

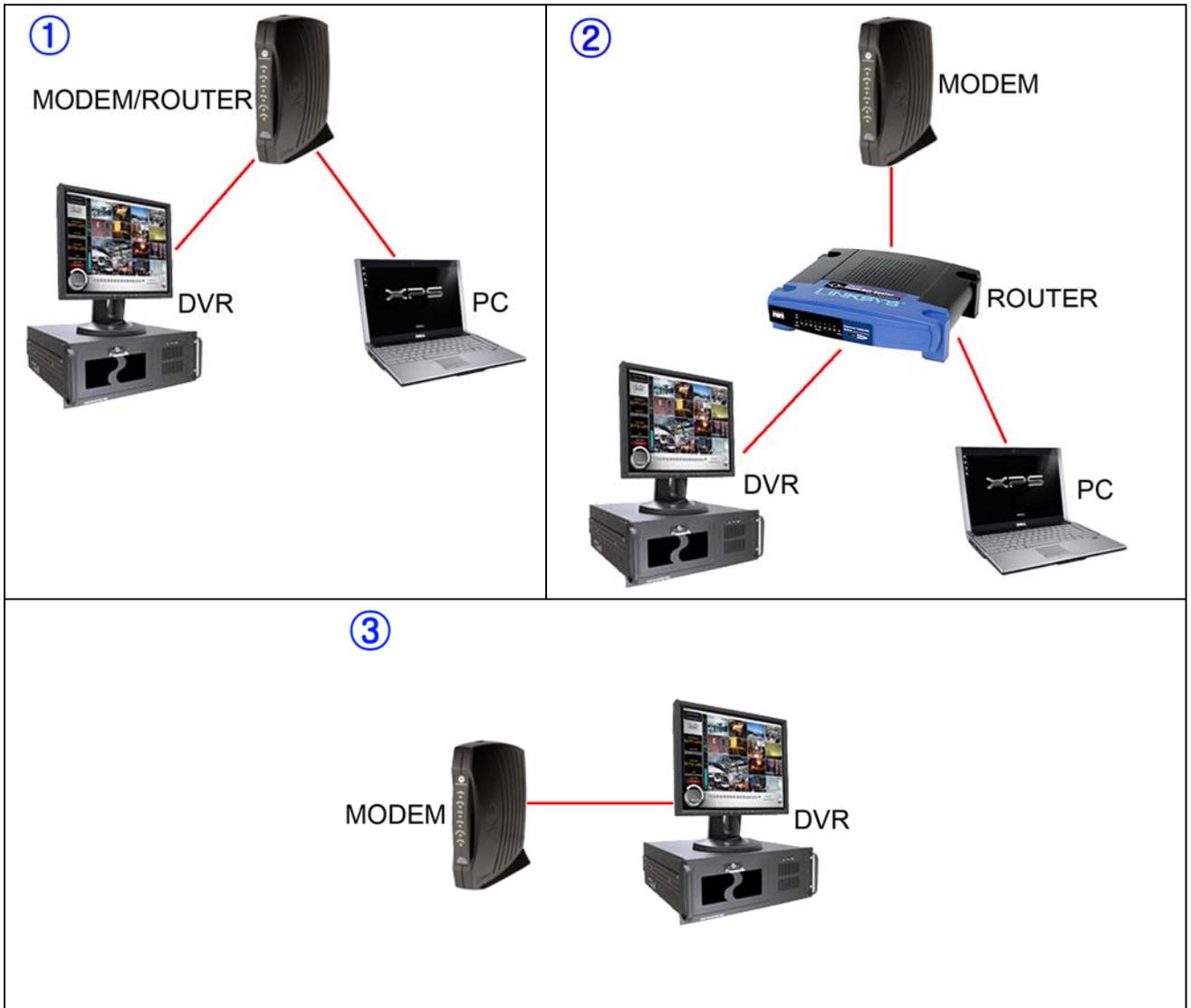
DYNAMIC IP

Because Dynamic IP changes every few hours, weeks, months, or sometimes year, we need to use a DDNS server to track the new IP when it changes.

There are many DDNS servers that you can choose, but we recommend **DynDNS.com**

The first thing we need to know is the **physical wiring of Network**

We recommend the following options.



Now that we know the type of Network connection we only need to configure the Network settings.

DIAGRAM 3

In this case you won't need to open any ports.

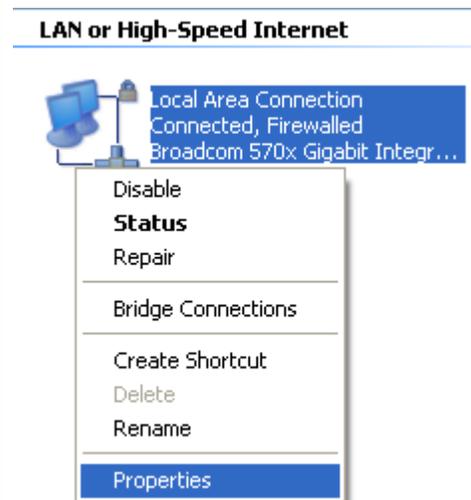
Since it's DYNAMIC IP you will need to register in DynDNS.com, if you don't know how to use it, **at the end you will find explanation about DynDNS.COM**

NETWORK SETTING ON DVR

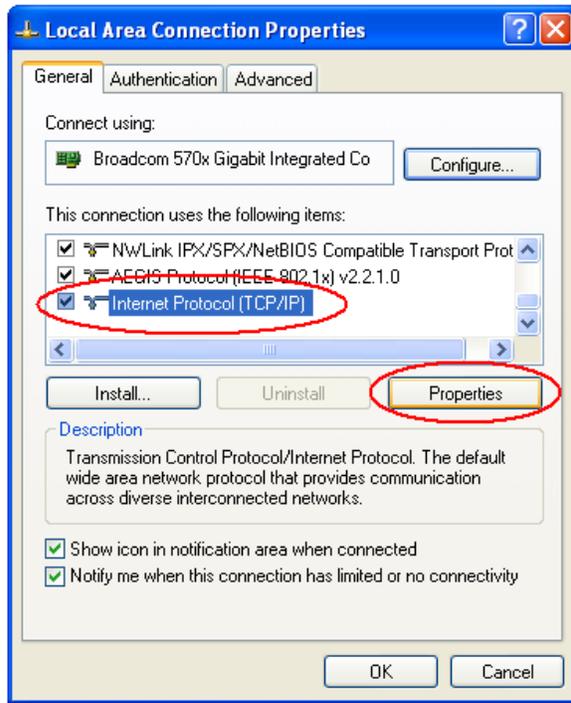
1) On WINDOW desktop: **Right click MY NETWORK PLACES -> click PROPERTIES**



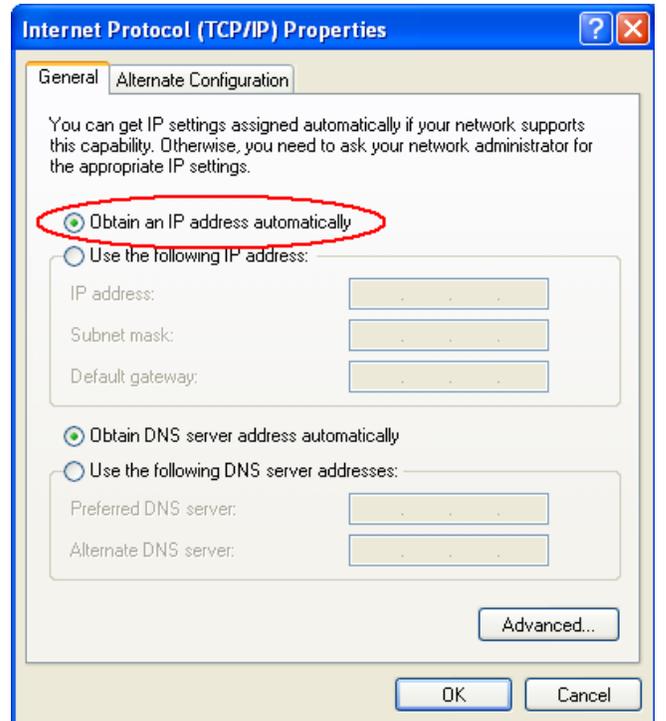
2) In Network Connections: **Right click Local Area Connection -> click PROPERTIES**



3) In Local Area Connection Properties (on General tab): Select Internet Protocol (TCP/IP) -> click PROPERTIES



4) In Internet Protocol (TCP/IP) Properties (on General tab): Select "Obtain an IP address automatically".



WHAT IP DO I USE TO CONNECT TO DVR?

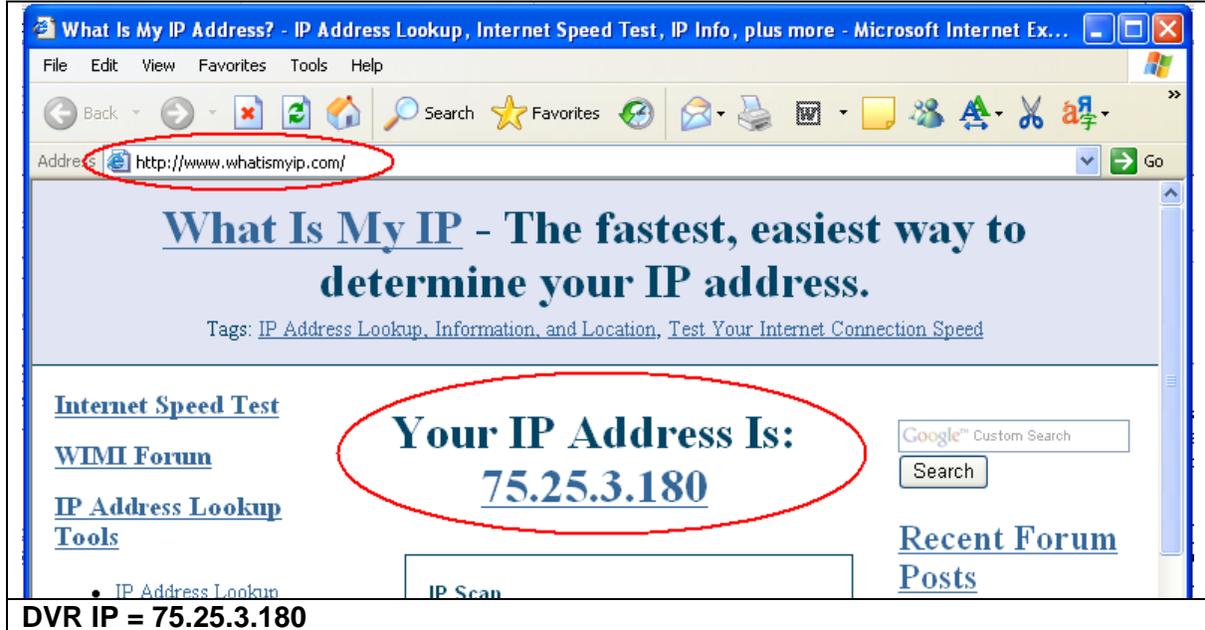
We do the following steps to connect from OUTSIDE

Since we are using DYNAMIC IP we don't know the current IP address that ISP (Internet Service Provider) is giving us.

We will do the following steps to find out.

From DVR or PC

Open IE (Internet Explorer) browser -> type: "www.whatismyip.com"



Another way to connect to DVR is by using DDNS server.
Explanation is found below at the end, DynDNS.COM

DIAGRAM 1 & 2

Since we have DYNAMIC IP, the NETWORK settings for the diagram 1 & 2 will be pretty much similar. In this case we will need to open ports for the DVR.

Let's use Diagram 2 as example.

NETWORK SETTING ON DVR

We need to link a fixed IP Address from DVR to ROUTER.

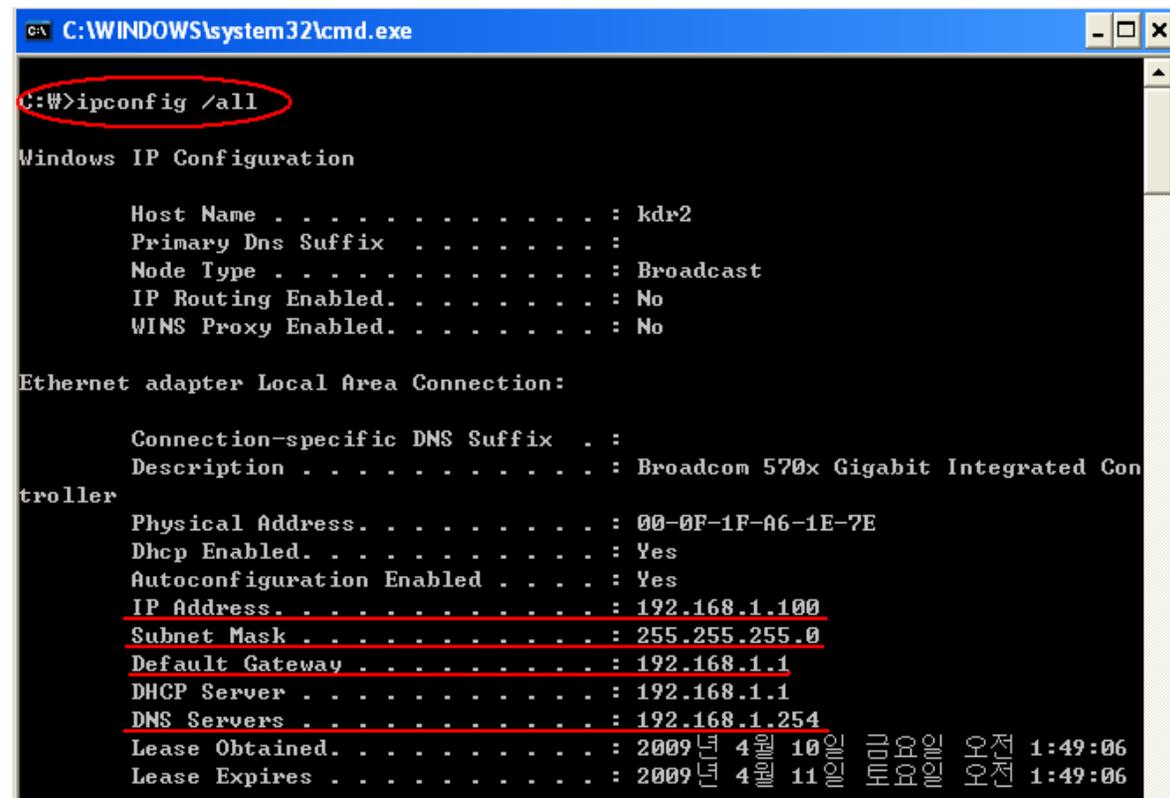
In this example we use EYEMAX 9000 SERIES.

From DVR do the following:

1) From WINDOWS desktop: **START -> RUN -> type "cmd" -> OK**



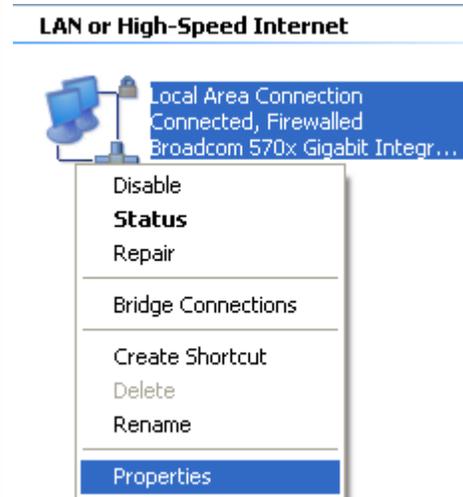
2) On Command windows type “**ipconfig /all**” – **ENTER**. Write down the following information:
IP ADDRESS (ex. 192.168.1.100)
SUBNET MASK (ex. 255.255.255.0)
GATEWAY (ex. 192.168.1.1)
DNS (ex. 192.168.1.254)



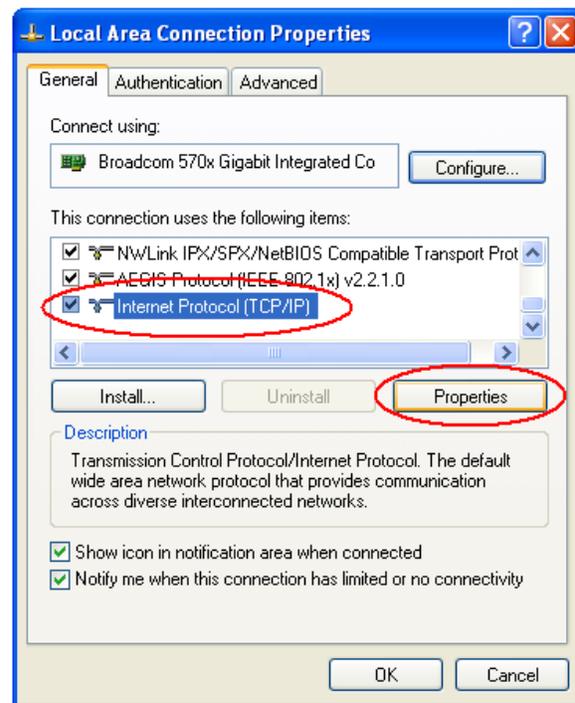
3) On WINDOW desktop: **Right click MY NETWORK PLACES -> click PROPERTIES**



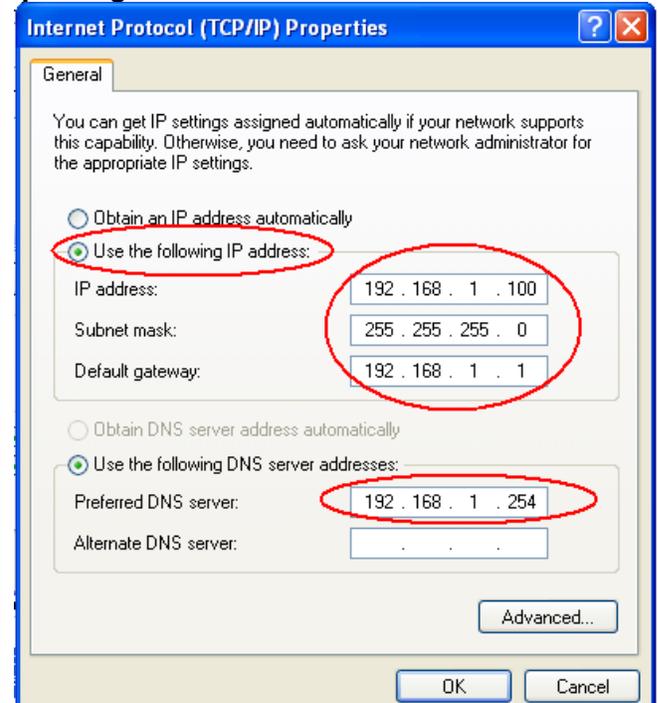
4) In Network Connections: **Right click Local Area Connection -> click PROPERTIES**



5) In Local Area Connection Properties (on General tab): **Select Internet Protocol (TCP/IP) -> click PROPERTIES**



6) In Internet Protocol (TCP/IP) Properties (on General tab): **Select "Use the following IP address", and enter the information from ipconfig /all.**



7) Now that DVR is connected to ROUTER using fixed IP, we need to open some ports linking to DVR IP which is 192.168.1.100

The EYEMAX 9000 Series use the following PORT number as default:

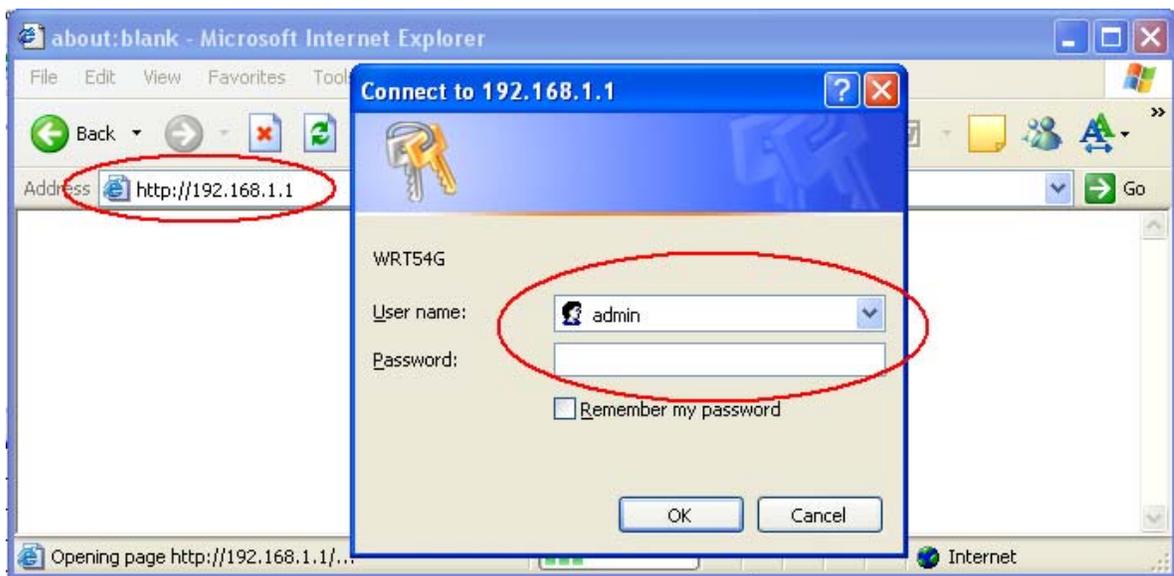
Client port = 9091~9112

Web port = 80

Every DVR use different PORT numbers, usually it can be found in NETWORK MENU of DVR. If you can't find the PORT of your DVR, please read the DVR manual or call at UNIX CCTV(www.unixcctv.com)

8) Open **IE browser** and type the current **GATEWAY**, which in this case is "192.168.1.1" to access to **ROUTER**.

If you don't know the username and password for the router, please contact to the router's company to find out.



9) The Port Forwarding Menu for **LINKSYS – WRT54G** it's located in:
Applications & Gaming -> Port Range Forward

The port-forwarding menu varies depending on router but the general rule is same, which is linking the Port number to a specific IP address.

In this case we are linking the **Ports 9091~9112** and **80** to **IP address 192.168.1.100**

The screenshot shows the Linksys WRT54G router's web interface. The top navigation bar includes 'Applications & Gaming', 'Setup', 'Wireless', 'Security', 'Access Restrictions', 'Applications & Gaming', 'Administration', and 'Status'. The 'Port Range Forward' menu item is circled in red. Below the navigation bar, the 'Port Range Forward' configuration page is displayed. It features a table with the following data:

Application	Start	End	Protocol	IP Address	Enable
DVR	9091	to 9112	Both	192.168.1.100	<input checked="" type="checkbox"/>
DVR-WEB	80	to 80	Both	192.168.1.100	<input checked="" type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>

NETWORK SETTING ON PC

The steps are same as “**NETWORK SETTING ON DVR**”. But we **skip steps 7, 8 and 9**, since we don't need to open any ports for PC.

The only thing that will change is the IP address. Since the DVR is using the IP 192.168.1.100, we will use 192.168.1.101 for PC, or any other number close to it.

WHAT IP DO I USE TO CONNECT TO DVR?

We use the following IP to connect remotely.

If you are trying to connect from LAN (LOCAL AREA NETWORK)
DVR IP = 192.168.1.100

If you are trying to connect from OUTSIDE

Since we are using DYNAMIC IP we don't know the current IP address that ISP (Internet Service Provider) is giving us.

We will do the following steps to find out.

From DVR or PC

Open IE (Internet Explorer) browser -> type: "www.whatismyip.com"

What Is My IP - The fastest, easiest way to determine your IP address.

Tags: [IP Address Lookup](#), [Information](#), and [Location](#), [Test Your Internet Connection Speed](#)

Your IP Address Is:
75.25.3.180

[Internet Speed Test](#)
[WIMI Forum](#)
[IP Address Lookup Tools](#)

Google™ Custom Search
Search

[Recent Forum Posts](#)

• [IP Address Lookup](#) [IP Scan](#)

DVR IP = 75.25.3.180

DynDNS.COM

Since DYNAMIC IP changes every few hours, months or sometimes year, we need to use DDNS (Dynamic DNS) server to keep updated when the IP changes.

Here are the steps to use DynDNS.com service.

1) Open IE browser and type www.dyndns.com then click on "Create Account"

DynDNS.com: DNS Hosting, E-mail Delivery, VPS Hosting and Other Services - Microsoft Internet Explorer

Address: <http://www.dyndns.com/>

Enterprise > Registry > Home/SMB > Corporate

DynDNS.com
by Dynamic Network Services Inc.

User: Pass:

[Lost Password?](#) - [Create Account](#)

[About](#) [Services](#) [Account](#) [Support](#) [News](#)

2) Fill out account information, check "Privacy Policy", then "Create Account"

DynDNS.com - Account -- Account Registration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://www.dyndns.com/account/create.html>

Enterprise > Registry > Home/SMB > Corporate

DynDNS.com
by Dynamic Network Services Inc.

User: Pass:
[Lost Password?](#) - [Create Account](#)

About Services Account Support News

My Account
Create Account
Login
Lost Password?

Search

Create your DynDNS.com account

User Information

Username: ✓

Email: ✓ Activation instructions will be sent here.

Retype Email: ✓

Password: ✓ Strong

Retype Password: ✓

Mailing Lists (optional)

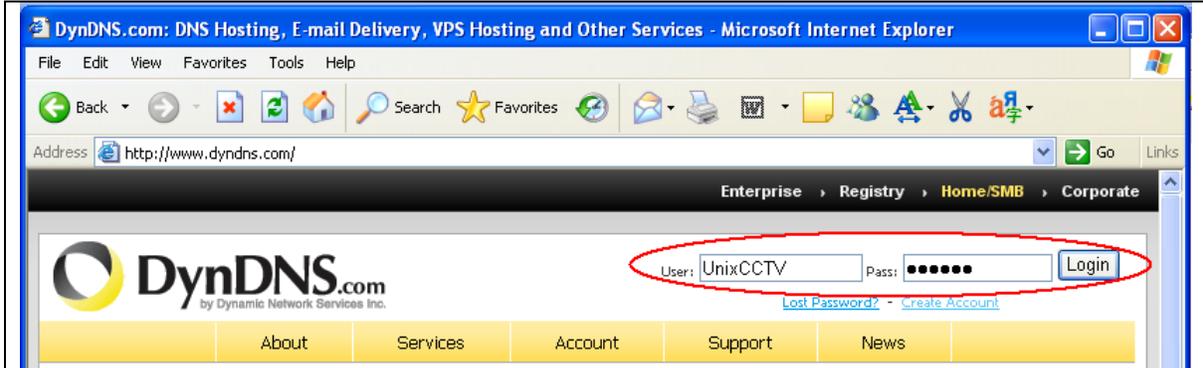
Acceptable Use & Privacy Policy

Privacy Policy:
We [do not sell](#) your account information to anyone, including your email address.

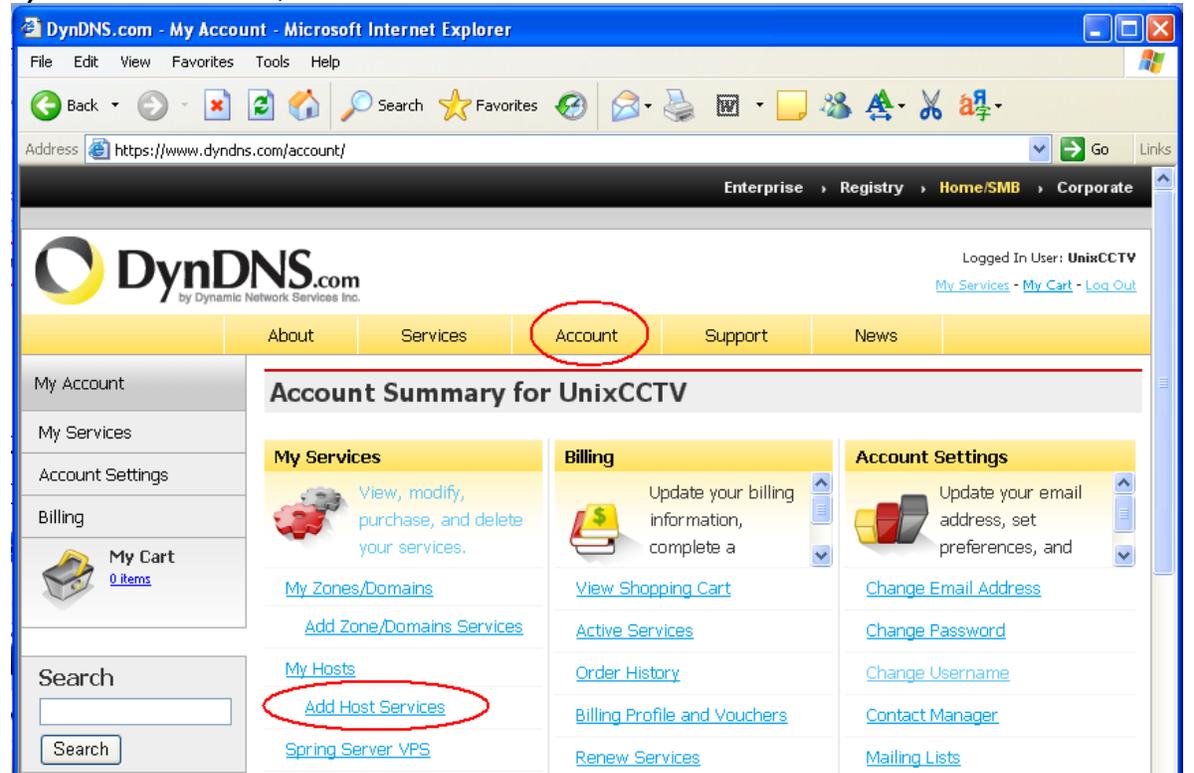
I agree to the [Acceptable Use Policy \(AUP\)](#), and my mailing list subscriptions.

3) An email will be sent to your email address.
Go to your email to activate your account.

4) Login by using username and password that you have created.



5) Under ACCOUNT, choose “Add Host Services”



6) Type a Hostname, and choose a DDNS server. We recommend you to use “dyndns.org”

Click on “Use auto detected IP address” or type manually on “IP Address” if you know the current IP address.

Add New Hostname

[↑ Host Services](#)

Note: You currently don't have any active [Dynamic DNS Pro upgrades](#) in your account. You cannot use some of our Host Service features. Paying for an Dynamic DNS Pro upgrade will make this form fully functional and will add several other features.

Hostname: .

Wildcard: Create wildcard alias for "*.host.domain.tld"

Service Type: Host with IP address
 WebHop Redirect
 Offline Hostname

IP Address:
[Use auto detected IP address 75.25.3.180.](#)
TTL value is 60 seconds. [Edit TTL.](#)

Mail Routing: Yes, let me configure Email routing.

Create Host

7) Click on "NEXT" – "ACTIVATE SERVICES"

Host Services

[Add New Hostname](#) - [Host Update Logs](#)

Hostname	Service	Details	Last Updated
unixdvr.dyndns.org	Host	75.25.3.180	Apr. 13, 2009 3:22 AM

Now that we have created a hostname in DynDNS.com and linked to the current IP of DVR, every time when the IP changes they DynDNS.com will update the new IP address.

From our DVR-Client we type the hostname instead IP to connect to DVR as shown below.

Login Information

Server

Server Name : UnixDVR

Server Type : TCP/IP PSTN

IP Address : unixdvr.dyndns.org

Port No. : 9091 [Default]

Bandwidth : Auto Detection

Timeout : 180

User

User Name : admin

Remember Password

.....

OK Cancel

IMPORTANT ABOUT DynDNS.COM

For that DYNAMIC IP that changes very often we recommend you to download the Updater software that provides in DynDNS.com

DynDNS.com
by Dynamic Network Services Inc.

Logged In User: **UnixCCTV**
[My Services](#) - [My Cart](#) - [Log Out](#)

About Services Account **Support** News

Support

General Help
Account Help
Glossary
Update Abuse Policy
Contact Support
Update Clients

Here at DynDNS.com, we're well-known for our excellent support. Our support site contains an extensive archive of past problems and their resolution. There is non-service specific support in addition to support relating to each service.

Download Now
DynDNS® Updater (4.0.8)
Windows NT, 2000, XP, Vista, 7

[Previous Version \(3.1.0.15\)](#)