

## Basic Networking Notes for DVR's

Terms:

**IP** = Internet Protocol address

**DHCP** = Dynamic Host Configuration Protocol

**MAC** = Media Access Control address

**LAN** = Local Area Network Example: 192.168.1.0

**WAN** = Wide Area Network Example: 67.70.224.7

**ISP** = Internet Service Provider

**Static IP** address = a WAN address provided by the ISP

**Static** setting of a DVR = local IP address set by the network administrator

Basic steps for Networking a DVR:

- Connect the DVR to your router via an ethernet cable.
- Now open the DVR's Menu and navigate to the Networking section.
- Set the DVR to DHCP - not Static. This will allow the DVR to request a LAN IP address from the DHCP server. **Note: This is not to be confused with a Static IP address assigned by your ISP.** The DHCP server in your router will always assign the same LAN IP address to a given piece of equipment attached to the LAN because that piece of equipment has a unique MAC address. The DHCP server will remember the MAC address of different pieces of equipment and reassign the same LAN IP address even if said equipment is removed from the LAN and then reattached.
- Once the DVR is assigned a LAN IP address, write it down. You will need it in the following steps.
- Now go to a computer attached to the LAN.
- Open Internet Explorer Browser.
- Input the LAN IP address of the DVR. You should now be asked to input the User Name and Password of the DVR. Your computer may block access because of the Active X settings in your browser. You may have to also set the browser to run un-signed programs.
- Once that you have tested the DVR on the LAN you can now set the router to allow remote access from the internet.
- Input the LAN IP address of your router into the address line of your browser.
- Input your user name and password for router.
- In the router menu navigate to the port forwarding section of the menu. **Note:** Some routers say Port Forwarding and some call it Gaming.
- Find the ports that must be forwarded in the manual of the DVR or find them in the networking section of the menu.
- Input the ports Starting and Ending for the LAN IP address of the DVR **Note:** Each Port will have a separate line entry.
- Once the port forwarding is set, you can access the DVR from a remote site via the internet. **Note:** You will not be able to test the internet access if the DVR and the computer you are using for viewing are connected to the same LAN.
- Once you are on a remote internet connection, open Internet Explorer Browser and type your Static IP address assigned by your ISP. You should be asked for the user name and password of the DVR.