

**Wireless Broadband IP Video  
Surveillance System  
Version 1.1**

**Support 1-800-000-0000**

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## **Chapter 1 – About your new product**

### Device highlights

- User Friendly Applications
- Simply to configure
- Digital I/O Port
- Ability to use any equipment
- Specialized Application Support
- Multiuse Environment
- Ability to See, Store and Capture Images (Live)
- Email Notification
- Lower Purchase Cost
- Cheaper to operate

This is an IP Based Video Surveillance System. Applications for this product are free and do not require any additional purchases they are built into the device as part of the device. Cradlepoint and I-net Secureview software makes configuration and maintaining the product easy. Combining the Digital I/O with different sensors makes this a one of a kind device. Using any device such as a motion sensor, infrared, radar you are able to set this up to provide instant notification as well as send data to your cell phone, email address, or pager. With our ability to use Wireless Broadband, WIFI, or LAN we can produce live images at remote sites as well and setup a trigger to notify you as an alarm would. While developing the product we found that we could combine different technologies to produce one product that works with all of them.

### Sample applications

- Police
- Ambulance
- Remote Locations
- Difficult Locations
- Time and Triggered Events
- Email Notifications
- Cell Phone Alerts
- Etc...

## Chapter 2 – Hardware and Software Requirements

### Installation and Configuration

To configure for the first time you will need to have a computer or a laptop that can communicate via a wireless connection and TCP/IP. This is standard on most laptops today.

### Wireless Broadband

Wireless Broadband 2.1.0 Compatibility List			
Sprint	Verizon	AT&T	Alltel
<b>USB:</b>  Franklin CDU-550 Franklin CDU-680 Novatel U720 Novatel U727 Sierra Wireless 595U Sierra Wireless C597 (Compass 597)	<b>USB:</b>  Novatel USB720 Novatel USB727 Sierra Wireless 595U UTStarcom UM150 (Pantech UM150)	<b>USB:</b>  Sierra Wireless 881U Sierra Wireless 875U USBConnect 881	<b>USB:</b>  UTStarcom UM150 (Pantech UM150)

### Computer

Used for I-net Secureview Software

- Intel 1.5 GHz or above
- 128MB Ram
- Windows 2000, XP or Vista
- 4MB VGA Video Card (24 bit true color display)
- 100MB free hard disk space
- 10/100 Ethernet
- Microsoft Internet Explorer 6 or above
- Multi Channel Recording mode, requires the HDD transfer rate must be 66MB or above

### Cameras

Any CCTV camera using a BNC connection

### Digital I/O

## **Chapter 3 – Equipment**

Equipment included as part of your system.

- IP Based Video Surveillance Box
- Camera
- Power Supply
- 3ft BNC Cable
- M-M Power Cable for Camera
- I-net Secureview Software
- PDF Files with a Setup Guide, User Manual, Secureview Manual, and Cradlepoint Manual.

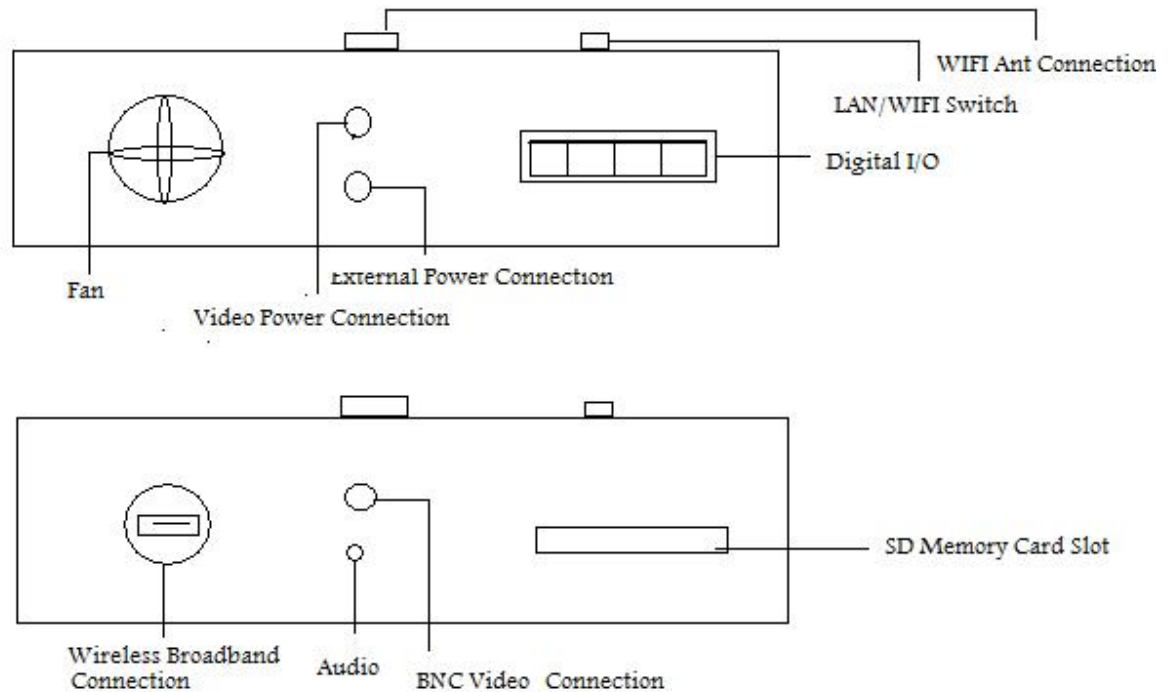
Optional Equipment

- Wireless Broadband
- SD memory card (4MB or 16MB)
- Computer

<<<Picture of Equipment >>>

## Chapter 4 – Basic Information that you need to know

Getting to know your Video Surveillance Box.



### Description of Connections

1. **Fan** – Used to maintain an ideal operating temperature.
2. **External Power Connection** – This is where the supplied power supply is connected.
3. **Video Power Connection** – Using the M-M connector supplied with the kit will allow you to run power for the video camera from this device.
4. **Digital I/O** – Allows for optional devices such as external motion detectors, alarms and pan and tilt capabilities.
5. **LAN/WIFI switch** – Using this switch allows you to set how you want to use this device.
6. **WIFI Antenna Connection** – Can be used with external antenna for internal network applications.
7. **USB Wireless Broadband Connection** – Only to be used with approved equipment. Refer to recommended list from Chapter 2.
8. **BNC Video Connection** – Used for connecting cameras of your choice.
9. **Audio Plug-in** – This can be used for recording audio. Not recommended due to amount of free space available for recording video to your SD memory card.
10. **SD Memory Card Slot** – You can use any SD Memory Card that is not greater than 16MB. The bigger the card the more available storage space that is available to video.

## **Description of terms**

**ISP** – Also known as an Internet Service Provider, companies such as ATT, Verizon, Sprint and other local providers, assign you internet device an TCP/IP address. This address can be either static or dynamic.

**LAN** – Local Area Network

**TCP/IP** – This is the internet protocol that is used for most LAN and all of the Internet.

**SMTP** – Simple Mail Transfer Protocol, this is used for sending and receiving emails.

**WIFI** – Wireless network connection.

**DNS** – Domain Name Server – These are used by the internet to translate IP address to a name. Example: [www.yahoo.com](http://www.yahoo.com) could translate to 10.136.58.23

**Subnet Mask** – This allows you to create your own internal network. Typically the default will be set to 255.255.255.0 which allows for 254 different IP addresses or 254 computers and devices.

**MAC Address** – This is a number that is assigned by the manufacturer based on equipment type. An easy way to think about it, consider it a serial number assigned by the manufacturer. This will be found on the bottom of the Wireless Surveillance device.

**Dynamic IP Addressing** – This is where an ISP assigns you a IP address. This address can change and could break your ability to see your camera. There are companies that provide Dynamic DNS Services.

**Static IP Addressing** – The ISP assigns a unique IP address for the device you are using and it will never change.

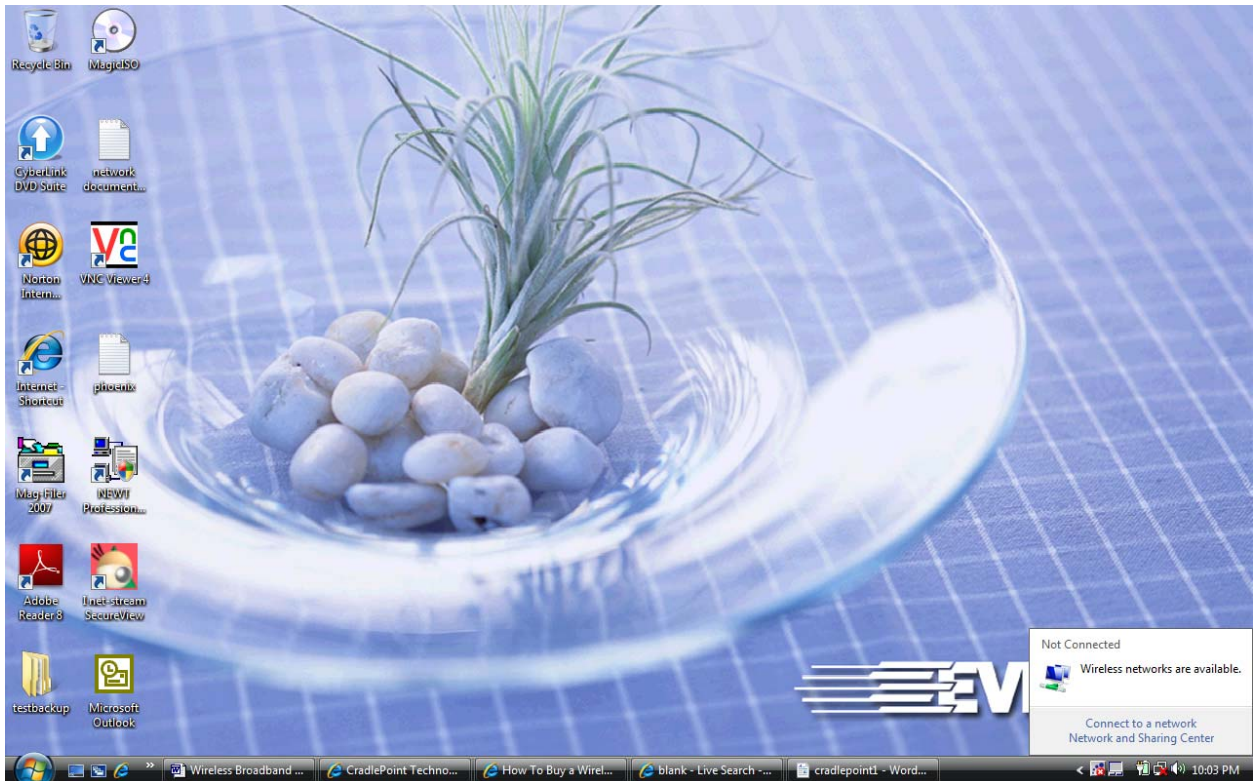
## Chapter 5 – Configuration

There are 3 parts to making the Video Surveillance Device to work. We will step thru each piece to get your camera online.

- Configure the wireless router
- Working with and Configuring the Dynamic DNS software
- Configure the I-net Secureview software

### How to configure the Cradlepoint Router Software

1. Connect to the wireless router portion of the device.
2. Open Internet Explorer.
3. Connect to the router via a TCP/IP connection.
4. Login to the router.

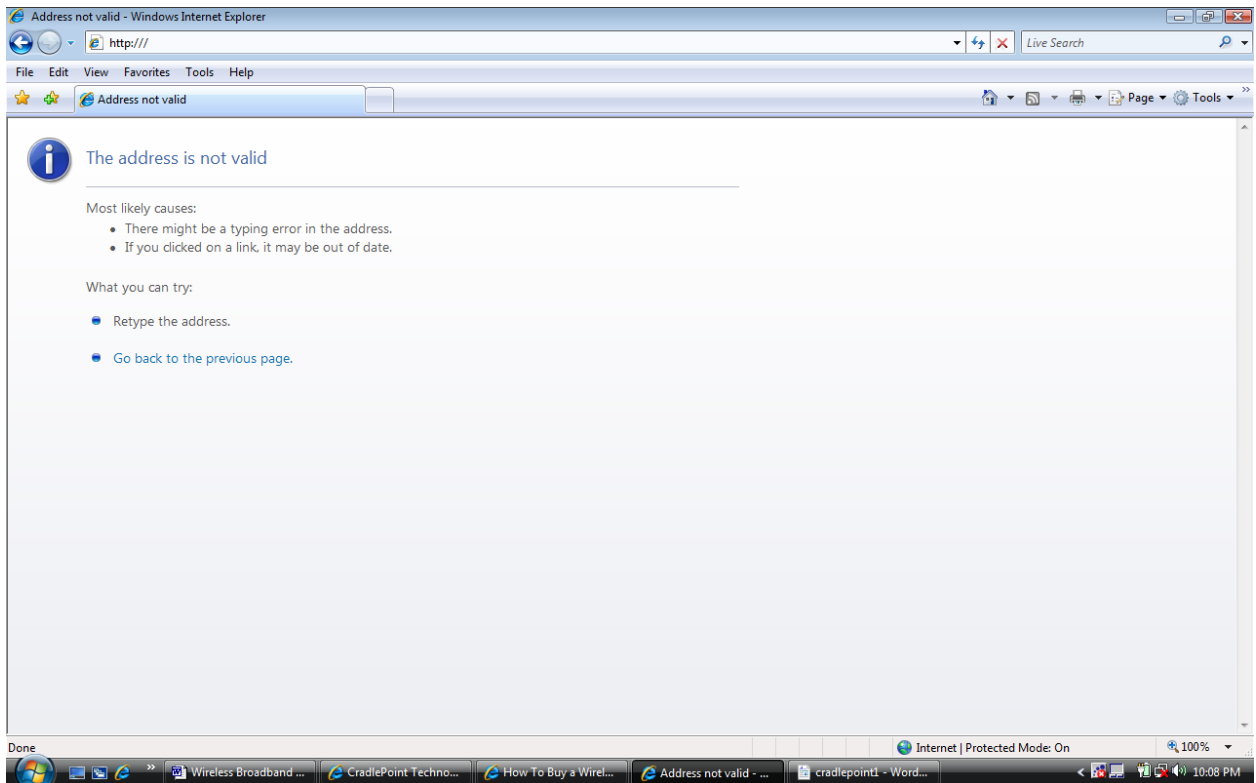


### Connecting to the wireless router

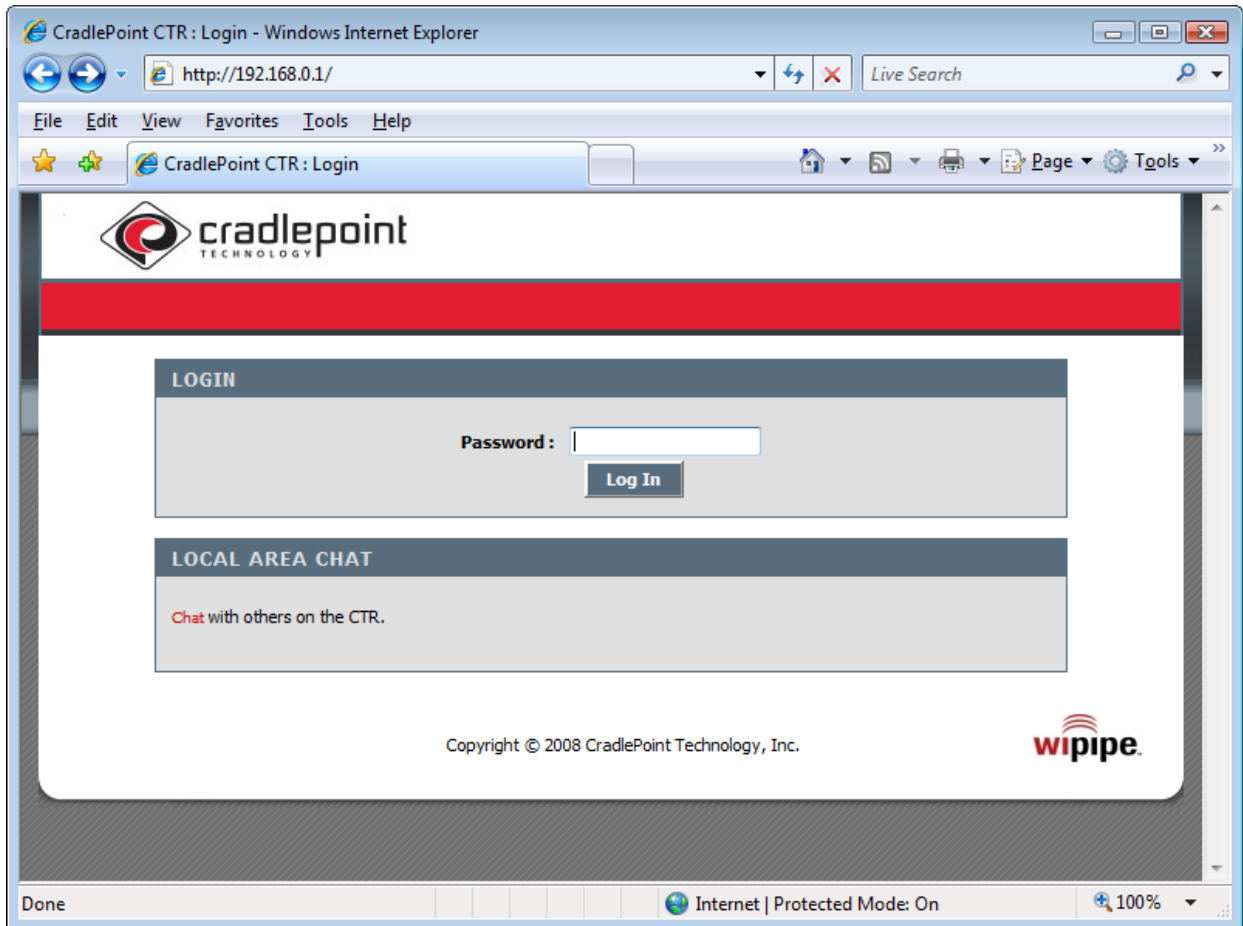
1. Located in the bottom right hand corner is a icon with 2 computers with a red X on it. Move your mouse over the icon and click on this one time, this will bring a popup box telling you there is Wireless networks are available. Click on Connect to a network. Each computer maybe a different.
2. This will provide a new screen, which will list all available networks.



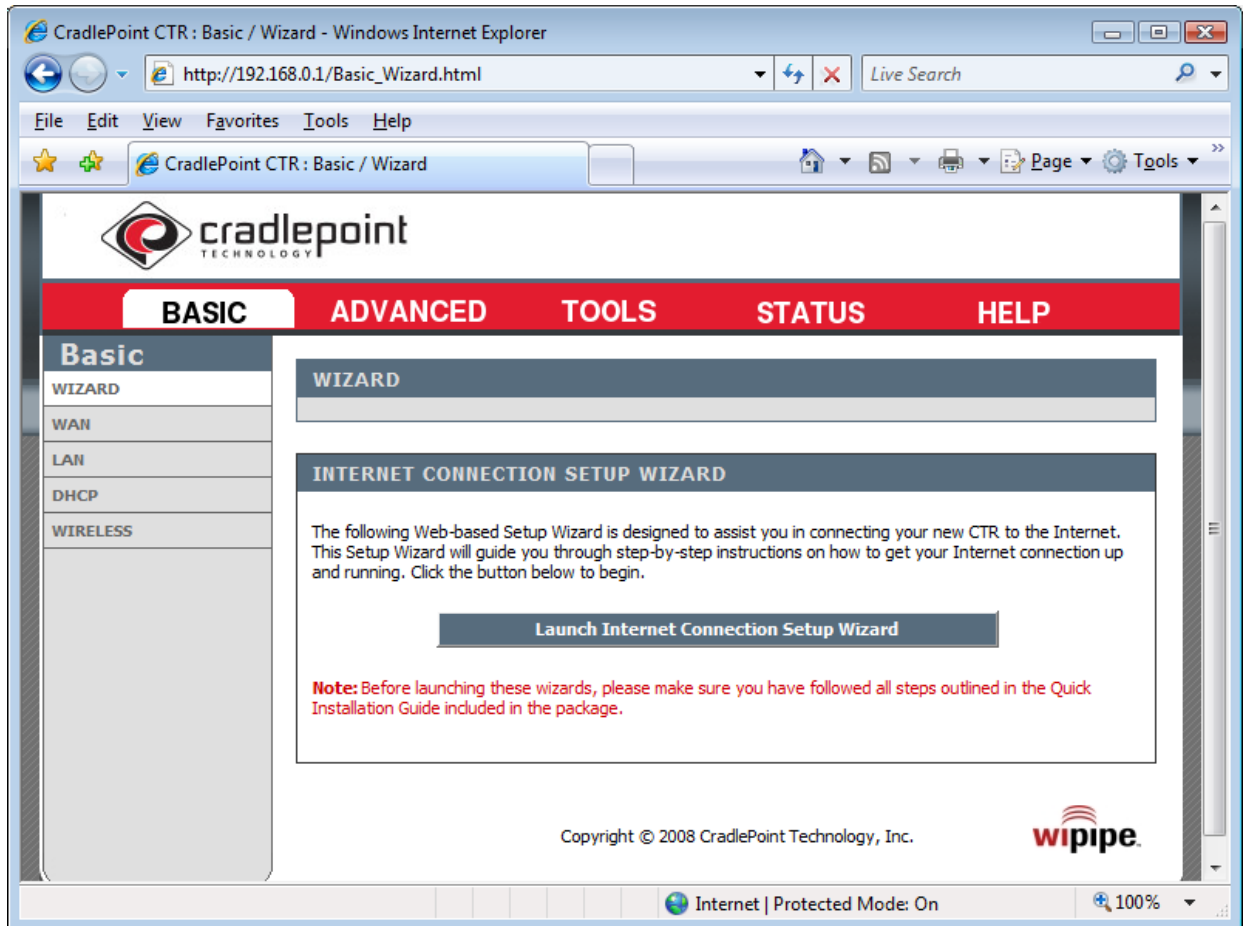
3. You will want to select the one that begins with CT-XXX (XXX – will be the last 3 digits of the MAC Address).
4. Open Internet Explorer. You will see a screen like below.



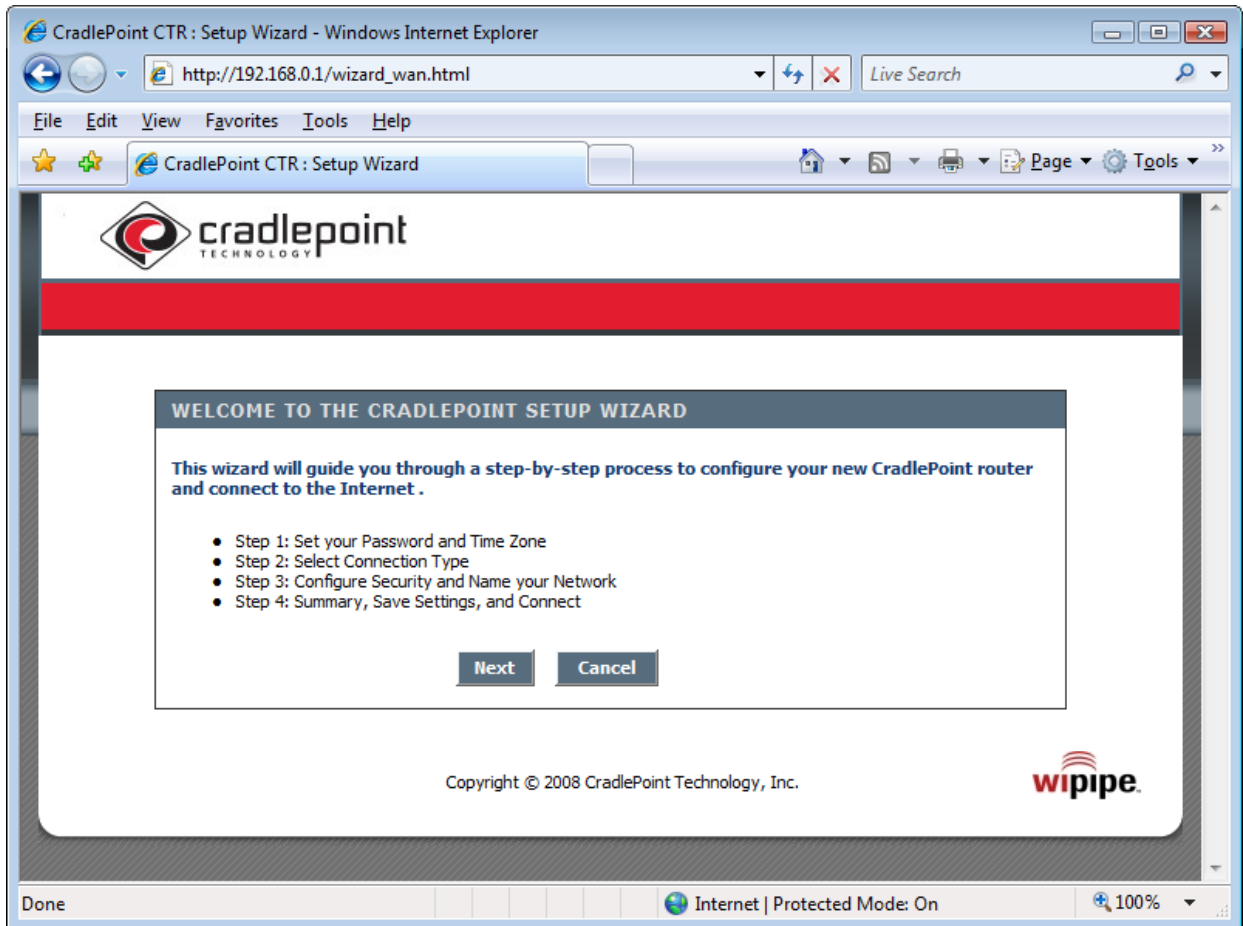
5. In the address line type in the following <http://192.168.0.1> and hit enter.
6. This will take you to the wireless router login screen. See image on the next page.



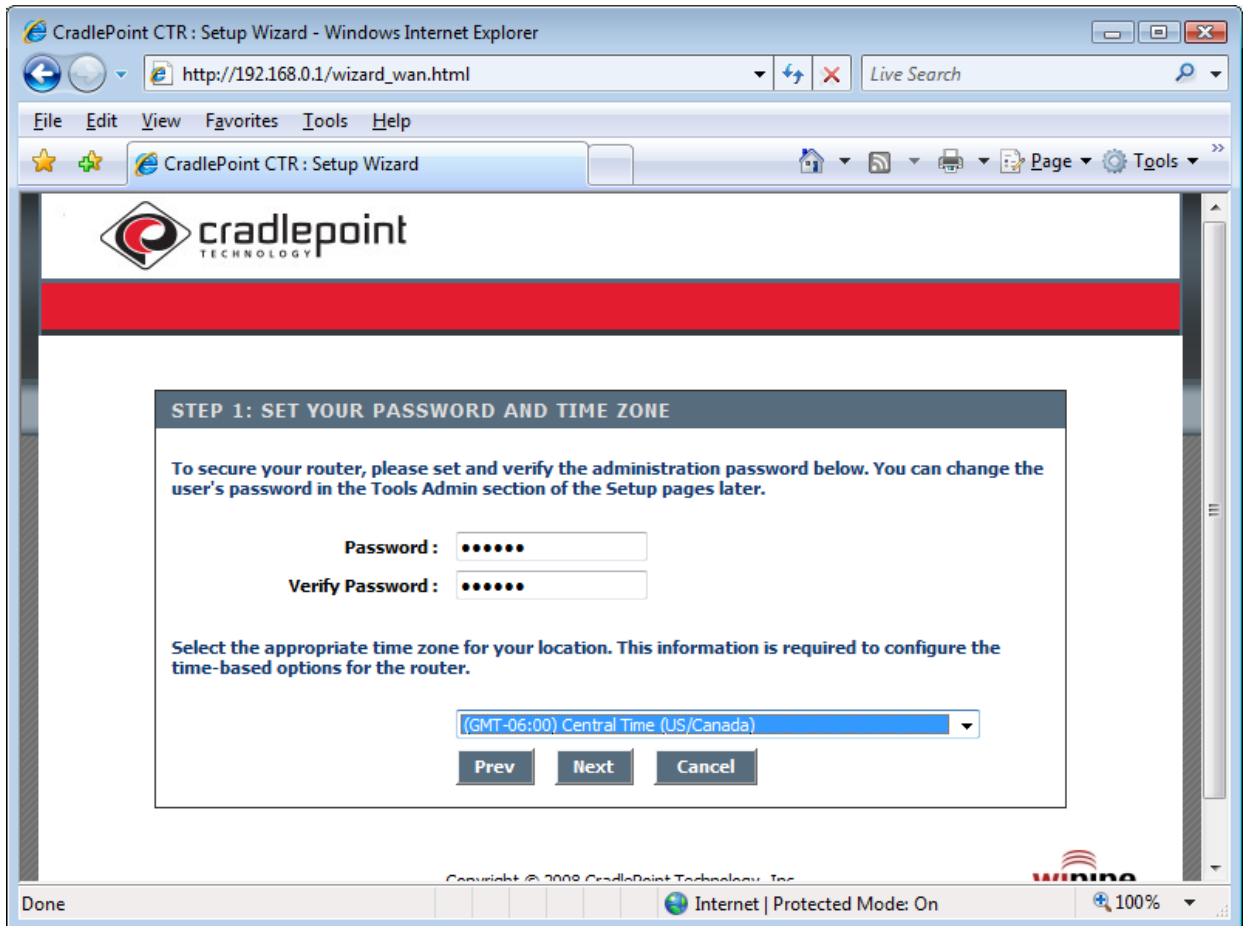
7. To login to the router the Password is different. You will need to refer to the MAC Address on the bottom of the device. Taking the last 6 characters of the address and typing those in and hitting the login button. If you do not get into the software verify your password.
8. This will bring you to the Internet Connection Wizard.



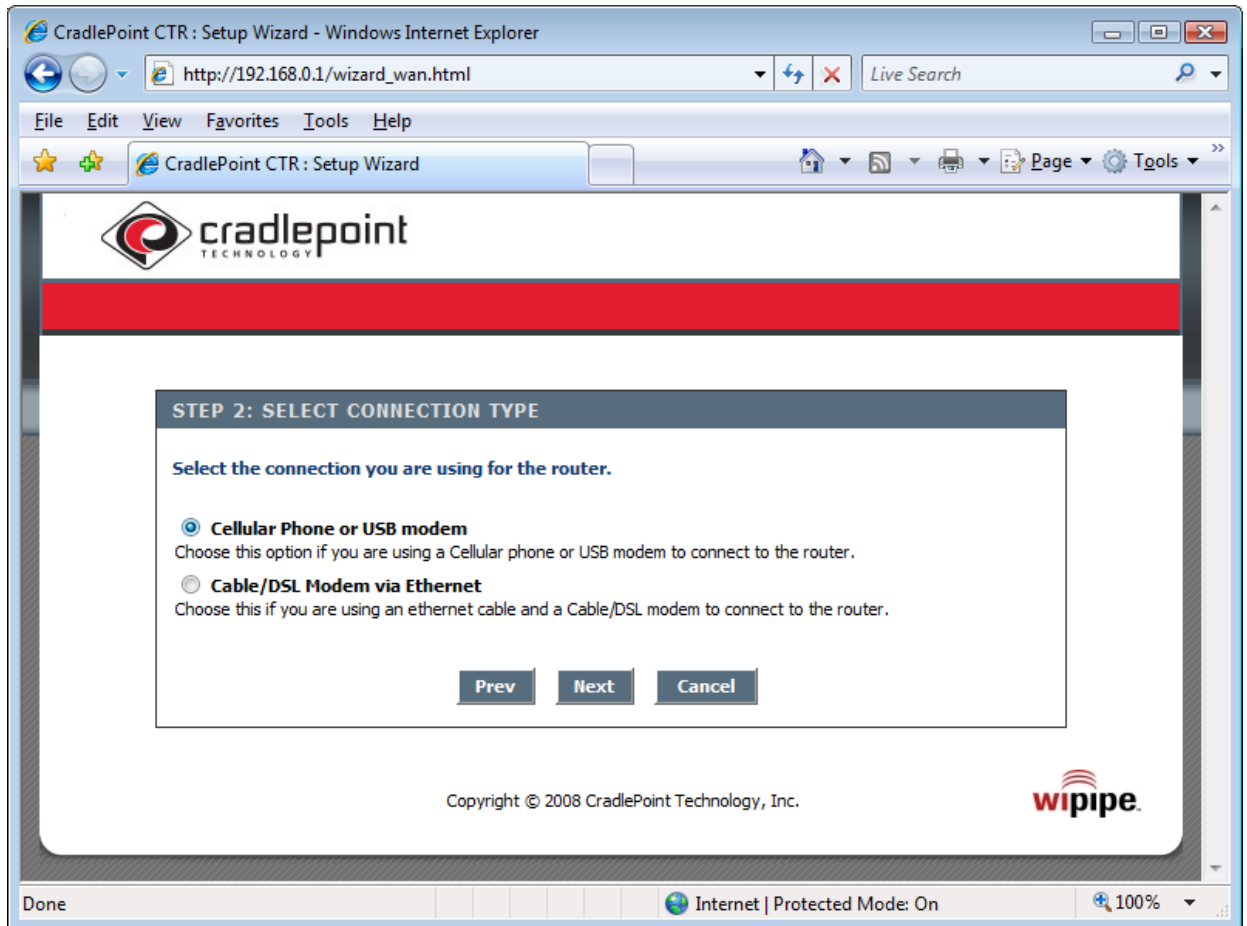
9. Click on the Launch Internet Connection Setup Wizard.



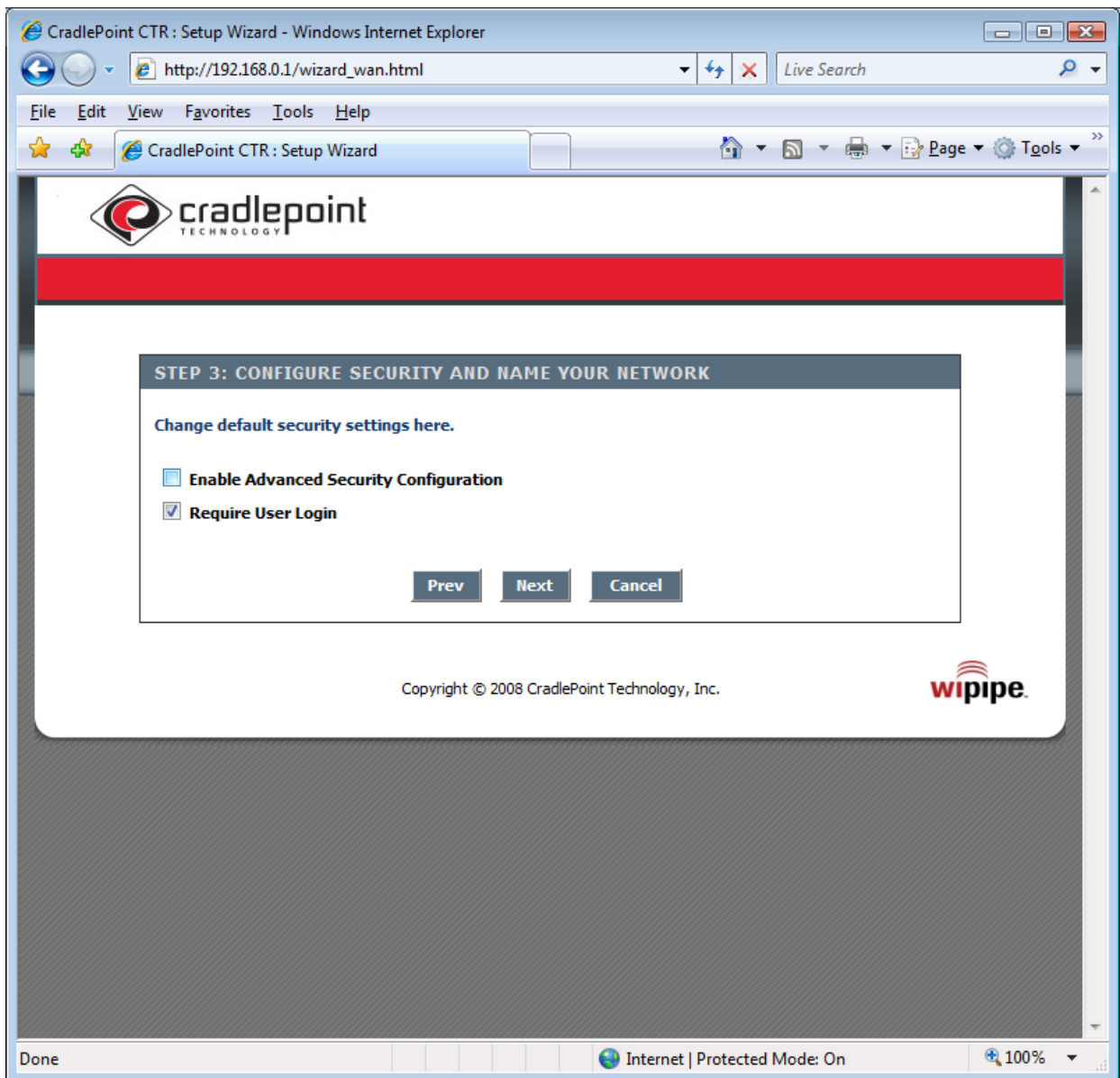
10. The Setup Wizard screen it tells you the steps that you will need to perform to complete the initial setup of the wireless router. Click on Next to continue.



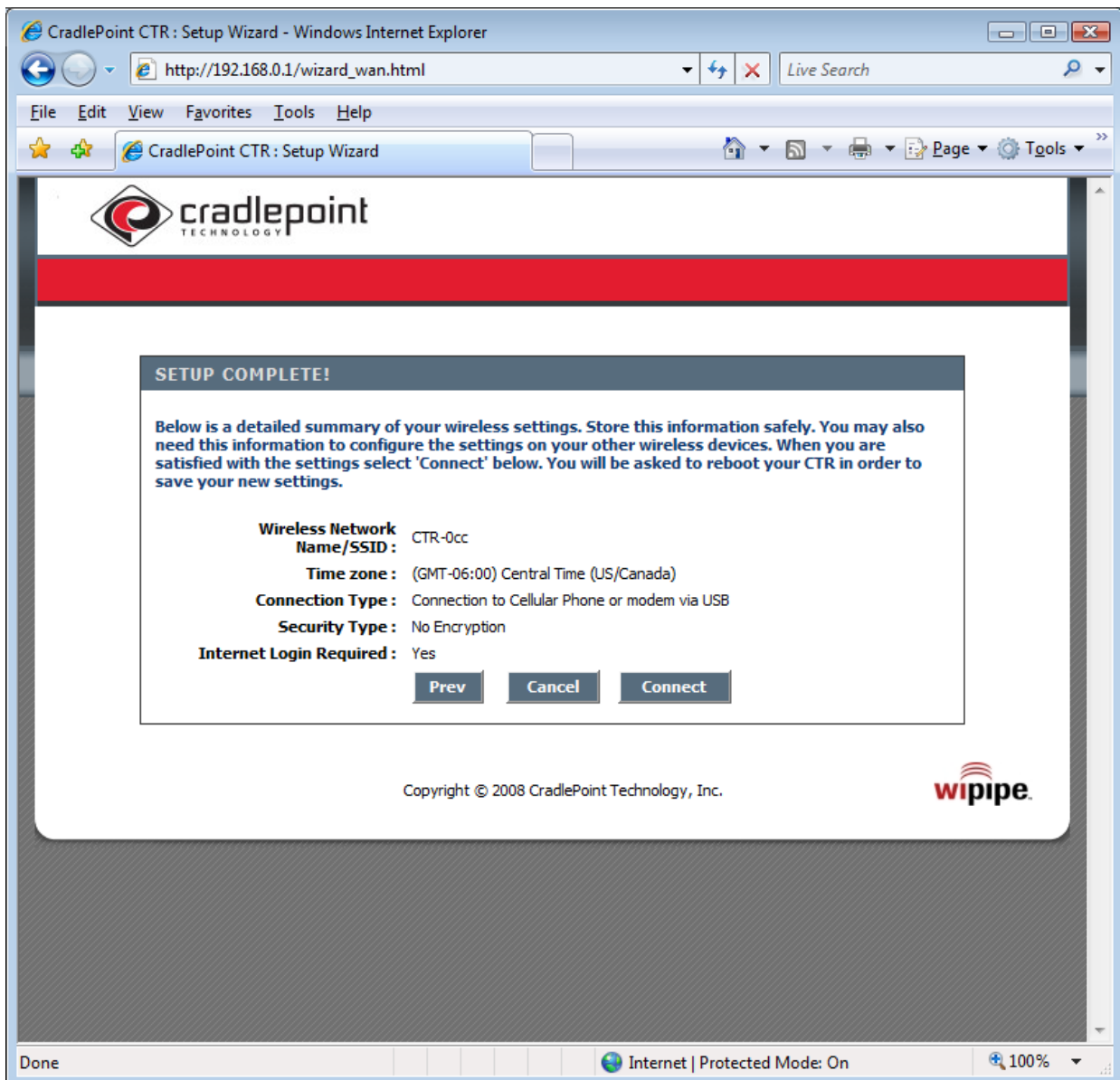
11. Setting a password and time zone screen. This screen allows you to create a unique password for your wireless router. You will want to set the correct time zone, this is important for any video that you want to have time stamps on. Once completed click on NEXT to continue.



12. Select Cellular Phone or USB Modem. Using the defaults at this point we have configured the wireless router to use the Wireless Broadband devices listed in Chapter 2. Click on NEXT to continue.



13. Configure security and name your network screen. This screen allows you to change the name of the router and increase the type of security for wireless with WEP or WPA (stronger encryption, requiring that any computer that connects to the router, to be known either by a special passphrase or a MAC Address. Make sure that the Require User Login box is checked and click on NEXT to continue.

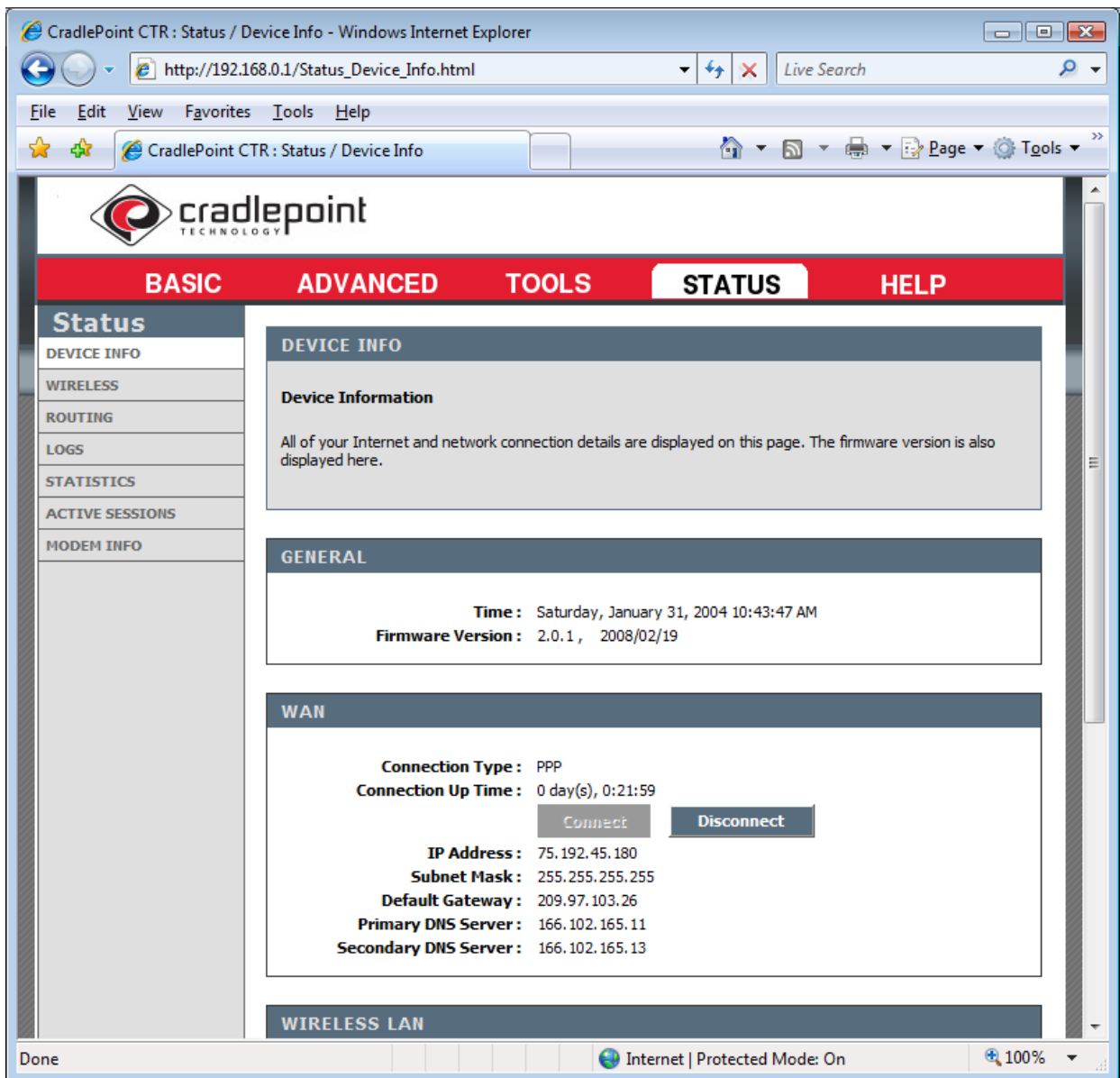


14. This completes the initial setup of the wireless router. Attach your Wireless Broadband device and click on Connect. This will cause the router restart and save the settings.
15. There are some specific settings that we need to setup once the router has rebooted. The next sections will give you the steps needed to complete that task.
16. Reconnect and login to the router as outlined in steps 1- 7.
17. After login click on STATUS. This will bring you the Device Info screen.
18. You want to write down the information that is located in the IP Address line.

\_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_

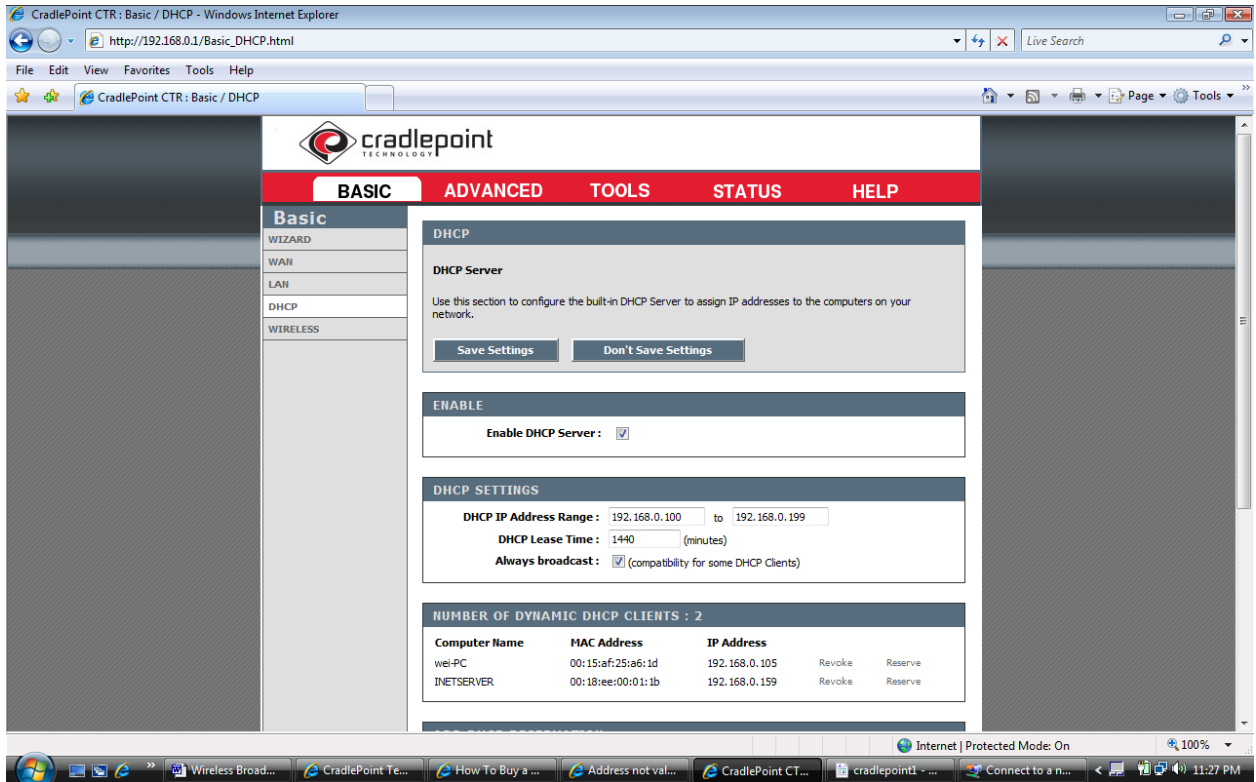
This information is necessary in future steps and sections.



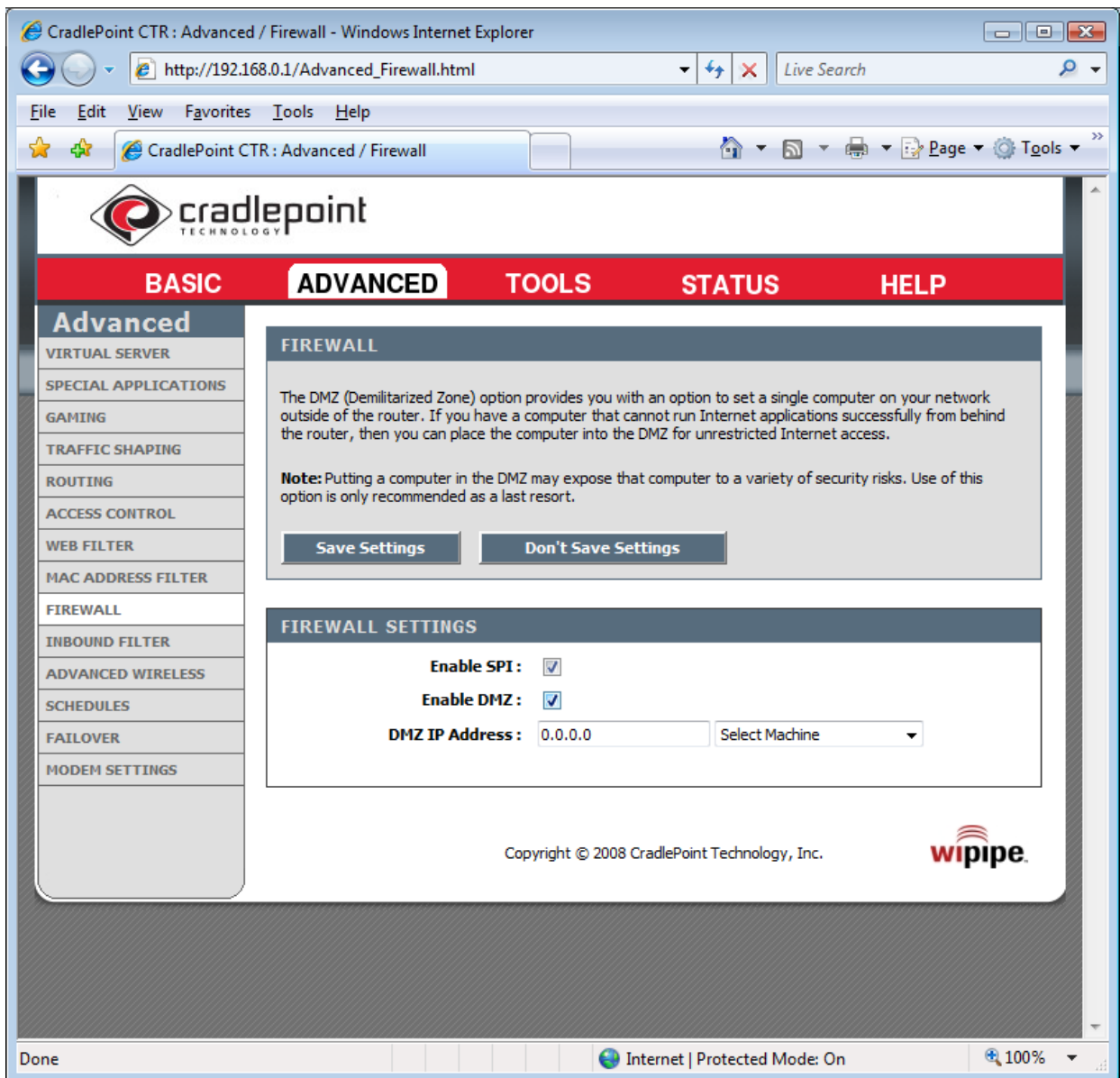


19. Click on the Basic section and click on DHCP section. We want the IP Address listed for INETSERVER.

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20. Click on the tab ADVANCED and the section listed as firewall. Click on the Enable DMZ and on the drop down section where it says Select Machine. On this section hit the down arrow and scroll down to INETSERVER and select. This should change the DMZ IP Address, if it doesn't take the information from step 19 and type it into the address box.

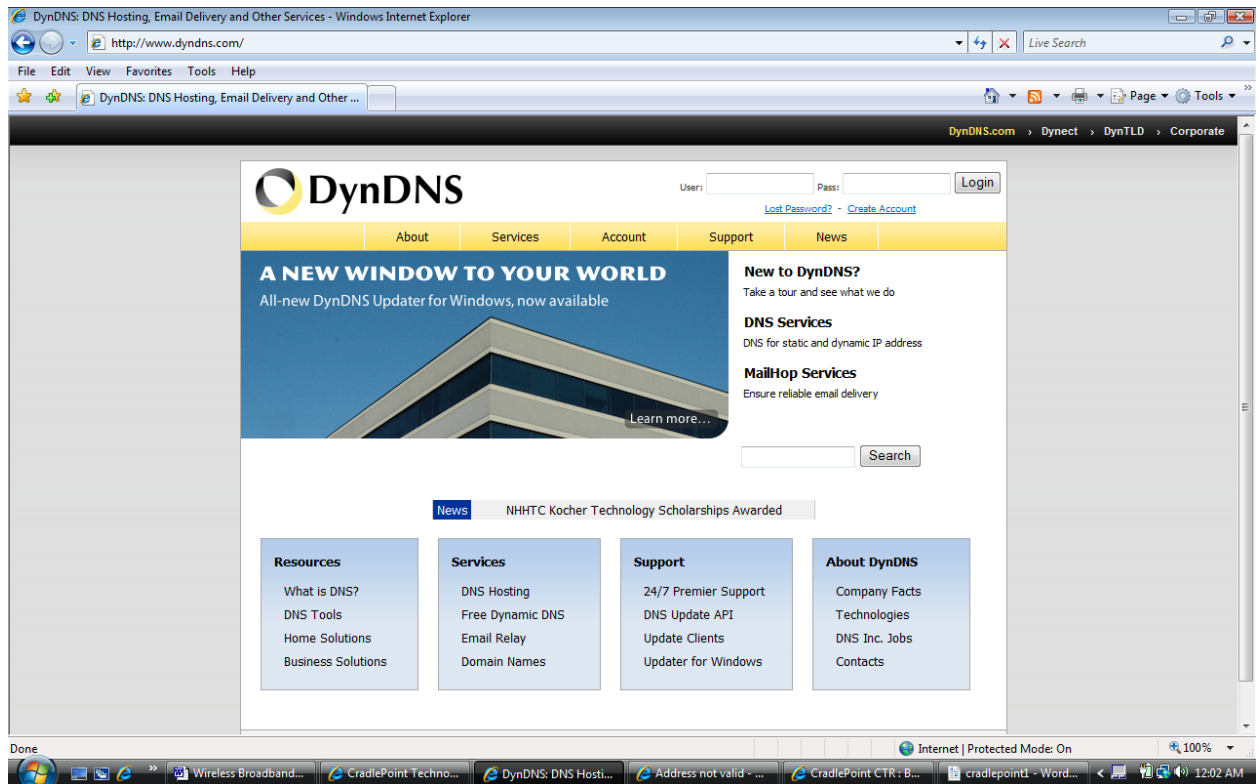


That concludes the basic router setup and we are ready to move on to the next section which is how to setup the Dynamic DNS, for our purposes we will use the DynDNS service.

## Creating a Dynamic DNS Account

We are using the service of DynDNS for our purposes of this example. Most of the services that are available will be pretty close to the same type of setup and information required. For accounts that will require more than 5 unique DNS names you will need to sign up for an account.

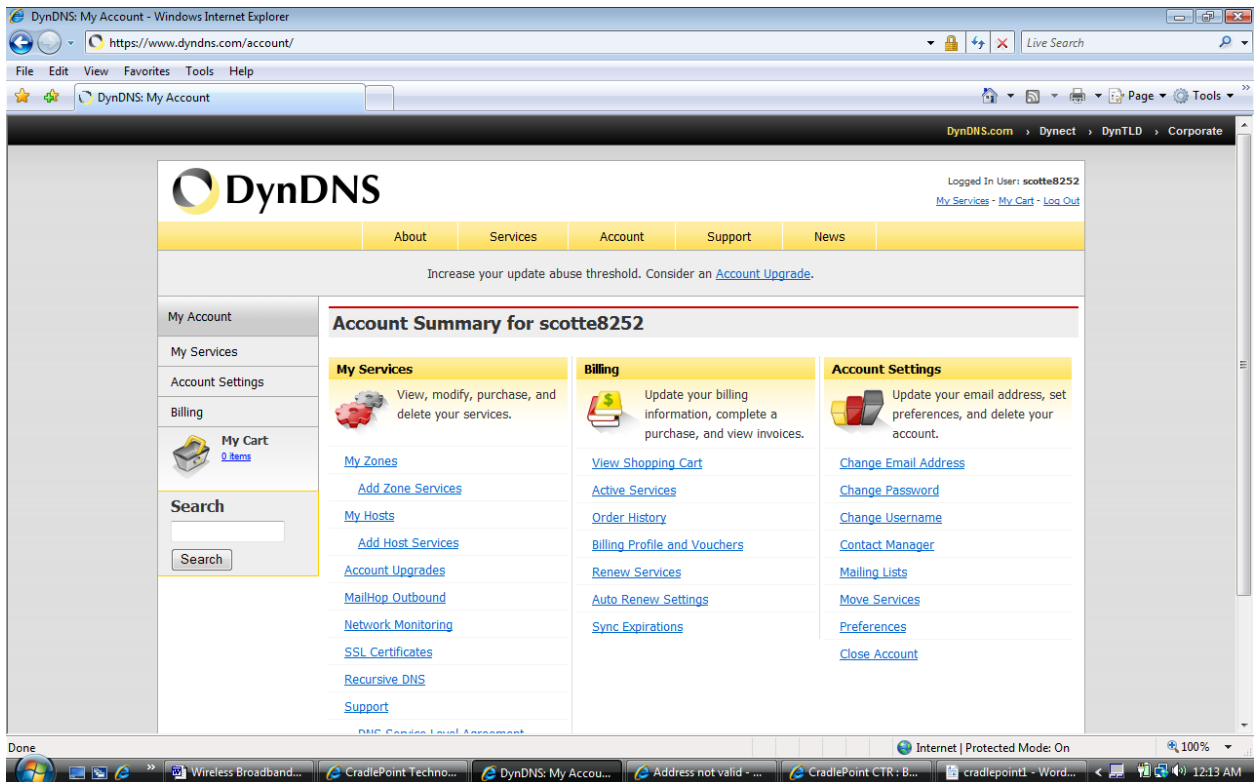
1. Open Internet Explorer and in the address line type
2. <http://www.dyndns.com> and hit the enter key. This will take you to the following screen.



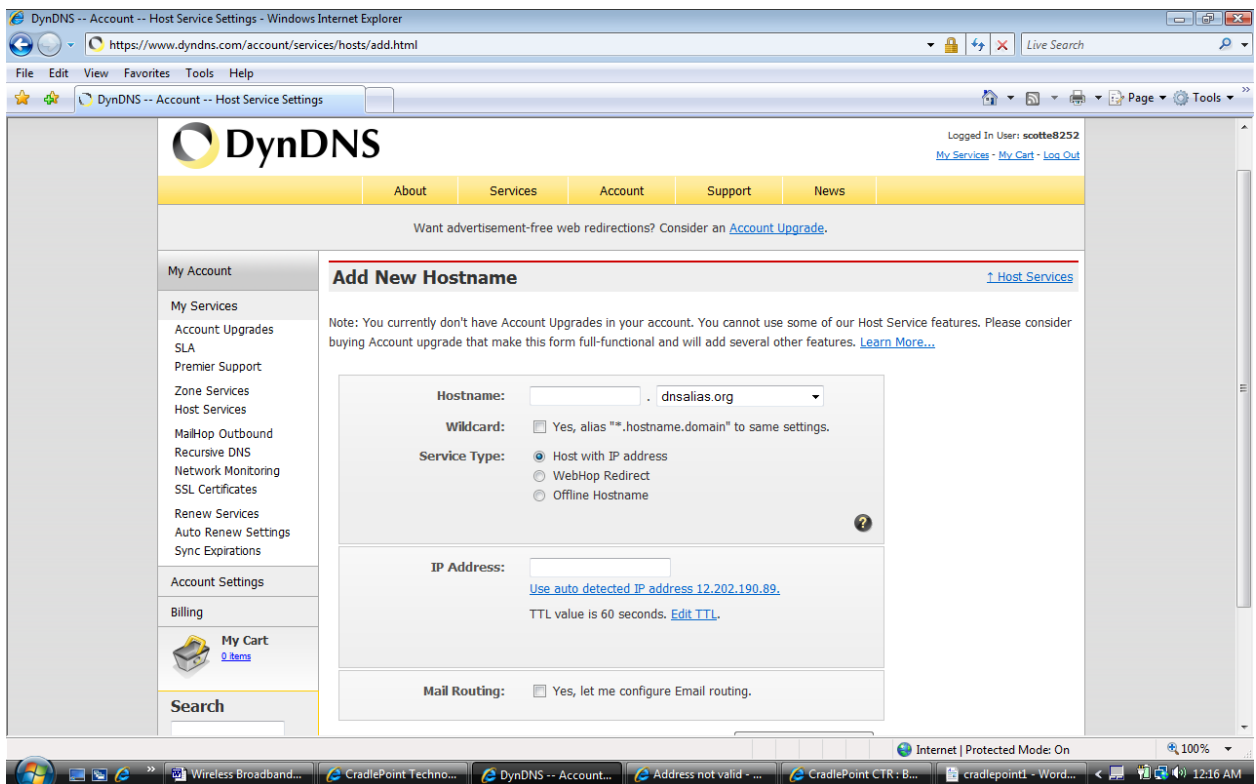
3. Click on Create Account.

4. Fill out all required information. Once you have completed that you will receive an email with further instructions on how to activate your account.

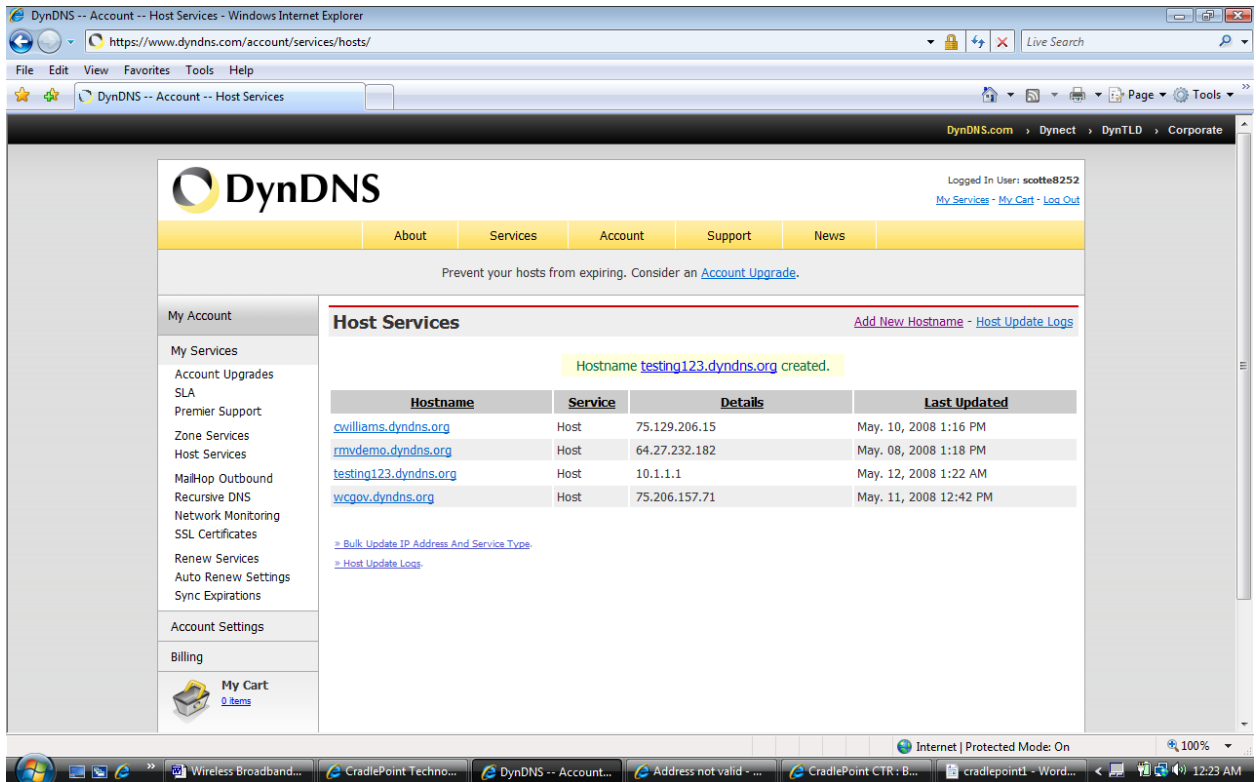
We will jump ahead as if you have already received your email and are at the point to login and setup your 1<sup>st</sup> Dynamic DNS Account.



## 5. Click on Add Host Services



6. Create a name you would like to call the host and type it into the Hostname box, click on the down arrow until you reach the one called dyndns.org.
7. Service Type needs to be set to Host with IP address.
8. Under the IP Address box type in the number that you wrote down from page 17. Make sure the Mail routing box is unchecked. Then click on the Create Host button at the bottom of the page.

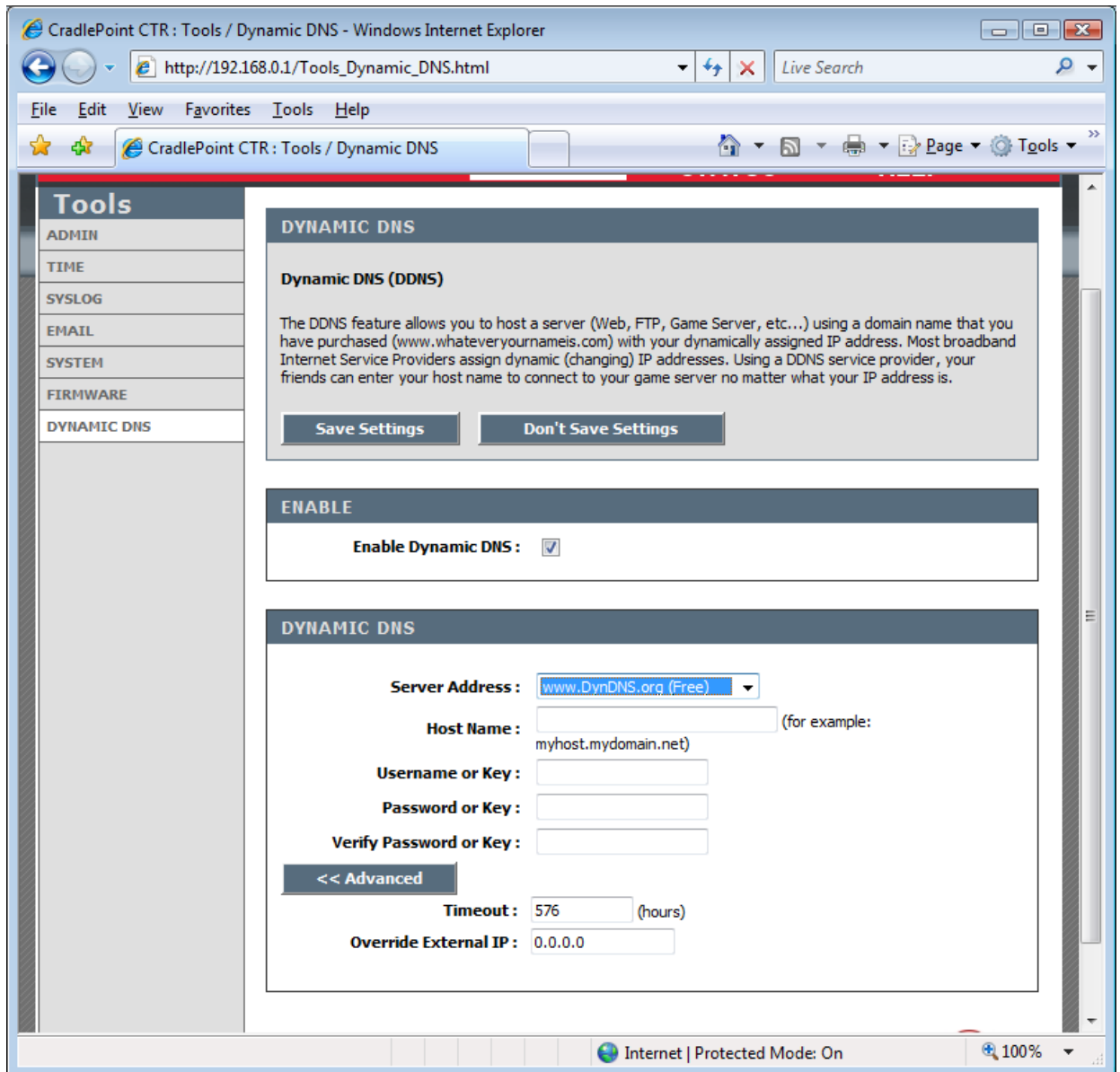


The screenshot shows the DynDNS account page in a Windows Internet Explorer browser. The page is titled "DynDNS -- Account -- Host Services" and the URL is "https://www.dyndns.com/account/services/hosts/". The user is logged in as "scotte8252". The page has a navigation bar with links for About, Services, Account, Support, and News. A message at the top says "Prevent your hosts from expiring. Consider an Account Upgrade." The left sidebar contains a "My Account" menu with options like My Services, Account Upgrades, SLA, Premier Support, Zone Services, Host Services, MailHop Outbound, Recursive DNS, Network Monitoring, SSL Certificates, Renew Services, Auto Renew Settings, Sync Expirations, Account Settings, and Billing. The main content area is titled "Host Services" and includes a link to "Add New Hostname - Host Update Logs". A green message states "Hostname testing123.dyndns.org created." Below this is a table of existing hosts:

Hostname	Service	Details	Last Updated
<a href="http://cwilliams.dyndns.org">cwilliams.dyndns.org</a>	Host	75.129.206.15	May. 10, 2008 1:16 PM
<a href="http://rmvdemo.dyndns.org">rmvdemo.dyndns.org</a>	Host	64.27.232.182	May. 08, 2008 1:18 PM
<a href="http://testing123.dyndns.org">testing123.dyndns.org</a>	Host	10.1.1.1	May. 12, 2008 1:22 AM
<a href="http://wcgov.dyndns.org">wcgov.dyndns.org</a>	Host	75.206.157.71	May. 11, 2008 12:42 PM

Below the table are links for "Bulk Update IP Address And Service Type" and "Host Update Logs". The bottom of the page shows the Windows taskbar with several open applications and the system clock displaying 12:23 AM.

9. Last step to complete the setup so the information can be seen by your computer and on the internet. You will need to login into the wireless server again. Open Internet Explorer and in the address line type <http://192.168.0.1> and login again.



10. Enter the information that you created on the Dyn dns website, making sure that you include the username and your password so that the site will update with any changes in the IP address.
11. Save settings and close Internet Explorer.
12. Check your work at this point by opening Internet Explorer and type in the address line your newly created host name. It should look something like this <http://abc123.dyndns.org> if it is correct you will be able to see the internet version of I-net Secureview.



## Configure I-net Secureview

There are 2 sections for this software. There is the computer based version and the Internet based version which is already built into the Video Surveillance Box.

### Computer Based Version of Secureview

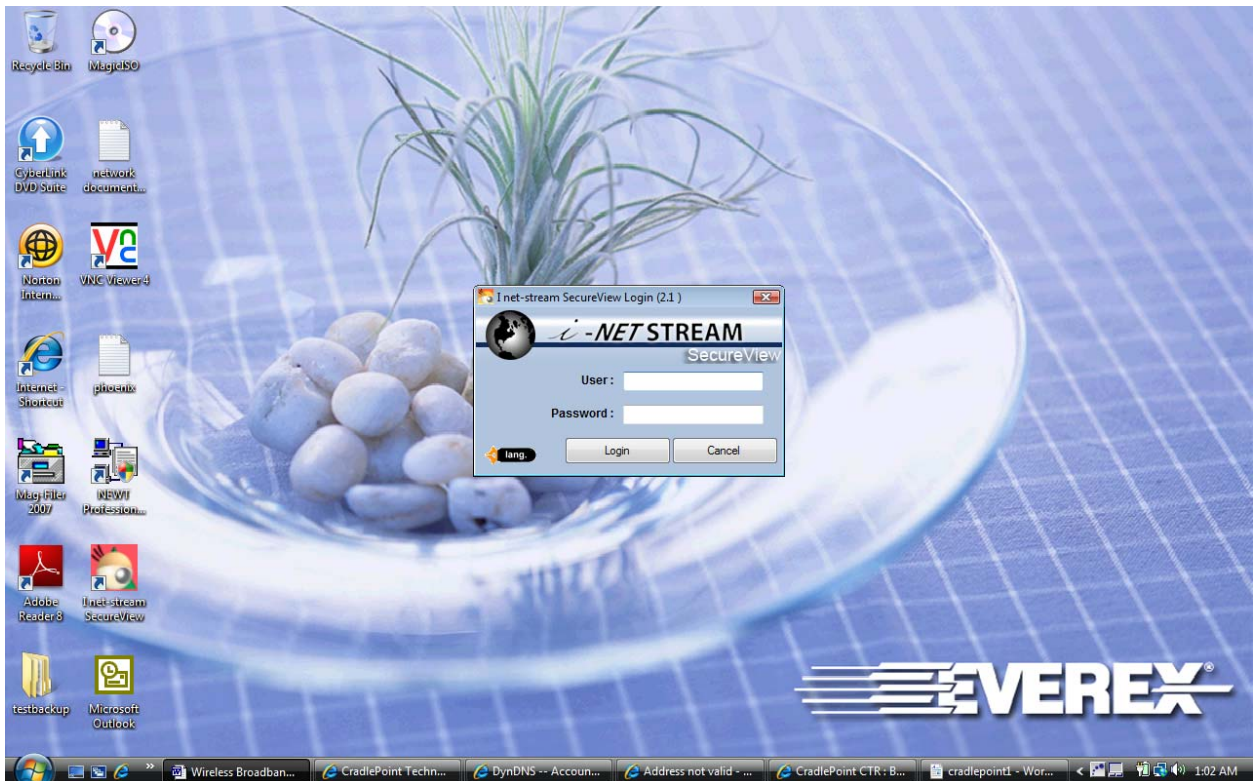
- Username – Admin
  - \* Password – inetcam

### Internet Version of Secureview

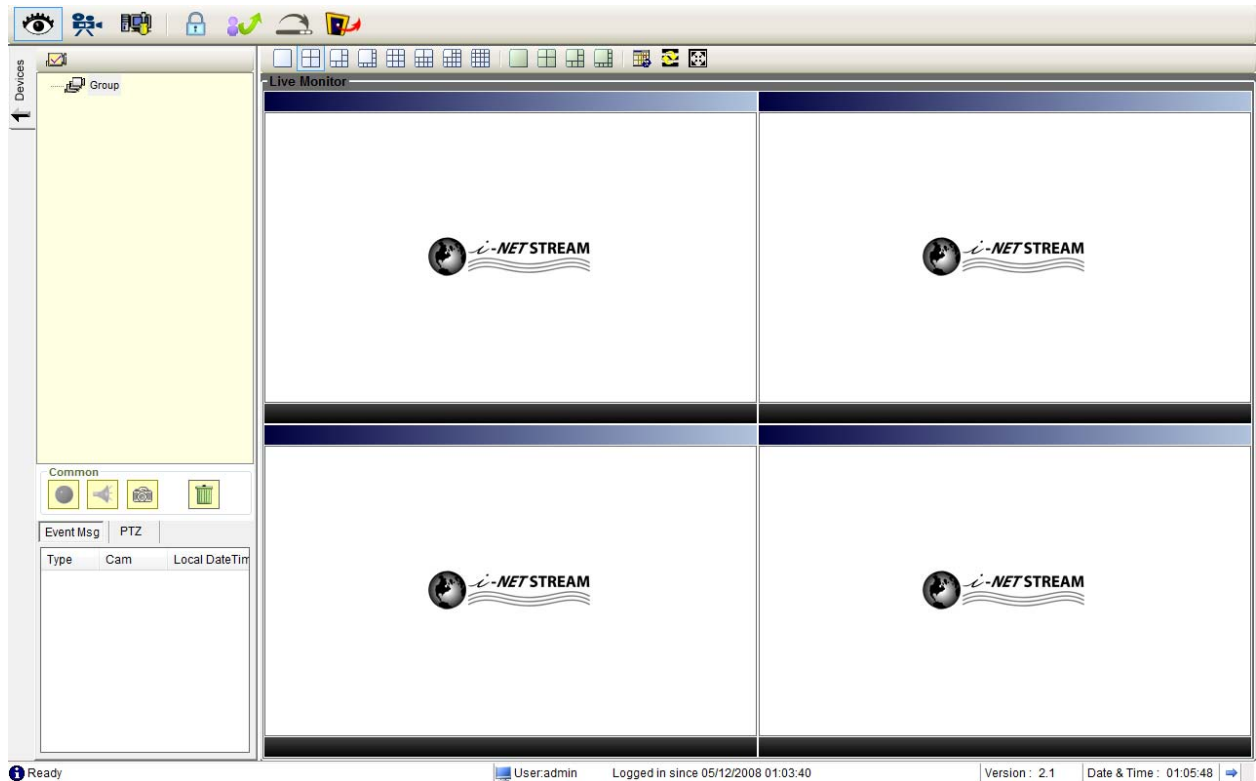
- Username – Admin
  - \* Password – inetsev

We will only cover the basic setup of getting one camera setup. To setup more then one camera you would just repeat the setup for each box you want to connect via the broadband wireless.

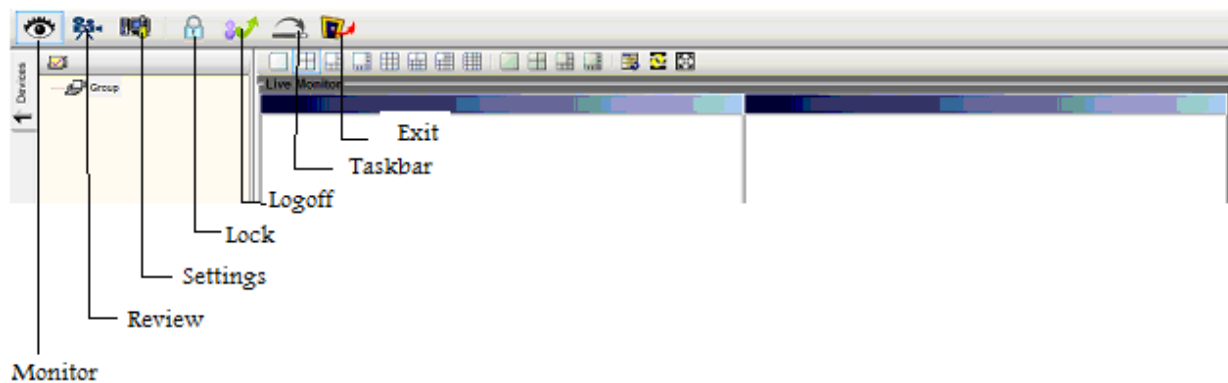
1. Install the software that was included with your system.
2. Follow all of the defaults to do the basic installation. This will create a I-net Secureview icon.
3. After clicking on the icon and starting the application login using the username and passwords provided above.



This is the opening screen that you will see when you first login. This is referred to as the monitor screen and gives you the ability to watch from one to thirty two cameras.



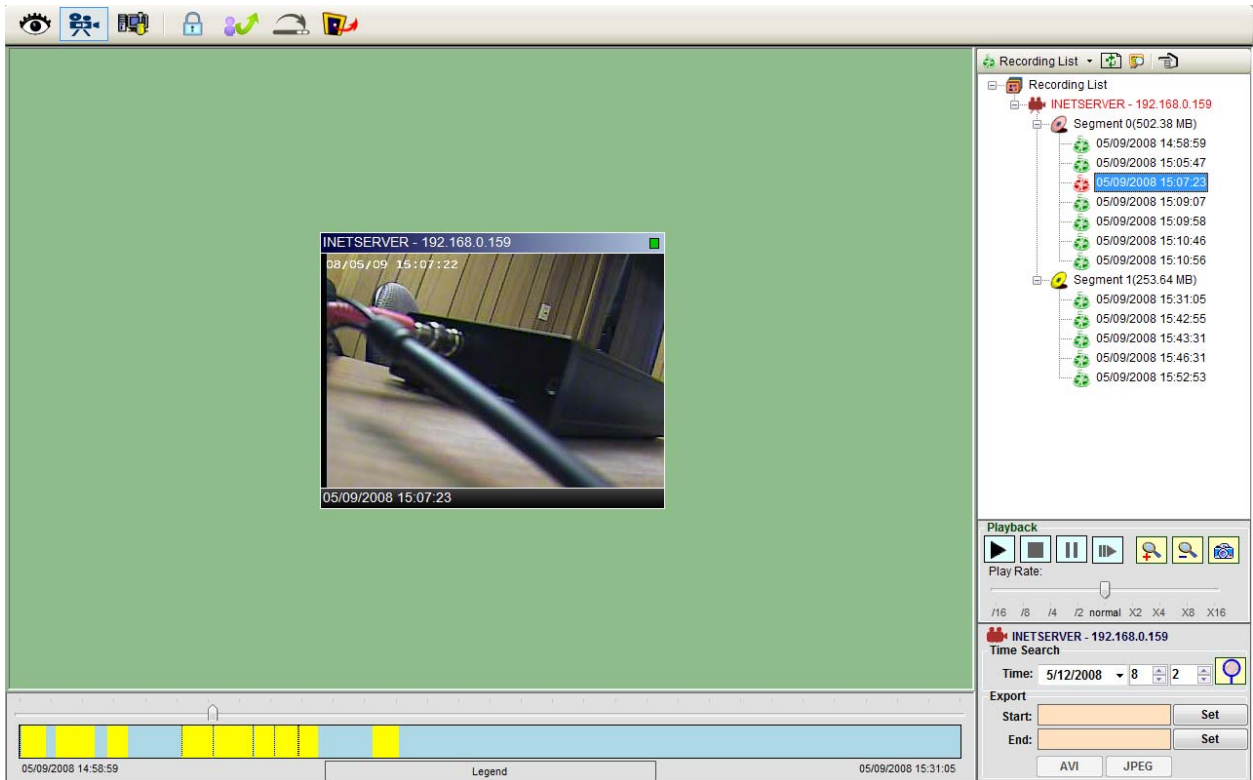
Here is a list of what the icons at the top of the screen do.



The three main buttons that we will review are the Monitor, Review and Settings.

Monitor is pretty self explanatory and gives you the ability to view live data. As well as monitoring any alarms that occur. The Group section allows you change which cameras that you can look at. This is done by dragging onto the viewing area.

Review / Playback



In this section you are able to review recordings that have been made by any triggers or alerts that have been setup. By choosing the segment based on the time and hitting the play button on the Playback section you can review what occurred. The Playback section also allows you to take a snapshot of a frame for printing.

## Settings

This is where the important part of the configuration occurs. You will need to do several things to get your camera online.

Device Information

Site Name :

Group Name :

IP Address :

HTTP Port :

Device Type :

Image Format :

Application Event Notification

Motion Buzzer : ☐ Motion Email :

Sensor Buzzer : ☐ Sensor Email :

Alarm Focus : ☐ Disk Full Email :

Connect Mode :

Recording Scheduler

☐ Disable recording scheduler for this channel

Primary Schedule

☐ Continuous Mode

☐ Event Mode

☐ Motion Alarm ☐ Sensor Alarm

Secondary Schedule that is outside the Primary Schedule

☐ Disable

☐ Continuous Mode

☐ Event Mode

☐ Motion Alarm ☐ Sensor Alarm

Device Recording

Record Mode

☒ Continuous Mode

☐ Event Mode

☐ Motion Alarm ☐ Sensor Alarm

Recording Quota

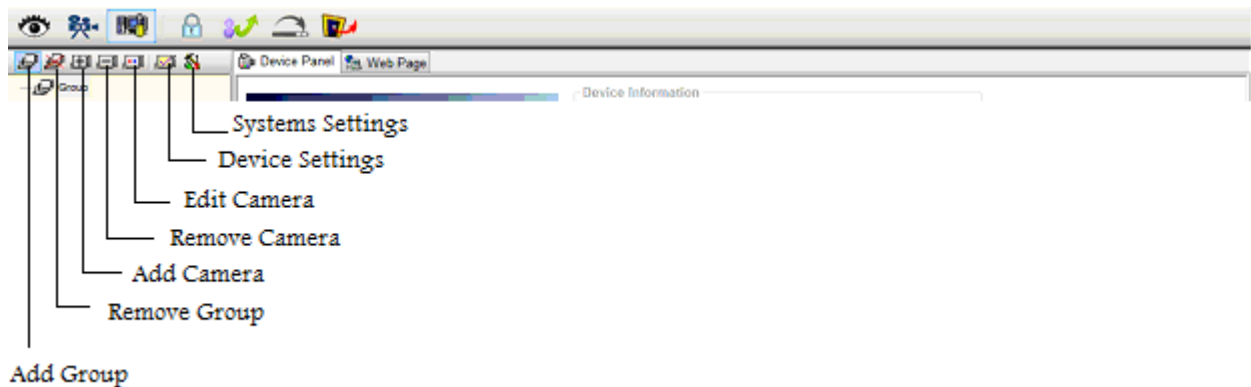
Free Recording Quota:  %

Use Recording Quota:  0 %

( 100/1000 Mb )

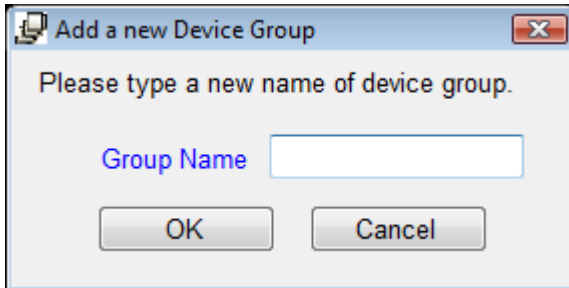
Speed Dome Controller :

Below is a listing of the secondary menu items. We will go thru them and show you what needs to be done to see your cameras.

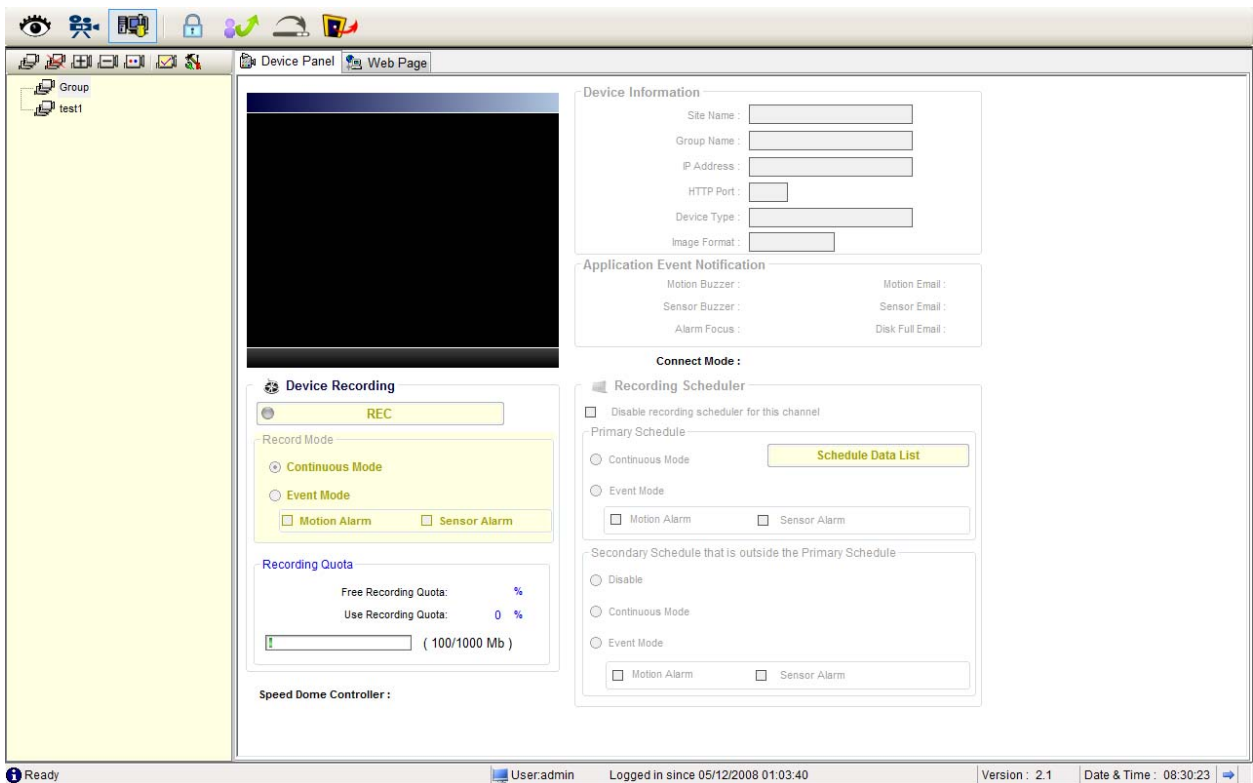


### Steps to add a camera.

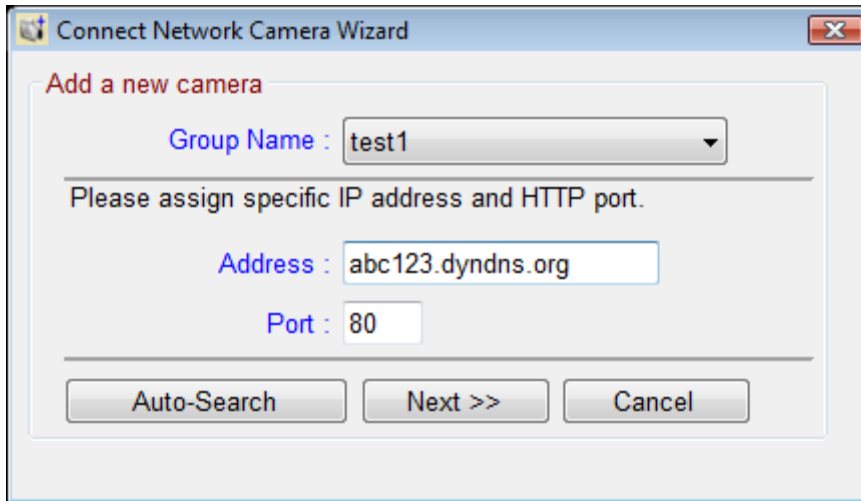
1. Click on add group
2. Name the group so it will be easy to recognize for in the future. You can create multiple groups and add cameras to the specific groups.



3. Once you have type in the group name hit ok and it will add it to the group list on the left hand side of the screen.

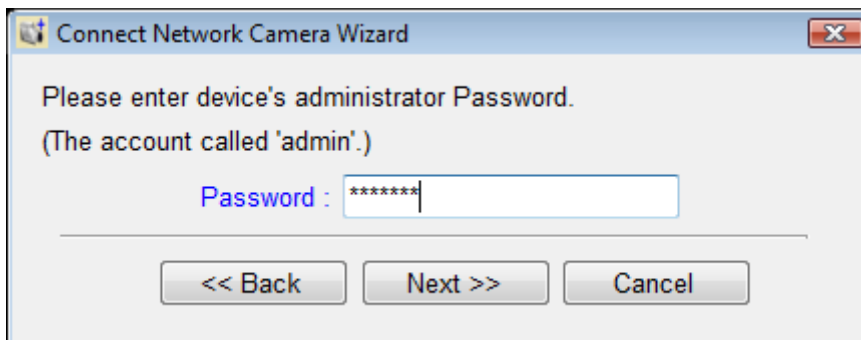


4. The next icon in the list is delete the group. To remove a group click on the group name and hit this icon to remove.
5. Next we will add a camera. By clicking on the add camera icon it will prompt you for which group you would like to add it to. Click on the down arrow and select the group.



The screenshot shows the 'Connect Network Camera Wizard' window. The title bar reads 'Connect Network Camera Wizard'. The main heading is 'Add a new camera'. Below this, there is a 'Group Name' dropdown menu with 'test1' selected. A horizontal line separates this from the next section, which says 'Please assign specific IP address and HTTP port.' Below this text, there is an 'Address' text box containing 'abc123.dyndns.org' and a 'Port' text box containing '80'. At the bottom, there are three buttons: 'Auto-Search', 'Next >>', and 'Cancel'.

6. This is where the information that you created when you setup an account at the DYNDNS website is important. You will want to place that information into the address section. Click on the NEXT button to continue.
7. The system will prompt you for the password. This password should be inetsev. Click on NEXT.




The screenshot shows the 'Connect Network Camera Wizard' window at the password entry step. The title bar reads 'Connect Network Camera Wizard'. The main text says 'Please enter device's administrator Password. (The account called 'admin'.)'. Below this, there is a 'Password' text box with '\*\*\*\*\*' entered. At the bottom, there are three buttons: '<< Back', 'Next >>', and 'Cancel'.

**Connect Network Camera Wizard**

We have found this network camera with specified  
IP Address : wcgov.dyndns.org

Device Type  
60SV12VA

MAC Address (S/N)  
00:18:EE:00:01:13



Please enter a site name of channel and connect mode which can be used in the software application.

Site name : INETSERVER


Connect Mode : ☒ LAN ☐ Internet

<< Back Next >> Cancel

- Once the camera is found you can change a couple of things. Main item would be the site name, it is easier to set a name that is specific to the site as opposed to leaving it the default. Click NEXT to continue.

Device Panel Web Page

Group test1 INETSERVER - wcgov.dyndns.org



05/12/2008 08:44:48 131.13 K bps

**Device Information**

Site Name : INETSERVER  
Group Name : test1  
IP Address : wcgov.dyndns.org  
HTTP Port : 80  
Device Type : 60SV12VA  
Image Format : JPEG

**Application Event Notification**

Motion Buzzer : Yes Motion Email : No  
Sensor Buzzer : Yes Sensor Email : No  
Alarm Focus : Yes Disk Full Email : No

Connect Mode : LAN

**Device Recording**

START REC

Record Mode

☒ Continuous Mode  
☐ Event Mode

☐ Motion Alarm ☐ Sensor Alarm

Recording Quota

Free Recording Quota: 97 %  
Use Recording Quota: 3 %  
( 0 / 1072 Mb )

Speed Dome Controller : Disabled

**Recording Scheduler**

☐ Disable recording scheduler for this channel

Primary Schedule

☒ Continuous Mode ☐ Event Mode

☐ Motion Alarm ☐ Sensor Alarm

Secondary Schedule that is outside the Primary Schedule

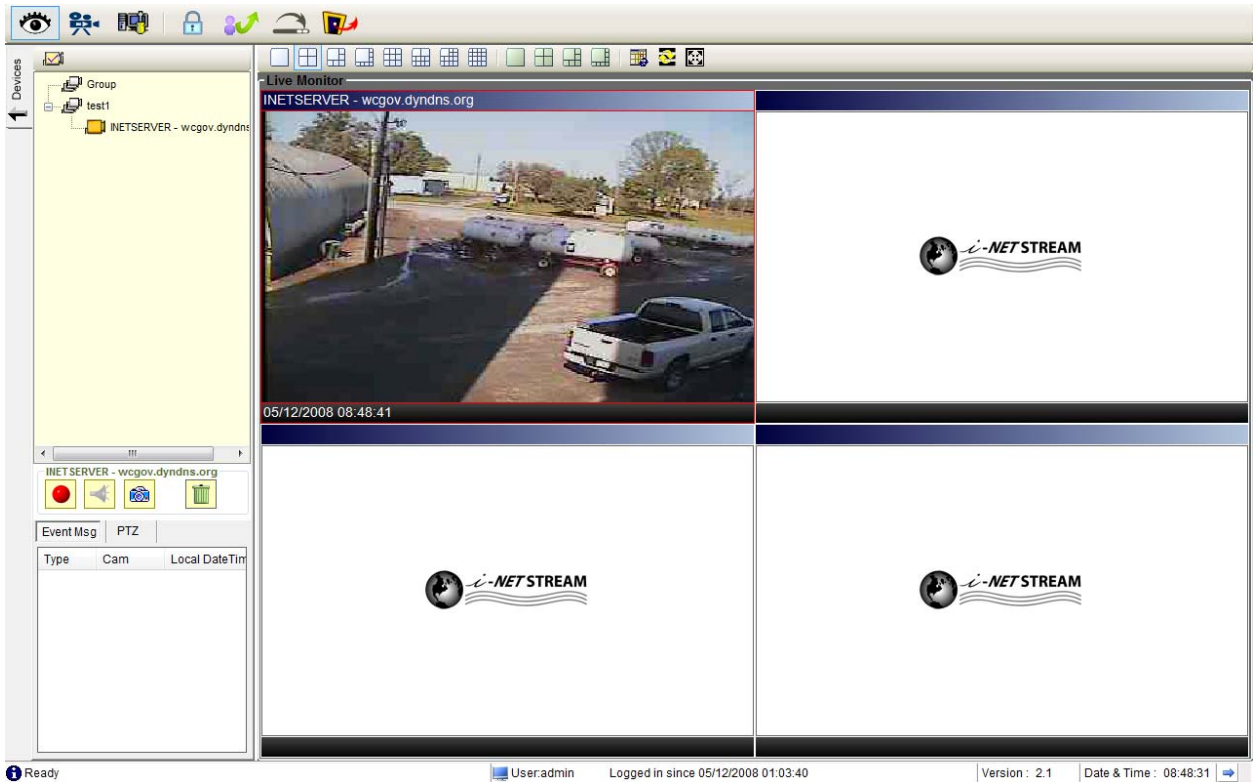
☒ Disable ☐ Continuous Mode ☐ Event Mode

☐ Motion Alarm ☐ Sensor Alarm

Ready User:admin Logged in since 05/12/2008 01:03:40 Version : 2.1 Date & Time : 08:44:38

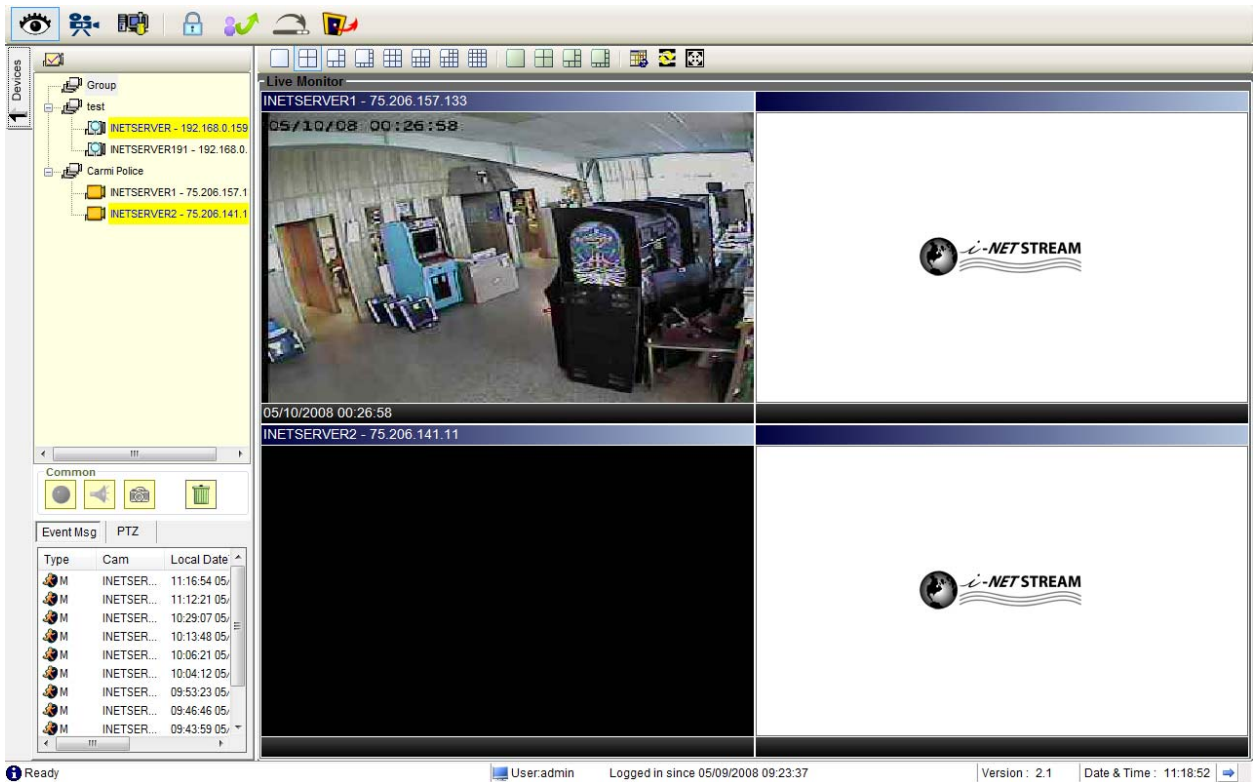


9. This now shows all of the information populated. At this point you are able to setup triggers, drag and drop it into the monitor screen and record video at this point. If you are looking for a continuous recording you can at this point click on the START REC button and this will begin to record.



This is an example of a single group with one camera.





Here is an example of multiple groups with several different cameras assigned to the different groups. On the bottom left of the screen you can see several listings there. This is where event triggers are listed and can be reviewed under the playback screen.

This concludes the basic configuration and setup of a single camera on this Secureview software.

## Chapter 6:

### **Support:**

Support should come from the Local Dealer that you made the purchase from.

### **Basic Troubleshooting:**

#### **If the unit does not power up.**

Make sure you are using the Power Adapter that was provided with unit.

#### **Can't Login to wireless network.**

The SSID should be the LAST 6 Digits of the Routers MAC Address.

#### **LAN port does not work.**

Make sure the switch is set to the correct location.

#### **Can't connect to Internet through Air Card.**

Make sure you have activated your account and Air Card.

#### **Who to contact in case of problems.**

Should you need further help that your dealer cannot provide. you can email [support@watchfirevideo.com](mailto:support@watchfirevideo.com)

## **Regulatory Information**

### **FCC Statement**

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

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

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## **Chapter 7:**

### **Warranty:**

Is provide for 1 year from date of purchase: You must fill out your Warranty Card for this to be in affect.