Networking Guide

Connecting the DVR to the network for remote viewing

Step 1.

Connect the DVR to your router via an Ethernet cable

Step 2.

Enter the DVR's network menu; please refer to the DVR manual on how to do so.

Step 3.

Set the DVR's IP address to static, this will stop the IP address from changing.

On some DVR's when you set the network type to Static the network details will appear as all zeros. If this happens you will need to manually enter the details. Please see the section at the end of this document for how to get the network details in this scenario.

Step 4.

Get the IP address from your DVR and make a note of the trigger port (this will usually be port 80 by default).

The image below may differ from your DVR's menu

```
                        STATIC
NETWORK TYPE                              STATIC
IP                              192 . 168 . 001 . 012
GATEWAY                         192 . 168 . 001 . 254
NETMASK                         255 . 255 . 252 . 000
PRIMARY DNS                     168 . 095 . 001 . 001
SECONDARY DNS                   139 . 175 . 055 . 244
PORT                                        0080


PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING
↕ SELECT    ← BACK    → NEXT    ↵ ENTER
```

Step 5.

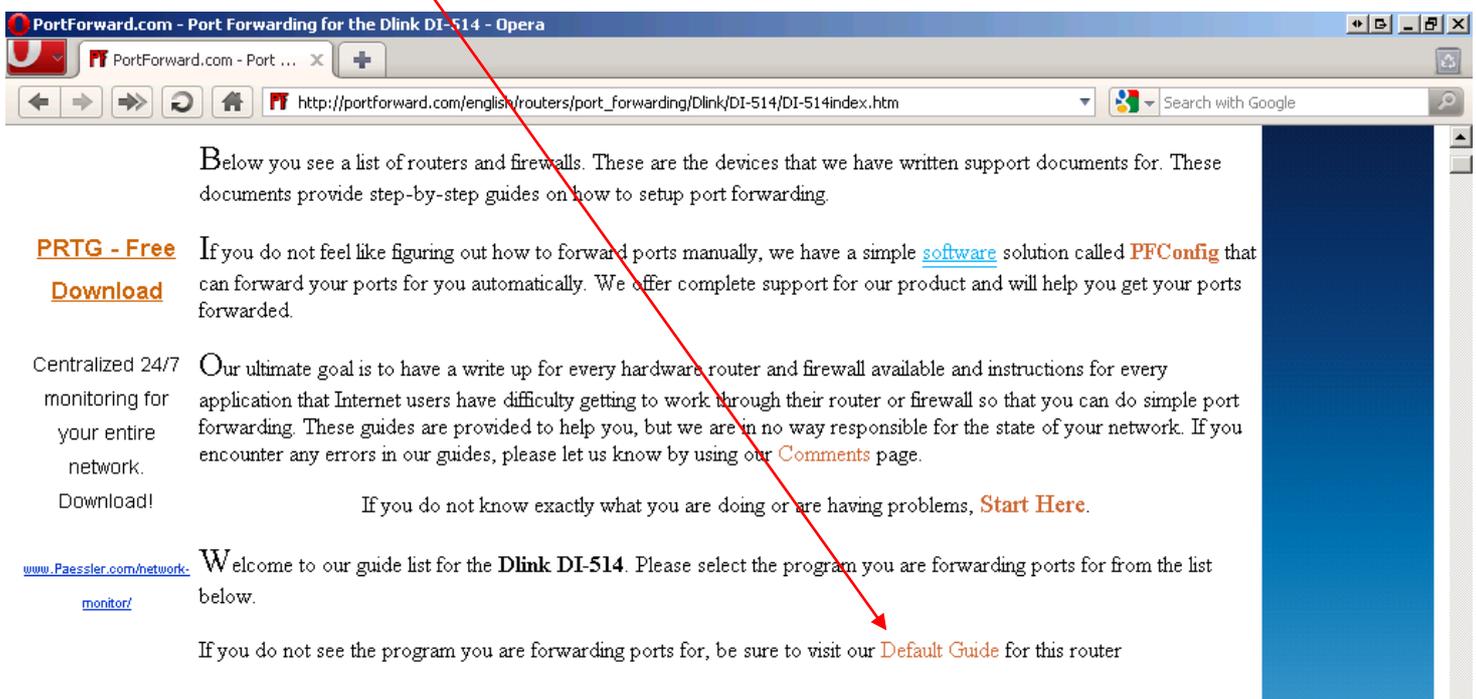Go to http://www.portforward.com, find your routers model number and click it

Step 6.

The next page will be an advert; in the right hand corner it will say 'click here to skip this advertisement'. Click it.

Click here to skip this advertisement...

Don't want to deal with forwarding ports?

Click Here

More Info

Step 7.

On the next page click the 'Default Guide' and then follow its instructions

PortForward.com - Port Forwarding for the Dlink DI-514 - Opera

PortForward.com - Port ...

http://portforward.com/english/routers/port_forwarding/Dlink/DI-514/DI-514index.htm

Search with Google

Below you see a list of routers and firewalls. These are the devices that we have written support documents for. These documents provide step-by-step guides on how to setup port forwarding.

PRTG - Free Download

Centralized 24/7 monitoring for your entire network. Download!

www.Paessler.com/network-monitor/

If you do not feel like figuring out how to forward ports manually, we have a simple software solution called **PFConfig** that can forward your ports for you automatically. We offer complete support for our product and will help you get your ports forwarded.

Our ultimate goal is to have a write up for every hardware router and firewall available and instructions for every application that Internet users have difficulty getting to work through their router or firewall so that you can do simple port forwarding. These guides are provided to help you, but we are in no way responsible for the state of your network. If you encounter any errors in our guides, please let us know by using our Comments page.

If you do not know exactly what you are doing or are having problems, Start Here.

Welcome to our guide list for the **Dlink DI-514**. Please select the program you are forwarding ports for from the list below.

If you do not see the program you are forwarding ports for, be sure to visit our Default Guide for this router

Step 8.

Once port forwarding has been set up you should be able to connect to your DVR by typing its IP address into Internet Explorer. If you have changed your trigger port from 80 then you will need to add colon and the port number onto the end of the IP address, e.g. 192.168.1.12:82

WebCam - Windows Internet Explorer

192.168.1.70   Bing

File   Edit   View   Favorites   Tools   Help

If you want to connect from an external network then you will need to get your external IP address. To get this just go to http://www.whatismyip.com

Please be aware that your IP address may change as your ISP will usually give you a dynamic address. If they do not offer a static IP service you can obtain a DDNS name from a DNS service such as http://www.dyndsns.org. This will mean that to access your DVR you just need to enter an address such as http://myrouter.dyndns.org.

Some of our DVR's support their own built in DDNS, please check the factory site or DVR manual for instruction on how to do this.

Please note that Y3K does not support your router. We can support your DVR but if you have any issues with port forwarding please contact your ISP for technical support.

If you need to manually enter your network settings:

Step 1.
Go to your Start menu and select Run.

If you cannot find Run you can always just press the Windows button and R on your PC keyboard.

Step 2.
In the Run box that appears type *cmd* and the press Enter or click the OK button.
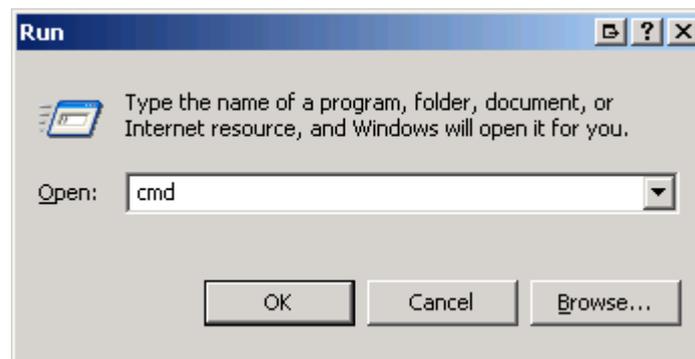
Step 3.

In the black box that appears type *ipconfig /all* and press Enter on your keyboard.

This will bring back your network connection details. You can then copy the Subnet Mask, Default Gateway and any of the DNS Server addresses into your DVR.

Please note that you will have to enter a slightly different IP address as the one displayed here will be the address of your PC. Please follow the next step to find a free IP address.

Step 4.

You will need to find a free IP address to set your DVR to. To do this you can use the *ping* command.

Look at the IP address that you got in the previous step (i.e. 192.168.10.39), the first 3 sets of numbers will be your IP range (i.e. 192.168.10.X). You can then change the last digit and use the ping command to see if that address is being used on the network.

For example, If your PC's IP address came back as 192.168.10.39 you would check to see if 192.168.10.40 is in use, if it is then you could check if 192.168.10.38 or 192.168.10.41 is in use. Keep doing this until you find an address that is not in use. Once you have found one you can just enter it into your DVR's network menu and continue with the previous guide.

To use the IP ping tool simply use the command prompt that you used in the previous steps (by going to Start>Run and typing CMD). You can then type *ping*, the IP address you want to check and then press Enter. (i.e. *ping 192.168.10.38*)

If the address is in use it will show the screen below, stating that it had a reply along with information on how long it took receive the reply.
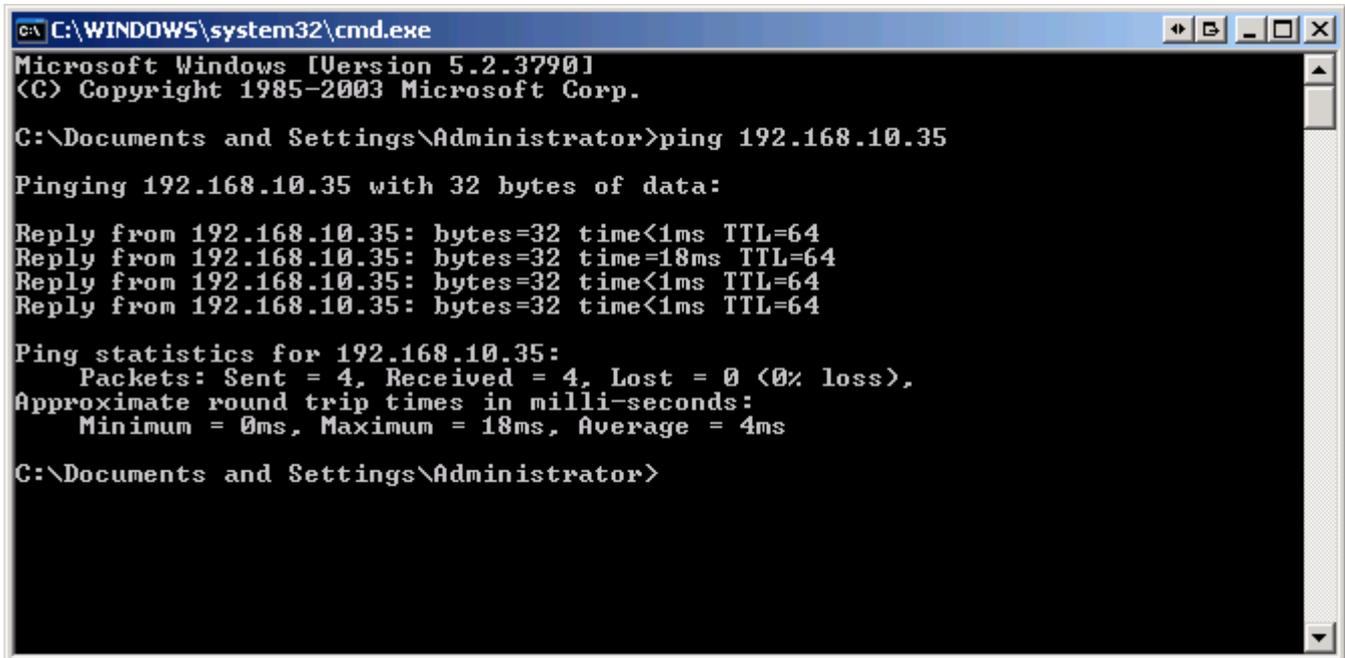
```
C:\WINDOWS\system32\cmd.exe

Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

C:\Documents and Settings\Administrator>ping 192.168.10.35

Pinging 192.168.10.35 with 32 bytes of data:

Reply from 192.168.10.35: bytes=32 time<1ms TTL=64
Reply from 192.168.10.35: bytes=32 time=18ms TTL=64
Reply from 192.168.10.35: bytes=32 time<1ms TTL=64
Reply from 192.168.10.35: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.10.35:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 18ms, Average = 4ms

C:\Documents and Settings\Administrator>
```
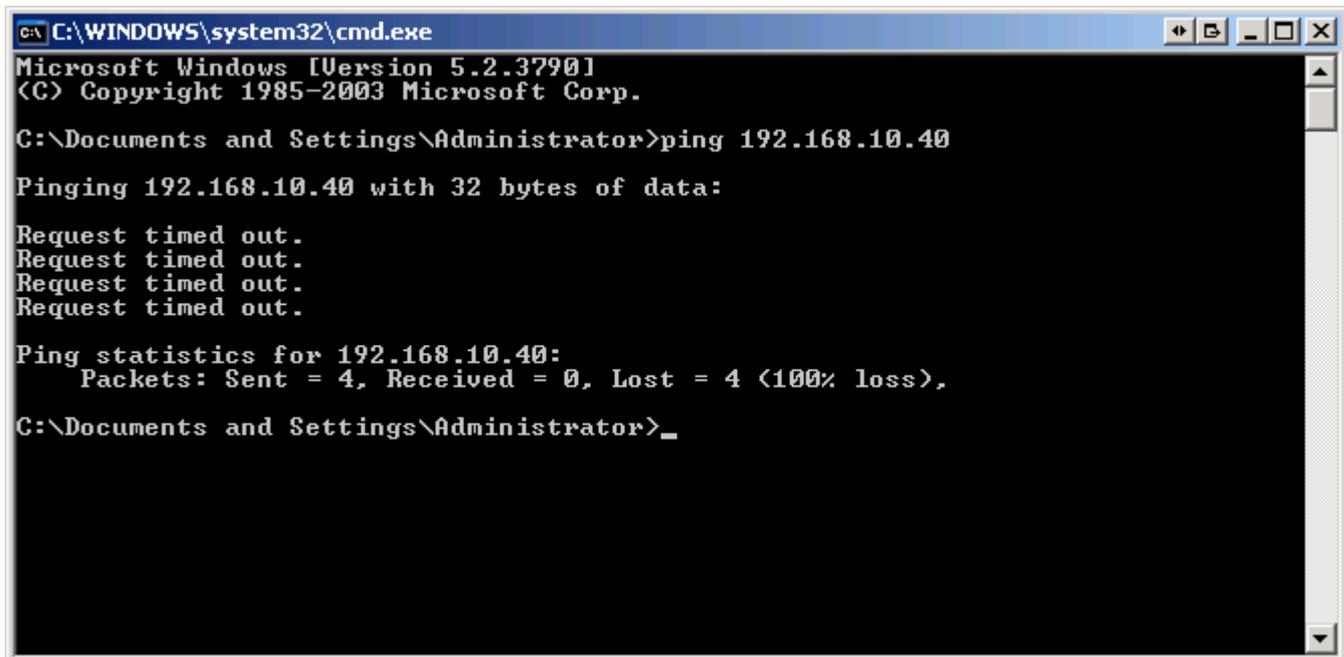
If the address is not in use then it will show the screen below, stating that the Request timed out. This means that the address is not in use and you can go ahead and use it for your DVR.

```
C:\WINDOWS\system32\cmd.exe

Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

C:\Documents and Settings\Administrator>ping 192.168.10.40

Pinging 192.168.10.40 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.10.40:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Documents and Settings\Administrator>
```

So in the case above, 192.168.10.40 is not in use and so you can go ahead and use that address in your DVR and carry on with the previous guide.