Guide to setup security DVR network access

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Step 1: Setting up the physical connections

There is a LAN port at the back of the DVR. Hook up the LAN port to one of the available router port with a CAT5 Ethernet RJ45 cable (not included).

If there is more than one router in the LAN, it is always recommended hook up the DVR to the most outside boundary router.

Step 2: Setting up the security DVR within the local network

First of all, find out the router management IP address, such as “192.168.1.1”. That means all the devices connected to this router should be in the same network segment and have the IP address as “192.168.1.xxx” and mask as “255.255.255.0”. In the following, we just assume the router IP address is “192.168.1.1”.

Secondary, in the DVR menu, go to the network setting item.

Change the **network type** to “Static” or “LAN”.

**IP address** should be in the same network segment with the router but different to any other device in your LAN. If you are not sure what IP address to set, please ask your network administrator for available address.

**Mask** should be “255.255.255.0”.

The ports setting is used when you need to access to the DVR from outside of the LAN. For most of the DVR models, they use port 80 as web control port. Other ports are used to transfer the video data stream and are normally not recommended to change. At this stage, we only want to access the DVR within LAN, so you do not need to worry about the port setting yet.

If you do not have DNS server in your network, please ignore the DNS setting.

Then use the simplest way to access to the DVR. Use a computer in the same network (hooked up to the same router), click “Internet Explorer”, and type in the DVR IP address in IE address such as “192.168.1.xxx”. Normally the IE will prompt you for installing ActiveX plug-in. When you accept to install, the IE will automatically download the DVR application from the DVR to your computer. For some computers, you need to set the ActiveX control to enable or prompt in “Internet Option” → ”Security” → ”Custom Level”. If all settings are set properly, once the computer finishes download the application, you can see the DVR live interface.

Normally it will prompt for you to enter username and password or other information. Many DVR they have their default username such as “admin” and password such as “admin” or “0000” or “123456”. Please refer to the DVR user manual.

After successfully access with IE, you can try to install the application with your DVR CD, input the necessary information such as DVR IP address, you can get a similar interface with IE accessing.
For the application setting detail, they are very different from models. Please refer to the DVR user manual.

**Step 3: Setting up the security DVR for Remote Access**

First of all, you need to find out your public IP address. Your public IP address is a unique address all over the Internet. Anybody all over the Internet must type in this public IP address to access to your LAN. There are several ways to find your public IP address:

1. Call your ISP (Internet Service Provider) and ask them for it.
2. Check the status page of your router.
3. Or go to the websites such as [http://www.whatismyip.com](http://www.whatismyip.com)

Secondary, the IP address we talk about in the last step is called private IP address such as “192.168.1.xxx”. Every device connected to your router, no matter computer, DVR or even network printer, is working like an extension phone connected to your office phone system. This device can be identified by a web port number. We need to do the port forwarding in the router so that we can link this web port number to this device’s private IP address.

Different router brand and model has very different ways in setting port forwarding. Please refer to your router user manual or call your router technical support.

When doing the port forwarding, some DVR models need to forward not only the web port but also some other necessary ports for video or management data stream. And usually you need to forward both “TCP” and “UDP” protocols in any port forwarding.

Once you have finished setting the port forwarding, you can reach the DVR from all over the Internet just like you are reaching it in your LAN. For example, if the public IP is “72.22.33.44”, the DVR private IP is “192.168.1.123” and is linked to port “80”. Then Anybody outside of your LAN type in the IP address of “http://72.22.33.44:80” will get the same result as anybody inside of your LAN typing in the IP address of “192.168.1.123”.

**Step 4: Setting up DDNS (optional)**

Many customers, their routers will get different public IP address from the ISP when the router reboots or automatically refresh after a certain period. In this case, you need to use the 3 ways we talked above to find out the public IP address again. Or you can sign up for a dynamic DNS. The advantage of dynamic DNS is that you can have an easily remember website name instead of the boring numeric IP address. Another advantage is that you can always use this website name no matter how the public IP address is changed.

This service can be done by signing up in the [www.dyndns.com](http://www.dyndns.com) or other similar website.