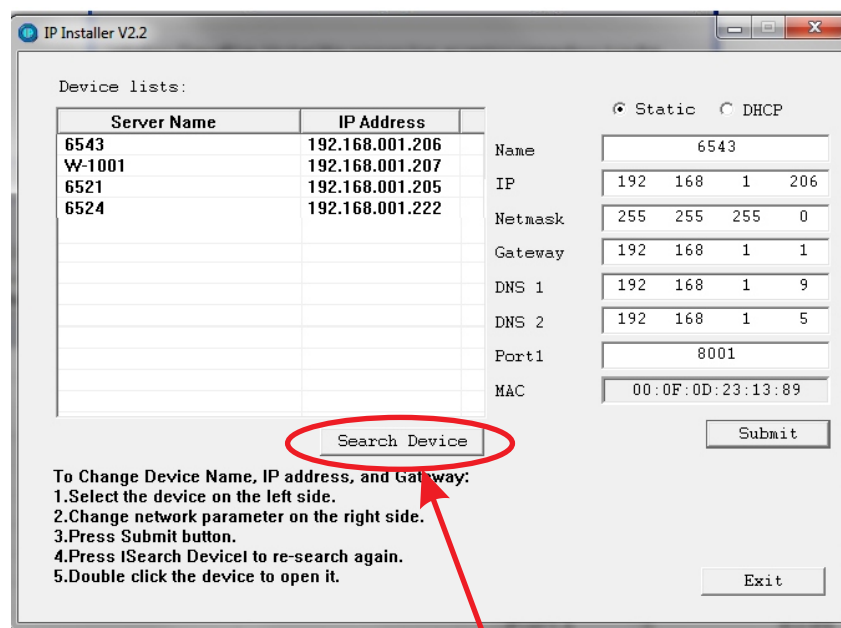


Assigning an IP Address

1. Use the software, "IP Installer" to assign the IP address to your IP Camera You can find "IP Installer" in the supplied CD.
2. Execute IP Installer. This is located on your disk under the folder "Megapixel Camera Network Search Application"
3. If Windows prompts you to unblock IP Installer, you must select "unblock"

There are 3 kinds of IP configuration

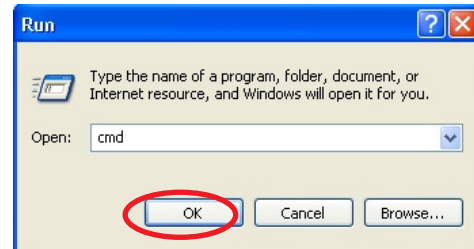
- A. Fixed IP (Public IP or Virtual IP)
- B. DHCP (Dynamic IP)
- C. Dial-up/DSL (PPPoE)



"IP Installer" will search all IP Cameras connected to your LAN network. The user can click "Search Device" to search again.

Assigning an IP Address /cont

1. Click the start icon on your computer
2. Click the 'Run' icon on your computer.
3. Type in 'cmd' and press enter on your keyboard, or press ok.



4. Type in 'ipconfig /all' into the DOS prompt that appears. Press enter.
5. Write down your computer's IP address.

It is important that we do not use the same IP address for our IP Camera.

In the example below, the computer's IP address is 192.168.1.74.

The IP address of the IP Camera must be different than the IP address in the computer.

Each networkable device in your network has an IP address assigned. You need to be sure the IP you choose for your IP camera is not the same as any other device on your network.

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\jjesson>ipconfig /all

Windows IP Configuration

Host Name . . . . . : jjesson
Primary Dns Suffix . . . . . : internal.channelvision.com
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : internal.channelvision.com
                                  internal.channelvision.com
                                  channelvision.com

Ethernet adapter Local Area Connection:

Connection-specific DNS Suffix . : internal.channelvision.com
Description . . . . . : Broadcom NetXtreme 57xx Gigabit Controller
Physical Address. . . . . : 
Dhcp Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
IP Address. . . . . : 192.168.1.74
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.1.1
DHCP Server . . . . . : 192.168.1.9
DNS Servers . . . . . : 192.168.1.9
                          192.168.1.5
Primary WINS Server . . . . . : 192.168.1.9
Lease Obtained. . . . . : Tuesday, September 07, 2010 9:32:05 AM
Lease Expires . . . . . : Wednesday, September 15, 2010 9:32:05 AM
```

Assigning an IP Address /cont

6. Copy/write down the following information from the DOS prompt.

- A. Default Gateway (Example 192.168.1.1)
- B. DNS Server (if 2 servers, use the first one, for example 192.168.1.9)
- C. Subnet Mask (Example 255.255.255.0)

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\jjesson>ipconfig /all

Windows IP Configuration

    Host Name . . . . . : jjesson
    Primary Dns Suffix . . . . . : internal.channelvision.com
    Node Type . . . . . : Hybrid
    IP Routing Enabled. . . . . : No
    WINS Proxy Enabled. . . . . : No
    DNS Suffix Search List. . . . . : internal.channelvision.com
                                      internal.channelvision.com
                                      channelvision.com

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix . : internal.channelvision.com
    Description . . . . . : Broadcom NetXtreme 57xx Gigabit Controller
    Physical Address. . . . . :
    Dhcp Enabled . . . . . : Yes
    Autoconfiguration Enabled . . . . . : Yes
    IP Address. . . . . : 192.168.1.74
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.1
    DHCP Server . . . . . : 192.168.1.9
    DNS Servers . . . . . : 192.168.1.9
                          192.168.1.5
    Primary WINS Server . . . . . : 192.168.1.9
    Lease Obtained. . . . . : Tuesday, September 07, 2010 9:32:05 AM
    Lease Expires . . . . . : Wednesday, September 15, 2010 9:32:05 AM
```

Assigning an IP Address /cont

7. Enter the information you wrote down from step 6 on page 9 into the IP camera network page

A. Default Gateway (Enter this number under “Gateway”)

B. DNS Server (Enter this number under “DNS 1”)

C. Subnet Mask (Enter this number under “Netmask”)

8. Giving the IP Camera a unique IP address.

Assign an IP address to the IP Camera by using the first 3 sets of numbers of your default gateway. A IP address, has 4 sets of numbers, each followed by a period. For example, xxx.xxx.xxx.xxx My default gateway is 192.168.1.1 So, for example, my IP Camera's address will start with 192.168.1.xxx

9. Make sure you use a number different that your computer's IP address.

(Generally between 2-250) This number needs to be out of the range of DHCP. DHCP is assigned with your router, and can be checked by logging into the router.

My computer's IP address is 192.168.1.74. I have used 192.168.1.208 for my IP Camera.

You must choose a number that is different from your computer's IP.

If your IT technician has designated a static internal IP for your IP Camera, use that address.

10. To assign the port, choose a port between 5400-9000, and type it into “Port 1” If a specific port has been designated for your security system, that can also be used, even if the number is not within the range of 5400-9000.

The screenshot shows the 'IP Installer V2.2' window. On the left, a table lists devices: 'Parking Lot' with IP '192.168.001.209' and 'North West Wall' with IP '192.168.001.208'. The 'North West Wall' device is selected. On the right, configuration fields are shown with red circles and arrows pointing to them from text annotations on the right side of the image.

Server Name	IP Address
Parking Lot	192.168.001.209
North West Wall	192.168.001.208

Annotations and field values:

- Static** (selected) / **DHCP** (radio buttons)
- Name**: North West Wall
- IP**: 192 168 1 208 (Fourth number is different than computer)
- Netmask**: 255 255 255 0 (Subnet Mask (same as computer))
- Gateway**: 192 168 1 1 (Default Gateway (same as computer))
- DNS 1**: 192 168 1 5 (DNS Server 1 (same as computer))
- DNS 2**: 192 168 1 9 (DNS Server 2 (same as computer))
- Port1**: 8006 (Port (A port between 8000-8999 is recommended, but any network port can be used))
- MAC**: 00:0F:0D:20:F0:1B

Buttons: Search Device, Submit, Exit.

Instructions at the bottom:

To Change Device Name, IP address, and Gateway:
1. Select the device on the left side.
2. Change network parameter on the right side.
3. Press Submit button.
4. Press [Search Device] to re-search again.
5. Double click the device to open it.

To change numbers, select the appropriate area on IP installer with your mouse, and type in the info.

***Disclaimer: This is an example based on a general network setup.**

All networks do not match these settings exactly, as all networks are different

Connecting To Your Camera

1. Open Internet Explorer. Type the IP address of the IP camera into the browser link window. Also, make sure to type the port at the end of the link.

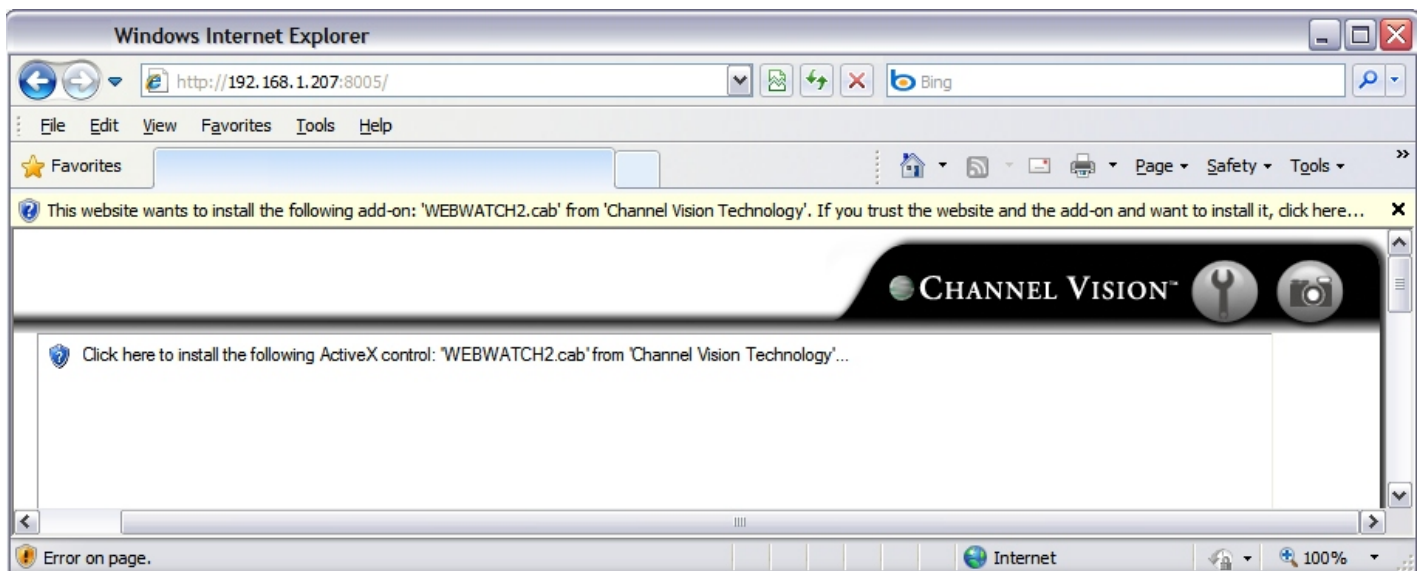
For example, I will type in **http://192.168.1.207:8005**

2. You will be prompted for a username and password.
The default username is **'admin'**
The default password is **'admin'**



Installing The ActiveX Control

1. The first time you connect to the camera via Internet Explorer, it will ask you to install the ActiveX control. Internet Explorer 6, 7, 8, or 9 must be used to run this ActiveX control.



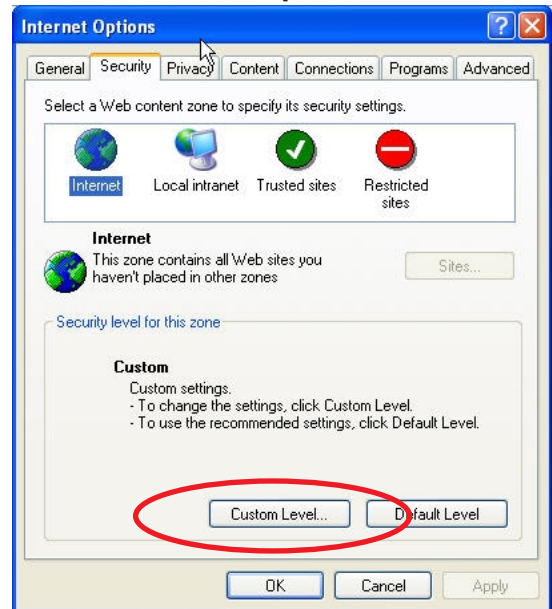
Configuring Internet Explorer

If the installation of the ActiveX control fails, for example the browser page says “done” but you do not see your camera, please check the security settings for your IE browser. Follow the instructions below.

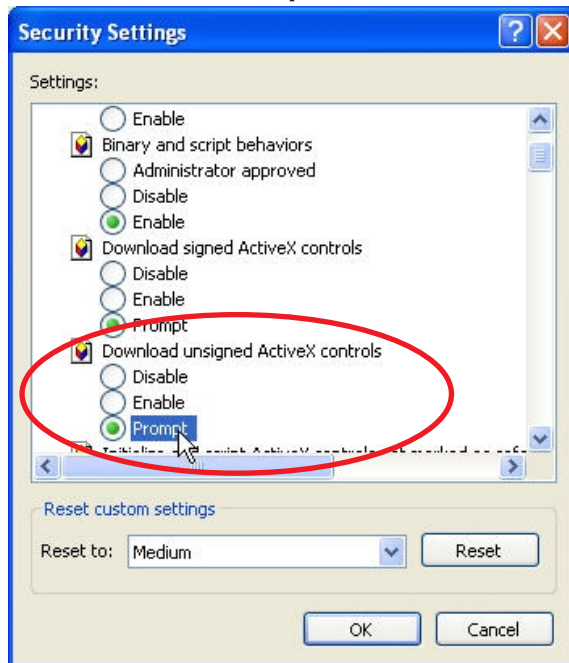
Step 1



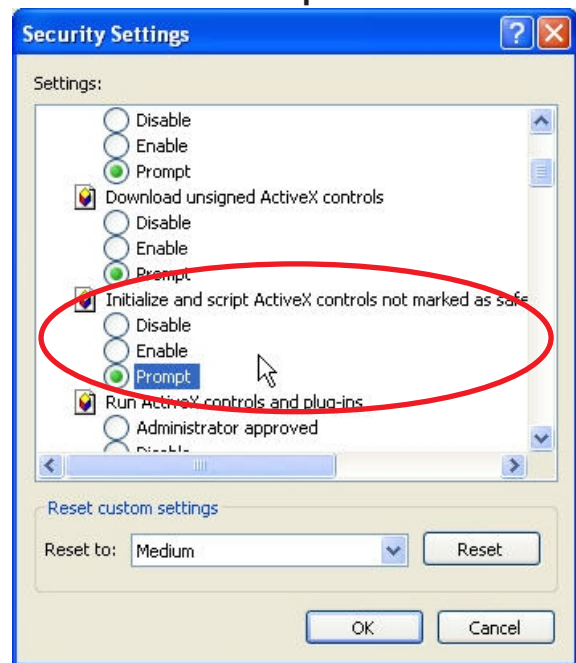
Step 2



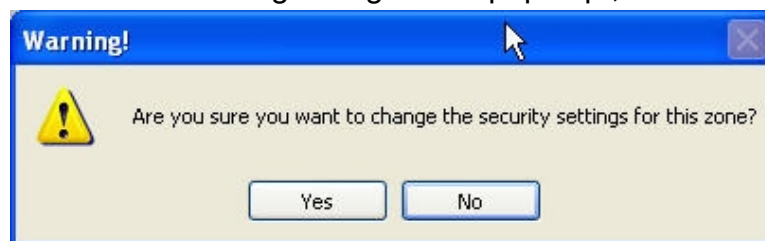
Step 3



Step 4



When the following dialogue box pops up , click “Yes”.



Step 5

Live Viewing

Once you connect to your camera, you will see the following screen.
Below the icons and their functionality are defined.

The screenshot shows the Channel Vision live viewing interface. At the top right, there are two icons: a wrench (Settings) and a camera (Snapshot). Below the main video feed, there is a status bar with the following elements: a timestamp '2010/DEC/17 02:53:41 Size:1600x1200 FPS: 15', a dropdown menu for 'default', a dropdown menu for 'Streaming 1', a 'Chatting:' checkbox, an 'Online Visitor : 1' indicator, and a 'Relay Out:' toggle set to 'OFF'. Red arrows point from text labels to these elements: 'Snapshot' points to the camera icon; 'Settings' points to the wrench icon; 'Controls the selection of the video stream that is being viewed' points to the 'Streaming 1' dropdown; 'Controls the physical size of the streaming video on the browser screen' points to the 'default' dropdown; 'Activates 2-way audio' points to the 'Chatting:' checkbox; 'Shows the number of users connected at any given time' points to the 'Online Visitor : 1' indicator; and 'Activates relay output' points to the 'Relay Out:' toggle. A line from the 'Format: Year/Month/Day/Hour/Minute/Second/ Image Size/Frames Per Second' text points to the timestamp.

Snapshot

Settings

CHANNEL VISION™

2010/DEC/17 02:53:41 Size:1600x1200 FPS: 15

default Streaming 1 Chatting: Online Visitor : 1 Relay Out: ON OFF

Controls the selection of the video stream that is being viewed

Controls the physical size of the streaming video on the browser screen

Activates 2-way audio

Shows the number of users connected at any given time

Activates relay output

Format: Year/Month/Day/Hour/Minute/Second/ Image Size/Frames Per Second

Live Viewing/cont.

1. This icon opens the settings menu



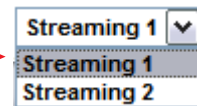
2. This icon takes a snapshot



3. This icon shows system time, video resolution, and video refreshing rate

2010/NOV/25 02:39:04 Size:800x592 FPS: 10

4. The bottom bar has an icon that allows you to select which stream you want to view. Stream 1 is usually the larger, better quality stream. Stream 2 is the smaller stream, generally used for mobile viewing



5. These cameras support 2 way audio.

The bottom bar has an icon that will activate 2 way audio
For 2 way audio to function, you will need a microphone plugged into the computer.

Chatting: ☐

6. The bottom bar has an icon shows how many users are connected to the IP camera.

Online Visitor : 1

7. This icon will control/activate the relay output on the camera wire pigtail. A relay can activate lights, alarms, or anything that uses a contact closure.

Relay Out: ☐ ON ☒ OFF

8. If you double click the video feed, it will make the video full screen.
To change video back to normal mode, press 'Escape' on your keyboard, or double click anywhere in the video feed a second time.

9. If you right click on the video, you have access to several different functions.

A. Snapshot: Takes a snapshot

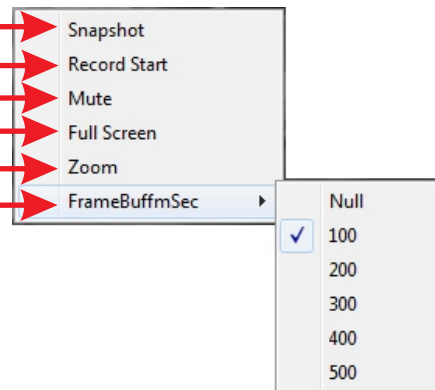
B. Record Start : Records video to your computer

C. Mute: Mutes 2 way audio, if activated

D. Full Screen: Makes the IP camera full screen

E. Zoom: Digital zoom. This is explained below

F. Frame BuffmSec: This changes the frame buffer rate

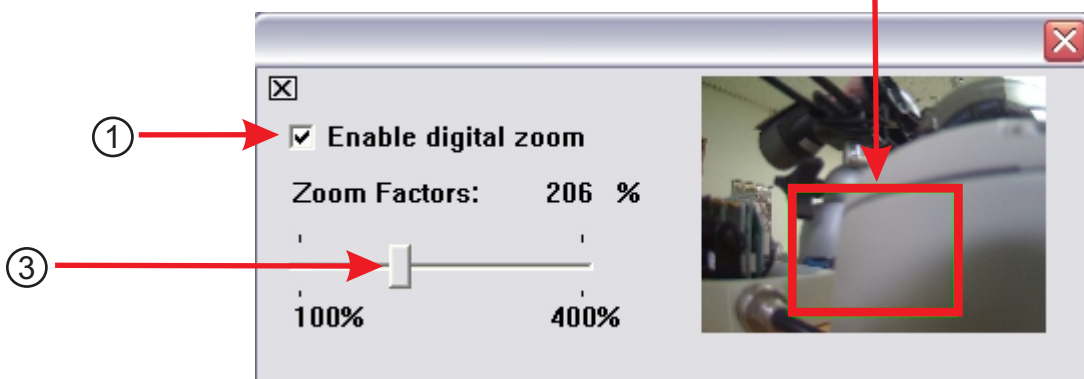


Digital zoom

1. Select "Enable digital zoom"

2. Select the area of the screen you wish to zoom in on

3. Select the zoom level



Configuration

1. Select this icon to enter the settings menu



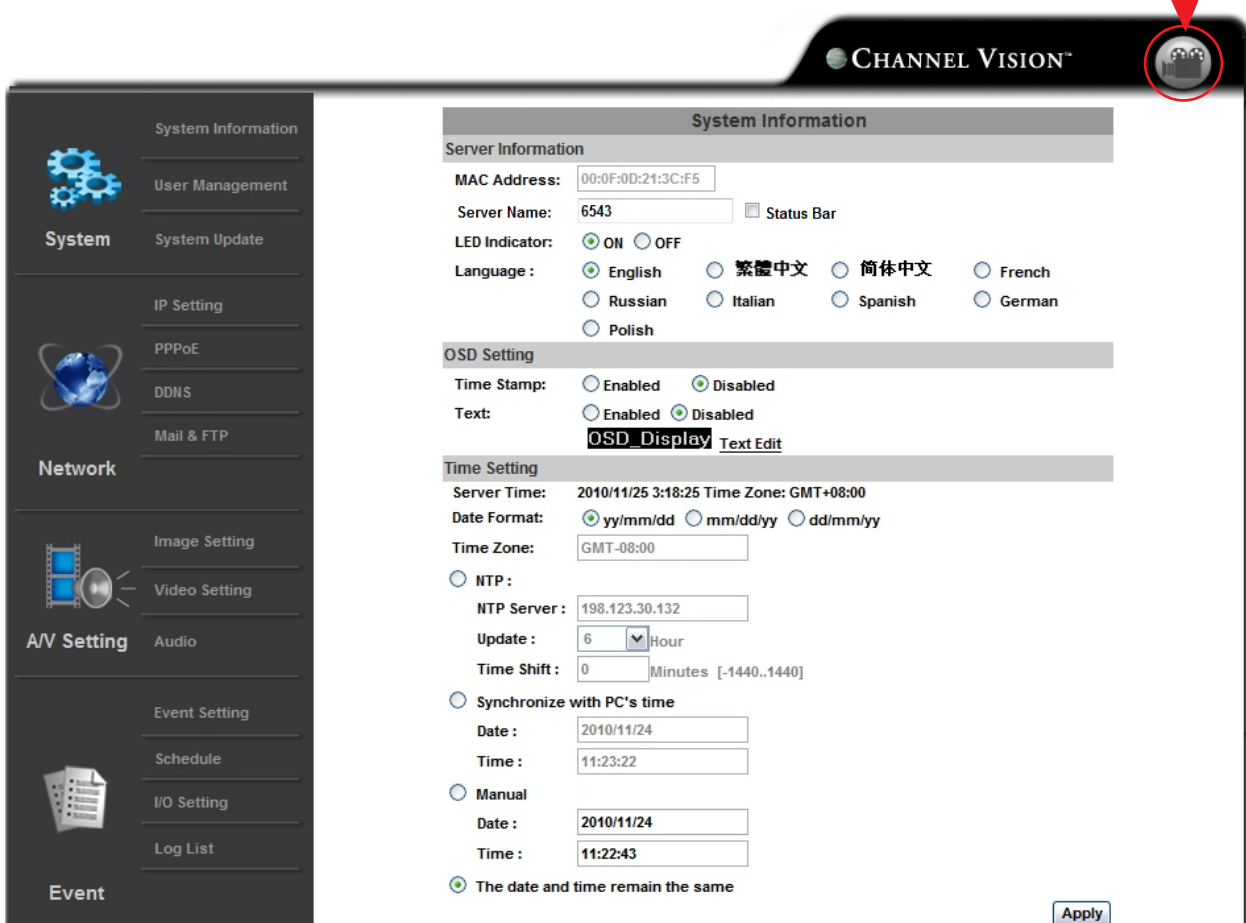
①



2. Select this icon to go back to your live video feed



②



System Configuration

System Information:

Use the number scheme below for a description of each item:

1. **MAC Address:** (Media Access Control) address; This is a unique identifier assigned to IP devices for communication with the network. Your IP camera is pre-set with a MAC address
2. **Server name:** Select to edit the camera name
3. **LED Indicator:** Select On/Off to toggle the blinking LED light in the camera
4. **Language:** Select a language to change the language of the ActiveX interface
5. **Status Bar:** Select On/Off to toggle the information bar (below the main video stream)
6. **Time Stamp:** Select Enabled/Disabled to turn the video timestamp on or off
7. **Text:** Select Enabled/Disabled to specify the name that can be displayed on the top left area of the screen
8. **Server Time:** This shows the current time on your IP camera
9. **Date Format:** Select to choose your desired date format
10. **Time Zone:** This shows your current time zone
11. **NTP:** The Network Time Protocol is a protocol for synchronizing the clocks of computer systems
12. **NTP Server:** If you have a NTP server, input it here
13. **Update:** If using an NTP server, select this drop down menu to choose the update interval
14. **Time Shift:** Time shift is used to compensate for the time it takes to server to process the sync request for your time. This is usually not needed.
15. **Synchronize with PC's time:** Select this to match your computer's clock to your IP camera
16. **Apply:** Select this button to save your changes

System Information

Server Information

① **MAC Address:**

② **Server Name:**

③ **LED Indicator:** ☒ ON ☐ OFF

④ **Language :**

☒ English

☐ 繁體中文

☐ 简体中文

☐ French

☐ Russian

☐ Italian

☐ Spanish

☐ German

☐ Polish

⑤ ☐ **Status Bar**

OSD Setting

⑥ **Time Stamp:** ☐ Enabled ☒ Disabled

⑦ **Text:** ☐ Enabled ☒ Disabled

☒ **OSD_Display**
☐ Text Edit

Time Setting

⑧ **Server Time:** 2010/11/25 3:28:44 Time Zone: GMT+08:00

⑨ **Date Format:** ☒ yy/mm/dd ☐ mm/dd/yy ☐ dd/mm/yy

⑩ **Time Zone:**

⑪ ☐ **NTP :**

⑫ **NTP Server :**

⑬ **Update :** Hour

⑭ **Time Shift :** Minutes [-1440..1440]

⑮ ☐ **Synchronize with PC's time**

Date :

Time :

☐ **Manual**

Date :

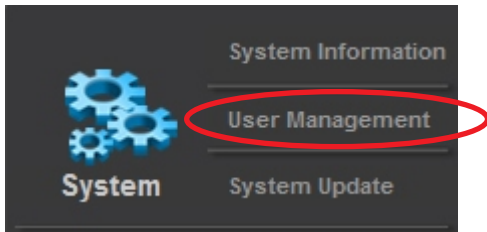
Time :

☒ **The date and time remain the same**

⑯ **Apply**

16

User Management



User management:

This IP camera supports 3 different types of users.

1. Administrator
2. General
3. Anonymous

A screenshot of the 'User Management' web interface. It includes a 'Setting' button, radio buttons for 'YES' and 'NO' (with 'YES' circled in red), an 'Add User' section with 'Username:', 'Password:', and 'Confirm:' fields, and a 'User List' table. The table has columns for 'Username', 'User Group', 'Modify', and 'Remove'. The first row shows 'admin' as the username and 'Administrator' as the user group. The 'Modify' column has an 'Edit' button circled in red. The 'Add/Set' button is also circled in red. Red arrows point from the 'YES' radio button, the 'Edit' button, and the 'Add/Set' button to the text instructions below.

Click "Yes" to allow anonymous user access

Click "Add/Set" to add a user

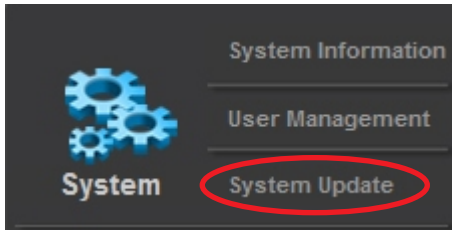
Click "Edit" to modify a user.

When you click edit, the following window will pop up:
(Shown below.)

A screenshot of a 'User_Setting - Windows Internet Explorer' window. The address bar shows 'http://192.168.1.207:8005/muser.html'. The page title is 'User Setup'. It contains fields for 'Username:' (with 'admin' entered), 'Password:', and 'Confirm:'. An 'OK' button is circled in red. A red arrow points from the 'OK' button to the text instruction below.

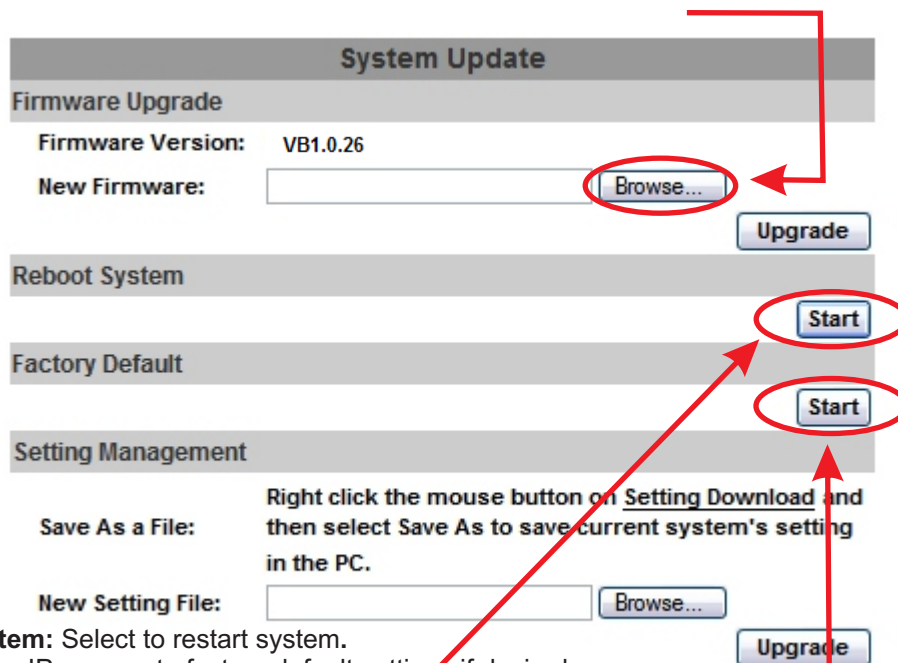
Add the username and password, and click "OK" to save your new user.

System Update



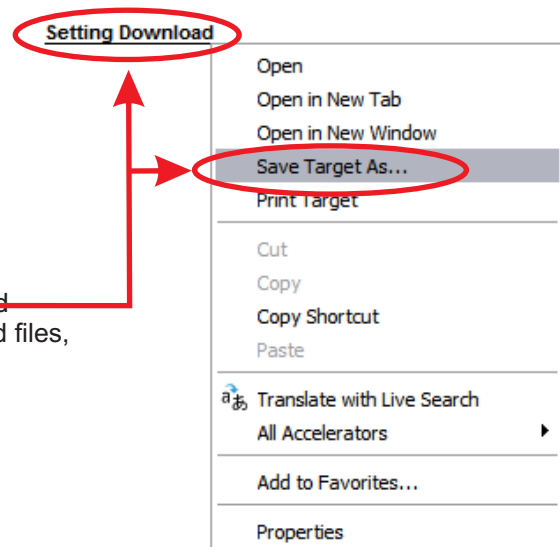
System Update: This menu is used to perform the following functions:

1. **Firmware Update:** Channel Vision will update the firmware from time to time. By registering your IP camera, you have access to all firmware improvements and extended warranty options. How? See the product page on www.channelvision.com. To load new firmware, press "Browse" and select the firmware.bin file.

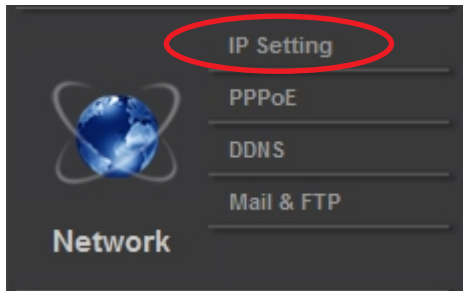


2. **Restart System:** Select to restart system. You can reset the IP camera to factory default ~~settings~~ if desired. If you backup your settings, you can load your backup file where it says "New Setting File"

3. **Settings backup:** You can backup your settings by right clicking your mouse on "Setting Download" and selecting "Save Target As". You may also load previously saved ~~settings~~ files this way. When loading previously saved files, click "Browse" and then "Upgrade"



Network



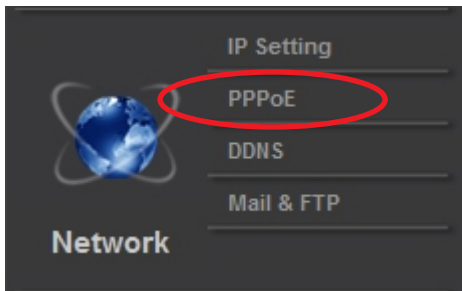
Network Setup/IP Setting: This setting is for the external viewing of camera over the internet. Once set up, you will be able to view this camera from anywhere in the world. This IP camera supports DHCP and Static settings. If you are new to installing an IP camera, use #2 (**Static IP**)

1. **DHCP:** If you use this setting, your IP information will be pulled automatically from your router. This not recommended if you are going to view this camera outside of the building that it resides in.
2. **Static IP:** This is an IP that you manually set. This IP must not be the same as any other device within your network. You must also set default gateway, DNS server, subnet mask, and DNS server. Please refer to page 6 & 7 for instructions on how to obtain these numbers.
3. **Port Assignment:** You can assign different ports for your camera. (Explained below.)
 - A. **Web Page Port:** (This is the port that 99% of installations will use)
A web page port is used to transmit data out of your network. For example, If my external IP address is **http://67.88.12.50**, and my port was 5400, I would put a ":" and the port. The final address would be **http://67.88.12.50:5400**
 - B. **RTSP Transmitting Port:** Port for RTSP stream.
 - C. **RTP start and end port:**
In RTSP mode, you may use TCP and UDP for connecting
TCP connection uses RTSP port (554) UDP connection uses RTP start & end port.
4. **UPnP:** This IP camera supports UPnP. If this service is enabled on your computer, the camera will be automatically detected and a new icon will be added to "My Network Places".

Below are instructions on how to activate UPnP on your computer:

- A. Open the control panel from the start menu.
- B. Select "Add/Remove programs"
- C. Select "Add/Remove Windows components"
- D. Open "Networking Services" section
- E. Click "Details" and select UPnP to setup the service.
- F. Once activated, the IP camera icon will appear in "My Network Places"
- G. You can now double click that icon to access the camera with your IE browser.

Network/cont



Network/cont: Below is an example of the network settings menu. This is where you key in all of your IP information from your network. These settings must be entered correctly in order for the IP camera to be viewable over the network.

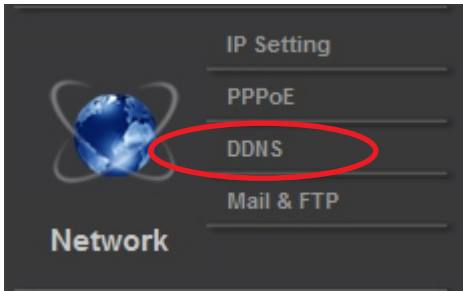
A screenshot of the "IP Setting" menu. The title "IP Setting" is at the top. Below it is the "IP Assignment" section with two radio buttons: "DHCP" and "Static". The "Static" button is selected. Below the radio buttons are five input fields: "IP Address:" (192.168.1.207), "Subnet Mask:" (255.255.255.0), "Gateway:" (192.168.1.1), "DNS 0:" (192.168.1.5), and "DNS 1:" (192.168.1.9). Below this is the "Port Assignment" section with two input fields: "Web Page Port:" (8001) and "HTTPS Port:" (443). To the right of the "HTTPS Port:" field is a link labeled "HTTPS Setting".A screenshot of the UPnP settings. There are two rows of radio buttons. The first row is "UPnP:" with "Enabled" selected and "Disabled" unselected. The second row is "UPnP Port Forwarding:" with "Enabled" unselected and "Disabled" selected. Below these are two input fields: "External Web Port:" (80) and "External RTSP Port:" (554). To the right of these fields is an "Apply" button.

5. **PPPoE:** Check the PPPoE "Enabled" button to activate this function.

A screenshot of the "PPPoE Setting" menu. The title "PPPoE" is at the top. Below it is the "PPPoE Setting" section with two radio buttons: "Enabled" and "Disabled". The "Enabled" button is circled in red. Below the radio buttons are two input fields: "Username:" and "Password:". Below this is the "Send mail after dialed" section with a checkbox labeled "Enabled" and a "Subject:" input field with the text "PPPoE From IPcam". To the right of the "Subject:" field is an "Apply" button.

You can key in a username and password for the connection if you are using ADSL. Send mail after dialed: When connected to the internet, this IP camera will send a email to the specified email account. To configure the IP camera email settings, please refer to the "Mail and FTP Settings"

Network/cont



Network/cont: DDNS:

This IP camera supports DDNS (Dynamic DNS) service. Select "Enabled" to enable the DDNS service.

For viewing the cameras over the internet while using a dynamic (rotating) IP address, there are many services available online.

A screenshot of the "DDNS Setting" page. At the top is a "DDNS" header. Below it is the "DDNS Setting" section. It has two radio buttons: "Enabled" (circled in red) and "Disabled". Below the radio buttons are four input fields: "Provider:" (a dropdown menu showing "dyndns.org"), "Hostname:", "Username:", and "Password:". Each of these four fields is circled in red. Below them is a "Schedule Update:" field with the value "1440" and the unit "Minutes". Below this is a "State" section with a dropdown menu showing "Idle". At the bottom right of the form is an "Apply" button, which is also circled in red. Red arrows point from the numbered steps below to the corresponding elements in the form: Step 1 points to the "Enabled" radio button; Step 2 points to the "Provider:" dropdown; Step 3 points to the "Hostname:", "Username:", and "Password:" fields; Step 4 points to the "Apply" button; Step 5 points to the "Schedule Update:" field. Below the form is a "Note:" section with two paragraphs of text.

DDNS

DDNS Setting

☒ Enabled ☐ Disabled

Provider: dyndns.org

Hostname:

Username:

Password:

Schedule Update: 1440 Minutes

State

Idle

Apply

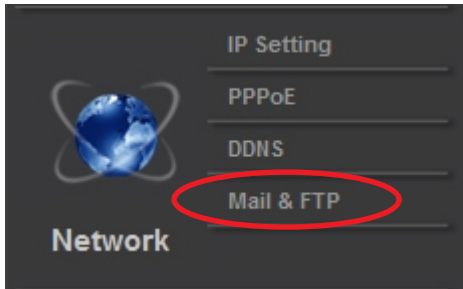
Note:

1. Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.

2. Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended.

1. Enable the service
2. Key in the DynDNS server name, username, and password
3. Set up the IP update refresh rate
4. Click "Apply"
5. If it updates too often, the IP will be blocked by DynDNS
Channel Vision recommends you set it to update once per day (1,440 minutes)

Network/cont



Mail & FTP: Enter your Mail and FTP information into the menu below:

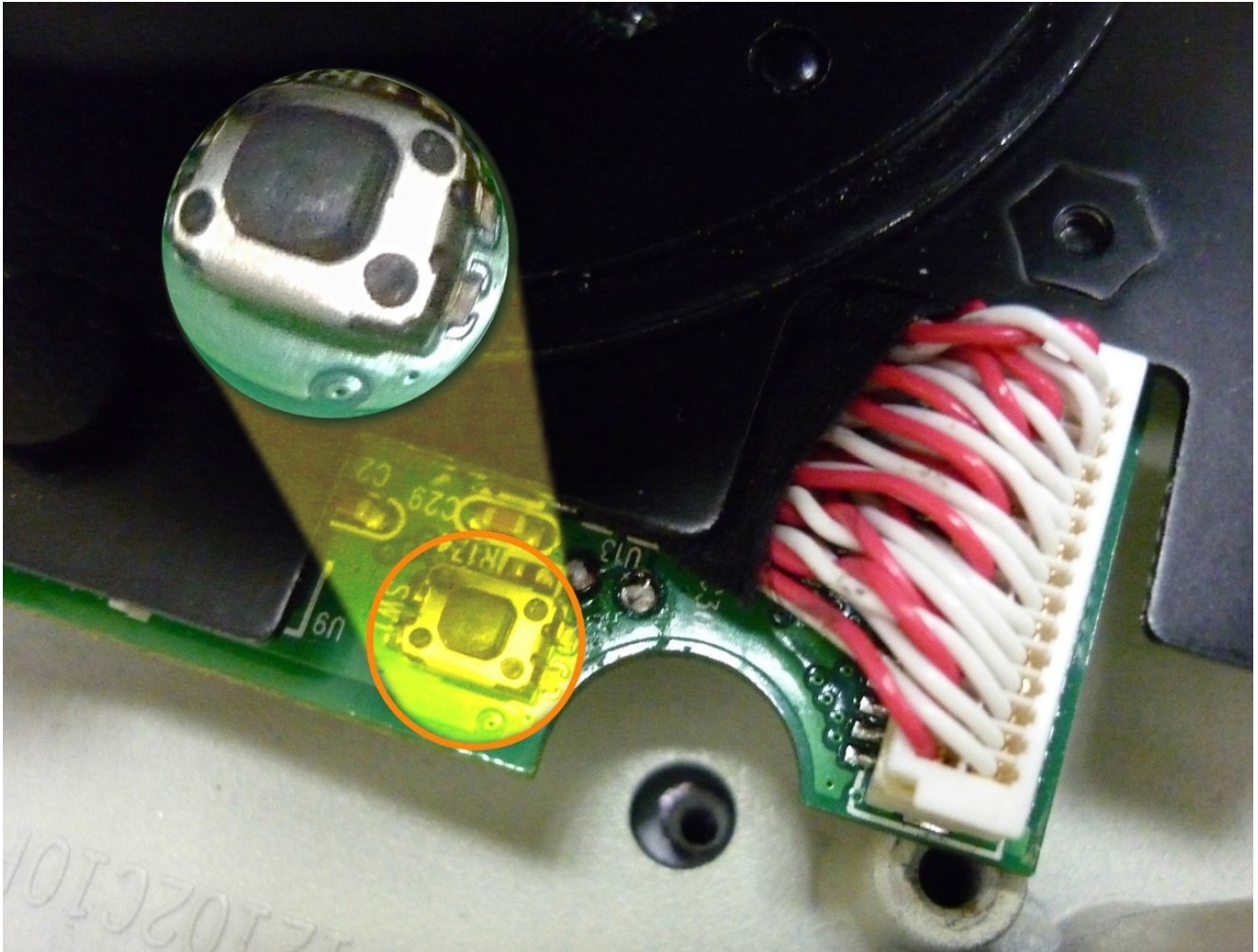
Mail: Mail is a way the IP camera can send you an email when certain actions occur, for example motion, a contact closure on the sensor, etc. For more details, please see page 32

FTP: FTP is for uploading recorded files to a designated FTP site

Mail & FTP	
Mail Setting	
Login Method:	Account v
Mail Server:	
Username:	
Password:	
Sender's Mail:	
Receiver's Mail:	
Bcc Mail:	
Mail Port:	25 (Default 25)
Test	
FTP Setting	
FTP Server:	
Username:	
Password:	
Port:	21
Path:	/
Mode:	PORT v
Create the folder:	Yes v (ex:Path/20100115/121032m.avi)
Test	
Apply	

Please note: standard free web mail email services block devices such like this, due to spam settings.

Factory Default



In some cases it may be necessary to perform a factory default on the camera. Should any issues occur with the camera, there is a very high chance this will solve those issues. To reset the camera, disconnect power from the camera. Then, press and hold the reset button on the camera. While holding reset, apply power. Keep holding down the reset button for 30 seconds. The camera will default to the following settings:

IP: <http://192.168.1.200>

Port: 80

User: admin

Password: admin

Video Settings

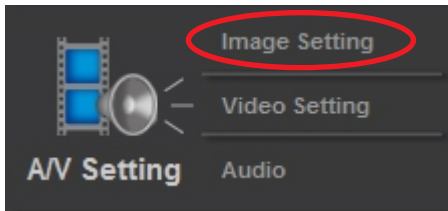


Image Setting: You can adjust the following items on this camera:

1. **Brightness:** This adjusts the brightness level of the camera
2. **Contrast:** This adjusts the difference in color and light between parts of an image
3. **Hue:** This adjusts the hue of the camera
4. **Saturation:** This adjusts the color saturation of the camera.
5. **Sharpness:** This adjusts how sharp the image appears
6. **AGC:** This adjusts the automatic gain control
7. **Shutter Time:** This adjust the shutter speed to reflect various lighting conditions
8. **Sense-Up:** This allows adjustments of selectable digital slow shutter speeds
9. **D-WDR:** This adjusts digital WDR
10. **Video Orientation:** This adjusts video orientation
11. **Day & Night:** This allows many options for manually setting camera mode
12. **Night to Day Lux:** This allows manual setting of day and night lux levels
13. **Current Lux:** This tells you what your current lux level is
14. **DNR:** This allows adjustment of digital noise reduction

Image Setting	
① Brightness:	0 ▾
② Contrast:	0 ▾
③ Hue:	0 ▾
④ Saturation:	0 ▾
⑤ Sharpness:	0 ▾
⑥ AGC:	64x ▾
⑦ Shutter Time:	Outdoor ▾
⑧ Sense-Up:	1/15 ▾
⑨ D-WDR:	Off ▾
⑩ Video Orientation:	☐ Flip ☐ Mirror
⑪ Day & Night:	Light Sensor Mode ▾
⑫ Night to Day Lux:	7 lux ▾ (about) Day to Night Lux: 3 lux ▾ (about)
⑬ Current Lux:	0 lux (about)
⑭ DNR:	5 ▾
Default	

You can reset your IP camera's image settings to default by pressing the "default" button

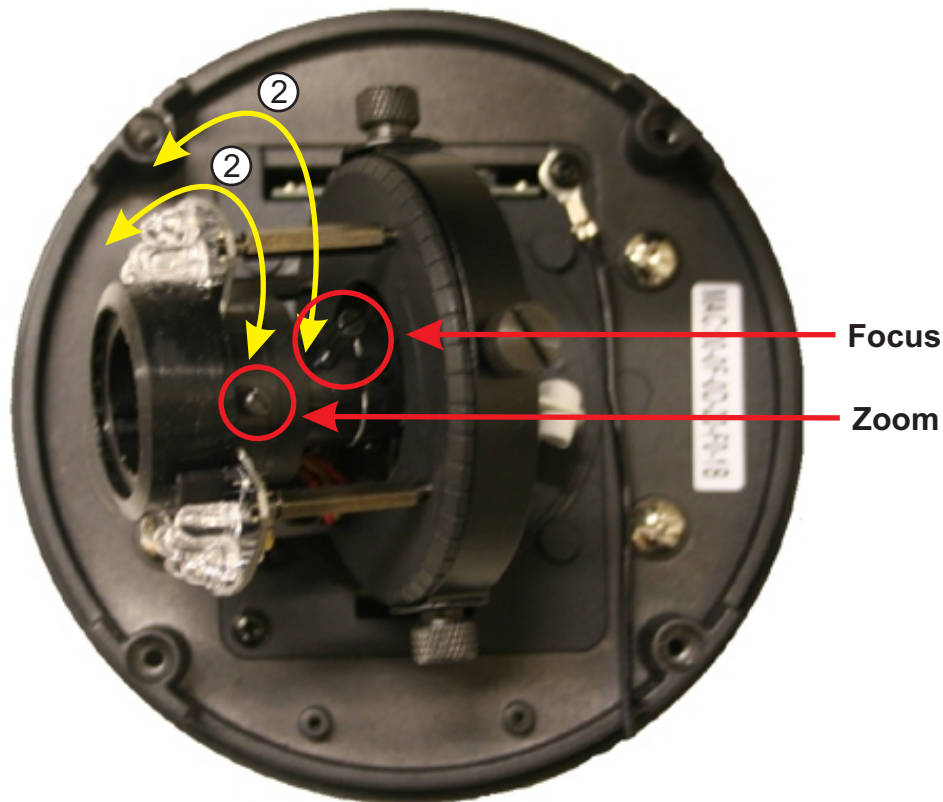
Video Settings/cont.

To adjust zoom and focus on the 6565, first, you have to take off the plastic dome piece. To do this, unscrew the 4 vandal resistant screws using the tool that comes with the 6565.

6565

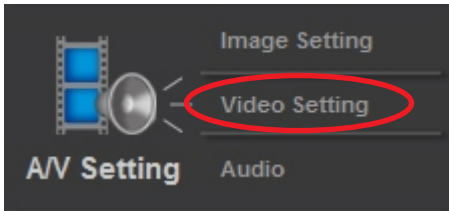


How to adjust zoom and focus on the 6565



1. You will need to unscrew each of the knobs slightly (counter-clockwise) with your fingers or a flat head screwdriver. If you do not unscrew the knobs first, you will be unable to move them
2. Once you have loosened the zoom or focus knob, use the knob as a lever to turn the circular lens piece
3. Once you are done adjusting your zoom and focus, screw the knobs back in (clockwise)

Video Settings/cont.

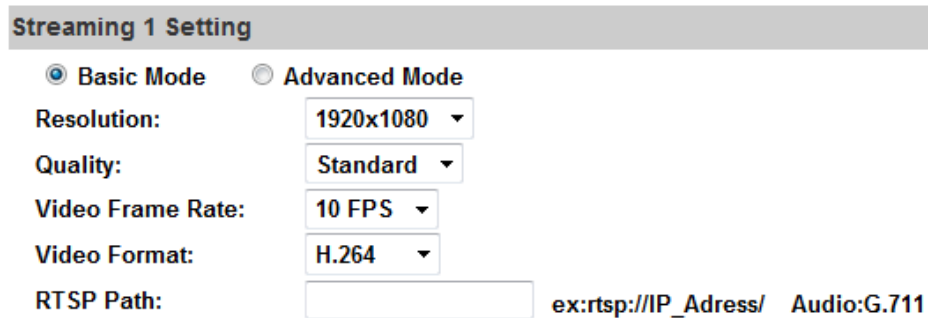


Video Setting:

Click the drop down list to select Video System



Streaming: Basic mode:



1. Resolution:

There are 5 resolutions you can choose from.
1920x1080, 1280x720, 640x480, 320x240, & 176x144

2. Quality:

There are 5 levels you can adjust to:
Best, High, Standard, Medium, & Low.
If you use the highest settings, the network streaming speed will be slower
Also, if you record any files, the higher the quality, the larger the file will be

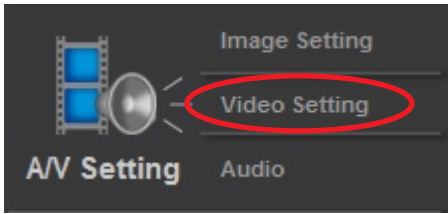
3. **Video Frame Rate:** The video refresh rate per second. Setting max is 30 FPS

4. **Video Format:** This describes the codec use for compression. H.264 is newer and higher quality, and MJPEG (JPEG) is an older, but still commonly used codec

5. **RTSP Path:** RTSP output name.

For example, if I choose camera, the rtsp path would be as follows: **rtsp://camera/V2**

Video Settings/cont.



Streaming (Advanced Mode):

A screenshot of the 'Streaming 1 Setting' screen. The 'Advanced Mode' radio button is selected and circled in red. The settings are as follows: Resolution: 800x600; Bitrate Control Mode: VBR; Video Quantitative: 9; Video Bitrate: 1.5Mbps; Video Frame Rate: 15 FPS; GOP Size: 1 X FPS (with a note 'GOP = 15'); Video Format: H.264; RTSP Path: (empty field) followed by 'ex:rtsp://</>/' and 'Audio:G.711'.

1. Resolution:

There are 5 resolutions you can choose from.

1920x1080	(1080p)
1280x720	(WXGA)
640x480	(VGA)
320x240	(qVGA)
176x144	(qCIF)

2. Bitrate Control mode:

There are 2 choices. CBR (Constant Bit Rate) and VBR (Variable Bit Rate)

A. CBR: 32Kbps-4Mbps (The higher the CBR, the better your video quality will be)

B. VBR: 1 (Low) -10 (High) Compression rate. The higher the compression rate the higher the picture quality, and vice versa. The balance between VBR and network bandwidth will affect your picture quality. When using VBR, it is less likely that your streaming video will break up or lag.

3. Video Frame Rate: The video refreshing rate per second

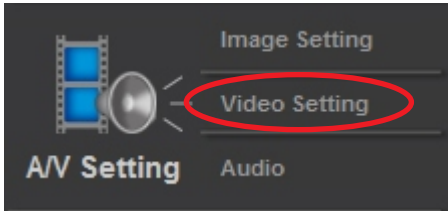
NTSC: Max 30 frames per second PAL: Max 25 Frames per second

4. GOP Size: This means 'Group of Pictures.' The higher the GOP is, the better the quality of the images

5. Video Format: This describes the codec use for compression. H.264 is newer and higher quality, and MJPEG (JPEG) is older, but will stream faster

6. RTSP Path: RTSP output connecting route

Video Settings/cont.



Stream 2 (Basic Mode):

Streaming 2 Setting

☒ Basic Mode ☐ Advanced Mode

Resolution: 640x480 ▼

Quality: Standard ▼

Video Frame Rate: 15 FPS ▼

Video Format: JPEG ▼

RTSP Path: v2 **ex:rtsp://<>/v2 Audio:G.711**

1. Resolution:

There are 5 resolutions you can choose from.

1920x1080	(1080p)
1280x720	(WXGA)
640x480	(VGA)
320x240	(qVGA)
176x144	(qCIF)

2. Quality:

There are 5 levels you can adjust to:

Best, High, Standard, Medium, & Low

If you use the highest settings, the network streaming speed will be slower

Also, if you record any files, the higher the quality, the larger the file will be

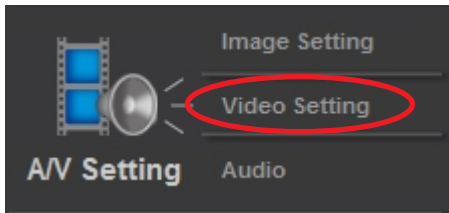
3. Video Frame Rate: The video refreshing rate per second

4. Video Format: This describes the codec use for compression. H.264 is newer and higher quality, and MJPEG (JPEG) is older, but may stream faster

5. RTSP Path: RTSP output connecting route

For example, **rtsp://camera/v2**

Video Settings/cont



Stream 2 Advanced Mode:

Streaming 2 Setting

☐ Basic Mode ☒ **Advanced Mode**

Resolution: 640x480

Bitrate Control Mode: ☒ CBR ☐ VBR

Video Quantitative: 7

Video Bitrate: 1.5Mbps

Video Frame Rate: 15 FPS

GOP Size: 1 X FPS

Video Format: H.264

RTSP Path: v2 **ex:rtsp://</>/v2 Audio:G.711**

1. Resolution:

There are 5 resolutions you can choose from.
1920x1080, 1280x720, 640x480, 320x240, & 176x144

2. Bitrate Control mode:

There are 2 choices. CBR (Constant Bit Rate) and VBR (Variable Bit Rate)

3. Video Frame Rate:

The video refreshing rate per second.

4. GOP Size:

This means 'Group of Pictures.' The higher the GOP is, the better the quality of the images.

5. Video Format:

This describes the codec use for compression. H.264 is newer and higher quality, and MJPEG (JPEG) is older, but may stream faster.

6. RTSP Path:

RTSP output connecting route.

3GPP Streaming Setting

☐ Enabled ☒ **Disabled (Resolution=176x144, FPS=5, Format=MPEG4)**

3GPP Path: 3g **ex:rtsp://</>/3g Audio:AMR**

ex:rtsp://</>/3gx No Audio

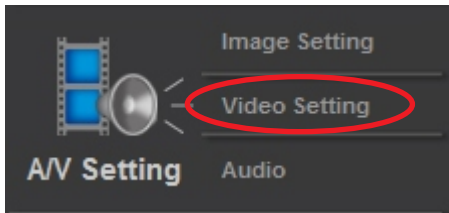
3GPP Streaming Mode:

1. Enable or Disable 3GPP Streaming
2. 3GPP: 3GPP output name

Apply

*Channel Vision recommends you use 176x144 resolution, 5FPS, MPEG4 format for 3GPP mode

Recommended Video Settings



Below are a few examples of recommended settings, depending on the situation.

1. Viewing a stationary object, or area that does not receive much movement

If the camera is looking at a stationary object, or an area that does not receive a lot of traffic or movement, the camera can be set to the highest settings. An example of the highest settings are below:

Streaming 1 Setting

☐ Basic Mode ☒ Advanced Mode

Resolution: 1920x1080 ▼

Bitrate Control Mode: ☒ CBR ☐ VBR

Video Quantitative: 9 ▼

Video Bitrate: 8Mbps ▼

Video Frame Rate: 30 FPS ▼

GOP Size: 1 X FPS ▼ GOP = 30

Video Format: H.264 ▼

RTSP Path: ex:rtsp://IP_Address/ Audio:G.711

2. Viewing an area that receives a lot of traffic or movement

If the camera is looking at an area that views constant or near constant movement, a medium setting is recommended. An example of medium settings are below:

Streaming 1 Setting

☐ Basic Mode ☒ Advanced Mode

Resolution: 1280x720 ▼

Bitrate Control Mode: ☐ CBR ☒ VBR

Video Quantitative: 5 ▼

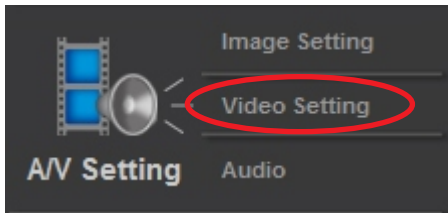
Video Bitrate: 2Mbps ▼

Video Frame Rate: 10 FPS ▼

GOP Size: 1/2 X FPS ▼ GOP = 5

Video Format: H.264 ▼

Recommended Video Settings/cont



3. Viewing the 6565 on a slow internet connection

If the 6565 is installed on a network that does not have a very fast internet connection, or you are viewing on a network with limited bandwidth, the example below is recommended.

Streaming 1 Setting

☐ Basic Mode ☒ Advanced Mode

Resolution: 640x480 ▼
Quality: Standard ▼
Video Frame Rate: 3 FPS ▼
Video Format: JPEG ▼

4. Viewing a 6565 on the lowest settings

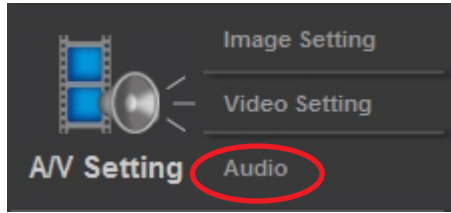
Below is an example of the lowest settings.

Streaming 1 Setting

☐ Basic Mode ☒ Advanced Mode

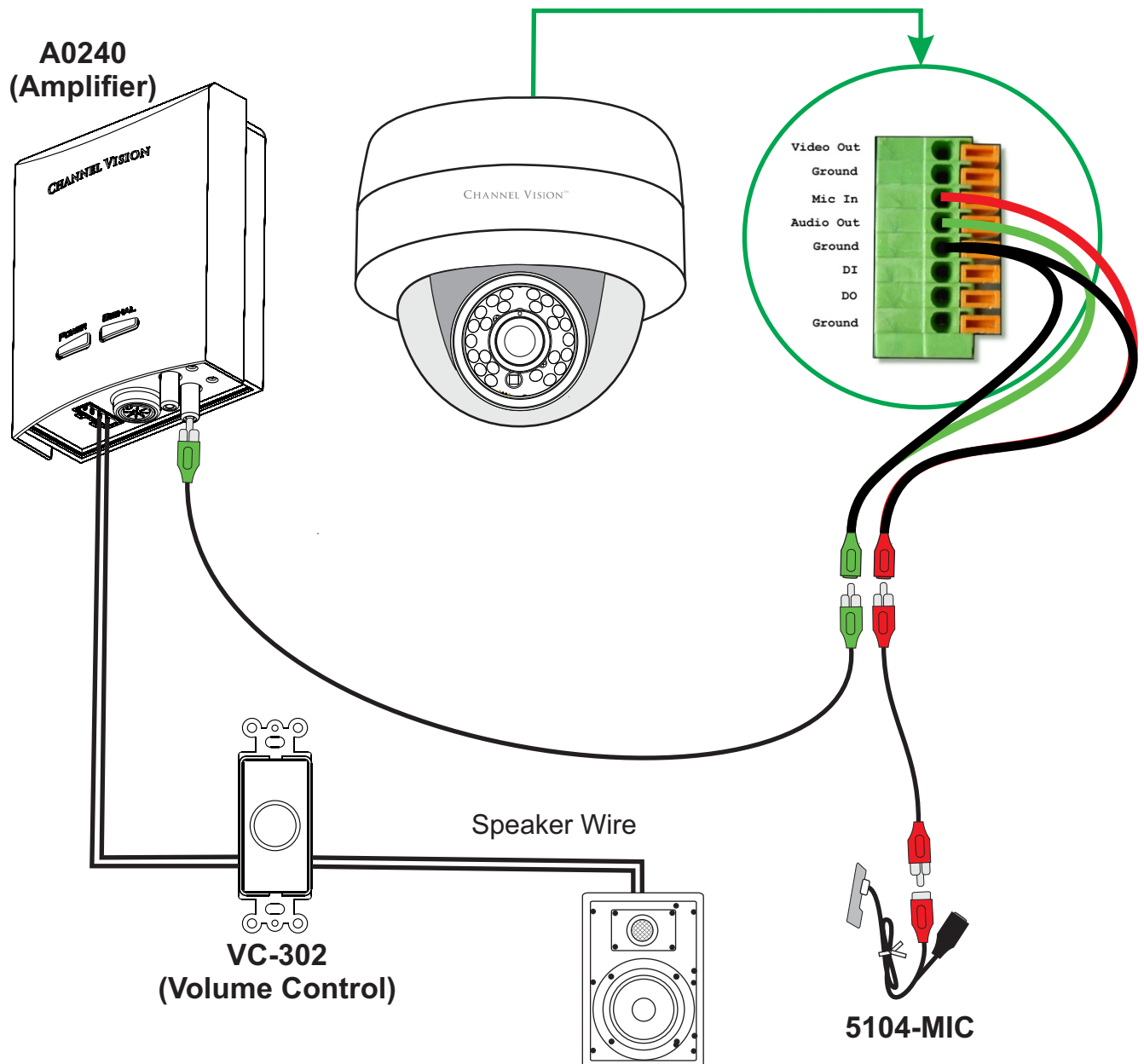
Resolution: 176x144 ▼
Quality: Low ▼
Video Frame Rate: 3 FPS ▼
Video Format: JPEG ▼

Audio

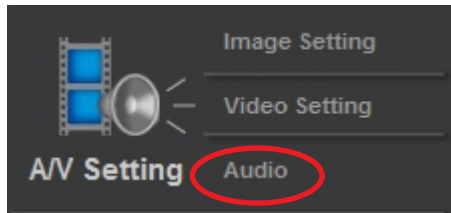


Audio:

Most Channel Vision IP Cameras support 2-way audio, allowing you to listen with an external microphone and speak through powered speakers using your PC, both internally in your network, as well as remotely over the internet. You can send audio from the IP camera to the PC you are connected to. You can also send audio from the PC to the IP camera. This audio output on the camera is located on the camera pigtail. You would need to connect to an amplifier, for example the A0240. To send audio from the PC to the IP camera, you need a standard microphone plugged into the computer, for example a 5104-MIC. You can also plug a microphone directly into the IP camera to feed the A0240 directly.



Audio/cont



Audio: Below are instructions on how to enable audio on your IP camera.



Select "Enabled" to activate audio from the camera to your PC



Select "Chatting" to activate audio from your PC to the audio output of your IP camera

***While recording to an SD card on the IP camera, audio playback will be choppy.**

Event List



Event Setting

Schedule

MO Setting

Log List

Event

Event Setting



Area 1

Area 2

Area 3

Area Setting:

Sensitivity:

☐ Area 1:
☐ Area 2:
☐ Area 3:

☐ E-mail ☐ FTP ☐ Out1
☐ E-mail ☐ FTP ☐ Out1
☐ E-mail ☐ FTP ☐ Out1

Subject:

Interval: a period of time between every two motions detected.

☐ Based on the schedule

Record File

File Format:

Record Time Setting

Pre Alarm:

Post Alarm:

1.) **Event Setting:** The purpose of this menu is to configure what the camera will do when an "event" is generated.

2.) Motion Detection

This IP camera allows 3 areas of motion detection. (Area Setting) When motion is triggered, they can send the video, in the form of events to a specific mail address, transmit the live video to a remote FTP server, trigger a relay, and save events in the form of video to local SD card. (SD Card recording only available with the 6564 dome camera)
To set up the motion area, click "Area Setting". Use the mouse to click and drag a box of the area you want to select. The same method is used for area 2 and area 3.

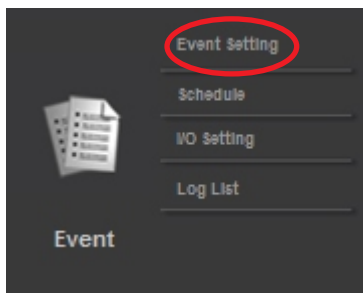
3.) **Record File Setting:** The 6564 & 6543 allow 3 different types of recording files.

A.) AVI File (With time stamp) This is the largest file size option to choose, but the video will be the highest quality available.

B.) JPEG (MJPEG) File (With time stamp) This is a smaller file size to choose, but is of lower quality than the AVI format.

C.) JPEG (MJPEG) Single file with interval setting.

Event List/cont.



Event Setting

Area Setting:

Area 1	Area 2	Area 3
1(Low)	5	5

Sensitivity:

Record Time Setting

Pre Alarm: 5 sec Post Alarm: 5 sec

Network IP Check

IP Check: ☐ Enabled ☒ Disabled

IP Address:

Interval: 30 sec

IP Check: ☐ Save to SD card Apply

4.) Record Time Setting:

Pre Alarm and Post Alarm setups for record start and end time when motion is detected, or to trigger a relay. Note: Pre/Post Alarm record time based on record time setting and 6543 or 6564's built-in memory. The ability to store data is limited, so if the video quality is set very high, this will cause a drop in the recorded FPS. This will also decrease pre or post recording time.

5.) Network IP Check:

This option serves two functions. One, it checks your internet connection (Interval) to make sure your network connection has not been lost. Two, if your connection is lost, you can set this to automatically record to the SD card until it is full.

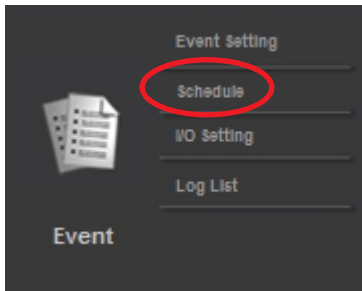
“IP Check” enables or disables this feature.

“IP Address” is what the camera will use to check if the internet is still working.

“Interval” is how often the camera will test your internet connection.

“IP Check” (lower option) has a box to check. When you check this box, you will record to your SD card upon network failure.

Schedule



- 1.) **Schedule:** Complete schedule setup to tell the IP camera when to record data.
- 2.) **Snapshot:** After enabling the snapshot function, user can select the storage location of the snapshot, the time of snapshot, and the file name of snapshot.

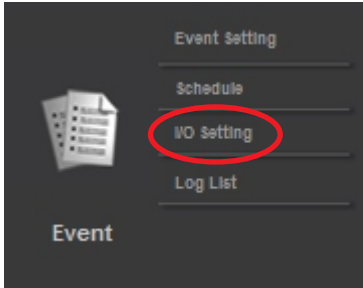
The image shows two configuration pages. The top page, titled 'Schedule', features a grid for selecting recording times. The columns represent hours from 0 to 23, and the rows represent days of the week (Mon. to Sun.). A red circle highlights the cells for Monday at 16:00, 17:00, 18:00, and 19:00. A red arrow points from this circle to the 'Apply' button. Below the grid is a legend: a green square followed by the text 'With schedule setup.'.

The bottom page, titled 'Snapshot', contains settings for the snapshot function. A red circle highlights the 'Enabled' radio button. Another red circle highlights the storage options: 'E-mail', 'FTP', and 'Save to SD card'. A red arrow points from this circle to the 'Apply' button. Below these options are fields for 'Interval' (set to 10) and 'File Name' (set to Snapshot). A red arrow points from the 'Apply' button to the 'File Name' field.

Click "Enabled" to enable snapshot.
 Select the E-mail, FTP, or Save to SD card option to enable.

Click the desired areas (boxes) to designate recording time.
 Green=record

I/O Setting



I/O Setting:

This IP camera supports 1 input/1 output. When the input is triggered, it can send the video to a specific e-mail address, (only one receiver email is allowed) transmit the video to remote ftp server, trigger the relay, and save video to local SD card.

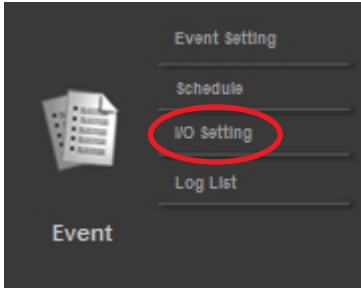
 A screenshot of the 'I/O Setting' configuration page. The page has a title bar 'I/O Setting'. Below it is the 'Input Setting' section, which contains: 'Input 1 Sensor:' with a dropdown menu set to 'I.O'; 'Input 1 Action:' with checkboxes for 'E-mail', 'FTP', 'Out1' (checked), and 'Save to SD card'; 'Subject:' with a text box containing 'GPIO In Detected!'; 'Interval:' with a dropdown menu set to '10 sec'; and an unchecked checkbox 'Based on the schedule'. Below this is the 'Output Setting' section, which contains: 'Mode Setting:' with radio buttons for 'OnOff Switch' (selected) and 'Time Switch'; and 'Interval:' with a dropdown menu set to '10 sec'. An 'Apply' button is at the bottom right. A red circle highlights the 'Input 1 Sensor', 'Input 1 Action', and 'Subject' fields, with a red arrow pointing from the text above to the circle.

Alarm Input Setting: The GPIO I/O port input activates related functions when I/O input is triggered

GPIO Output Setting: The GPIO I/O port output activates a switch, slide switch or pan/tilt Module for use with any standard relay box

GPIO 0	ALARM INPUT
GPIO 1	Normal: 3.3V (The voltage differential from GPIO pin & GND) Active: 0V (GPIO 0 & GPIO1 link to PIN2 GND)
GPIO 2	ALARM OUTPUT
GPIO 3	Normal: 3.3V (The voltage differential from GPIO pin & GND) Active: 0V (GPIO 0 & GPIO1 link to PIN2 GND)

I/O Setting/cont



I/O Setting:

This IP camera supports 1 input/1 output. When a input is triggered, it can send the video to a specific e-mail address, transmit the video to remote ftp server, trigger the relay, or save video to your SD card.

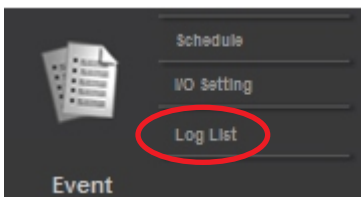
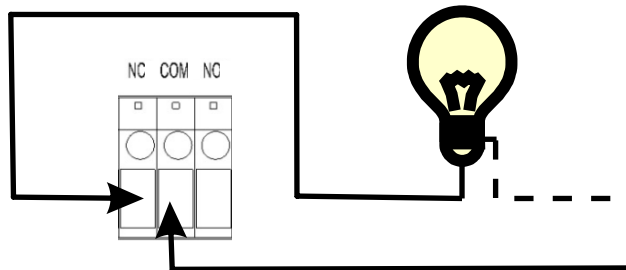
GPIO INSTALLATION EXAMPLE 1: Floodlight

Trigger a normally off (Normally Open) alarm siren that activates when an event/motion occur at the COM terminal.



GPIO INSTALLATION EXAMPLE 2: Light Bulb

Trigger the normal on (Normally Closed) indoor light off when an event/motion occurs on the COM terminal.

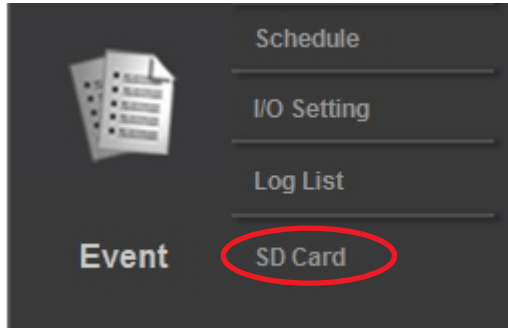


Log List

Log List: This menu provides access to the logs the IP camera will create.

Log List	
System Logs	Logs
Motion Detection Logs	Logs
I/O Logs	Logs
All Logs	Logs

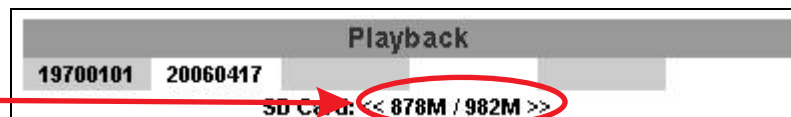
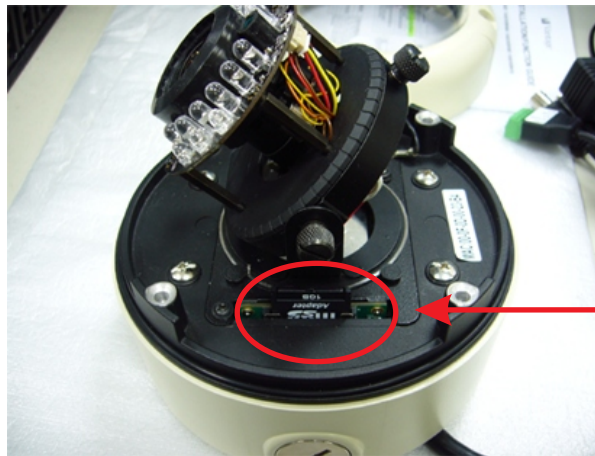
SD Card



Recommended SD Cards

SanDisk 128M	Tracend 128M 80X
SanDisk 256M	Tracend 256M 80X
SanDisk 512M	Tracend 512M 80X
SanDisk 1G	Tracend 1G 80X
SanDisk 2G	Tracend 2G 80X
SanDisk 4G	Tracend 4G 80X

Using the SD card could affect the frame rate of the video.
Make sure the SD card is pushed into the slot completely.



The capacity of the SD card is shown in the SD card menu. Below is a list of the video files recorded. The video format recorded to the SD card is AVI.

Double click the video to open Windows Media Player and play the selected file.

To delete the video, check it with the mouse, then click the Del.

When the SD card is full, it will automatically delete the oldest video files.

2009/04/17			
Time	Video	Event Type	☐
09:05:21	090522f.avi	Network Dis-connected	☐
09:05:52	090552f.avi	Network Dis-connected	☐
09:06:22	090622f.avi	Network Dis-connected	☐
09:06:52	090652f.avi	Network Dis-connected	☐
09:07:22	090722f.avi	Network Dis-connected	☐
09:07:52	090752f.avi	Network Dis-connected	☐
09:08:22	090822f.avi	Network Dis-connected	☐
09:08:51	090851f.avi	Network Dis-connected	☐
09:09:21	090921f.avi	Network Dis-connected	☐
09:09:51	090951f.avi	Network Dis-connected	☐

1 2 3 4 5

Port Forwarding

In order to view the IP camera from outside of your home or business network, port forwarding configuration will be required in your router.

Port Forwarding LG Routers

In the example below, there is a IP camera running on port 8002 on the LAN.

- 1.) Add the IP information, including the desired port into the port forwarding tab of “advanced” in the router
- 2.) Check “Enable Port Forwarding”

☒ **Enable Port Forwarding**

Description :	IP Dome
Local IP :	192.168.2.64
Protocol :	Both ▾
Local Port :	8002
Public Port :	8002

3.) Click ‘Add’

4.) Click “Select”

Current Port Forwarding Table :

NO.	Description	Local IP	Local Port	Type	Public Port	Select
1	IP Dome	192.168.2.64	8002	BOTH	8002	☒

5.) Select “Apply” to enable your new port forwarding rule

6565 Specifications

Image Sensor:	1/2.7" CMOS (2 Megapixel)
Lens:	3-10.5mm Varifocal
Sensitivity:	Color: 0.05 lux (AGC on) B/W: 0.01 lux (IR ON)
IR Distance:	18 LEDs, max distance 15 meters
Angle of View:	31.3° -104.5° (H) x 17.1° -59.6°(V)
Video Compression:	H.264, MJPEG, MPEG-4 (3GPP only for MPEG-4)
Max Resolution:	1920x1080
Supported Resolutions:	1920x1080, 1280x720, 640x480, 320x240 & 176x144
Audio Compression:	G.711 (64k) or G.726 (24/32k)
Audio:	Input, audio input 3.5mm line level) Output (3.5mm line level) 2-way audio supported
I/O:	D1 x1 / DO x1
Security:	Password protection, IP address filtering, HTTPS encrypted, 802.1x port based authentication for network protection, & QoS/DSCP
Network Protocol:	IPV6, IPV4, TCP/IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, UPnP, 3GPP, Samba, & Bonjour
DC Power Consumption:	DC 12V Max: 3.84W (IR ON), 2.52W (IR OFF)
POE Power Consumption:	PoE Max: 4.8W (IR ON), 3.36W (IR OFF)
Bracket:	3-Axis bracket
Vandal Proof:	Yes
IP Rating:	IP66
Motion Detection:	Yes, digital only
SD Cards Supported:	Micro SD 32GB (max tested; Trancend, Scandisk)
Operating Temperature:	0° - 40° Celsius / 32° - 104° Fahrenheit
Heater:	Yes
Video Output:	Composite, BNC
Maximum Users:	10
Dimensions:	

System Requirements

OS:	Windows 2000, XP, Vista, 7
Browser:	Microsoft IE 6.0 or above
Suggested Hardware:	Intel Dual Core 1.66G,RAM: 1024MB, Graphic card: 128MB
Minimum Hardware:	Intel-C 2.8G, RAM: 512MB, Graphic card: 64MB

***Specifications subject to change without notice.**



1 Year Limited Warranty

Channel Vision Technology will repair or replace any defect in material or workmanship which occurs during normal use of this product with new or rebuilt parts, free of charge in the USA, for one year from the date of original purchase. This is a no hassle warranty with no mail in warranty card needed. This warranty does not cover damages in shipment, acts of God, failures caused by other products not supplied by Channel Vision Technology, or failures due to accident, misuse, abuse, or alteration of the equipment. This warranty is extended only to the original purchaser, when purchased from an authorized reseller and a purchase receipt, invoice, or other proof of original purchase date will be required before warranty repairs are provided.

Mail in service can be obtained during the warranty period by calling (800) 840-0288 toll free. A Return Authorization number must be obtained in advance and can be marked on the outside of the shipping carton.

This warranty gives you specific legal rights and you may have other rights (which vary from state to state). If a problem with this product develops during or after the warranty period, please contact Channel Vision Technology, your dealer or any factory-authorized service center.

Channel Vision products are not intended for use in medical, lifesaving, life sustaining or critical environment applications. Channel Vision customers using or selling Channel Vision products for use in such applications do so at their own risk and agree to fully indemnify Channel Vision for any damages resulting from such improper use or sale.



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



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