

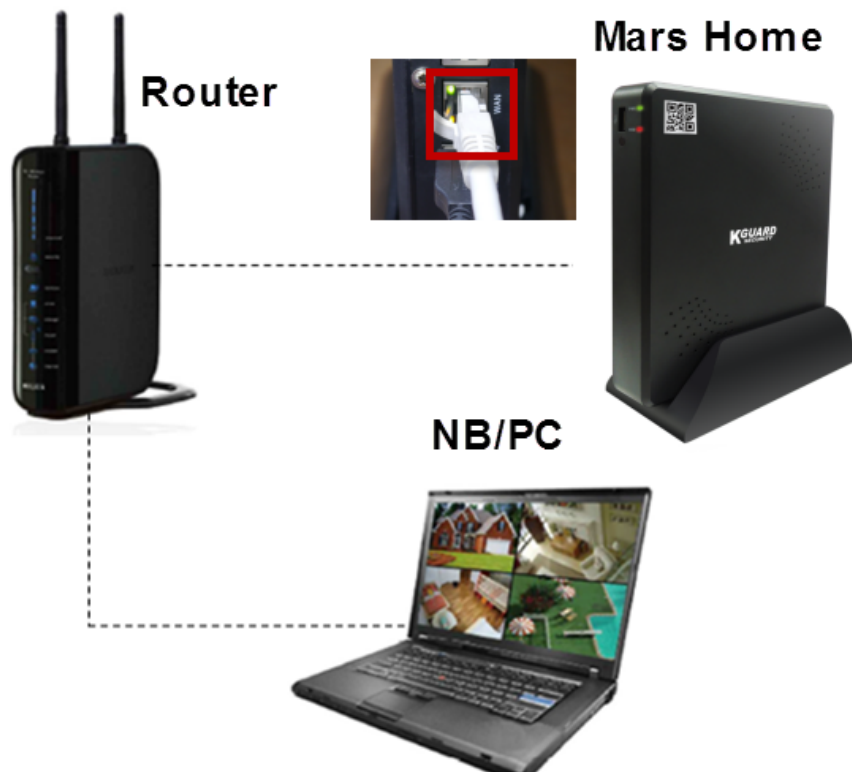
# Open Port on Router

Home router device usually have firewall functions, so devices outside of local network can not access devices under router (for example: NVR device). So you must enable DMZ function on router or open NVR port manually.

User have 2 ways to open port on router:

1. Enable DMZ
2. Open NVR port manually

Topology:

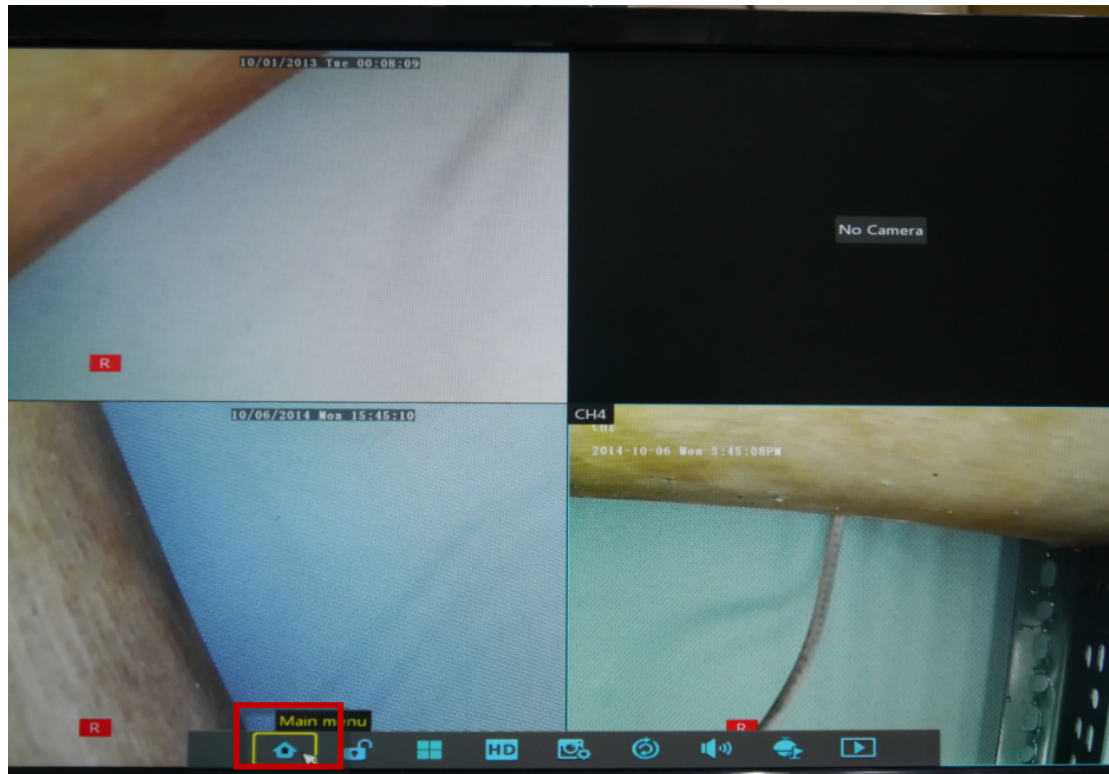


Lead-In:

1. Please check your router can connect to outside network.

Below are steps to enable DMZ:

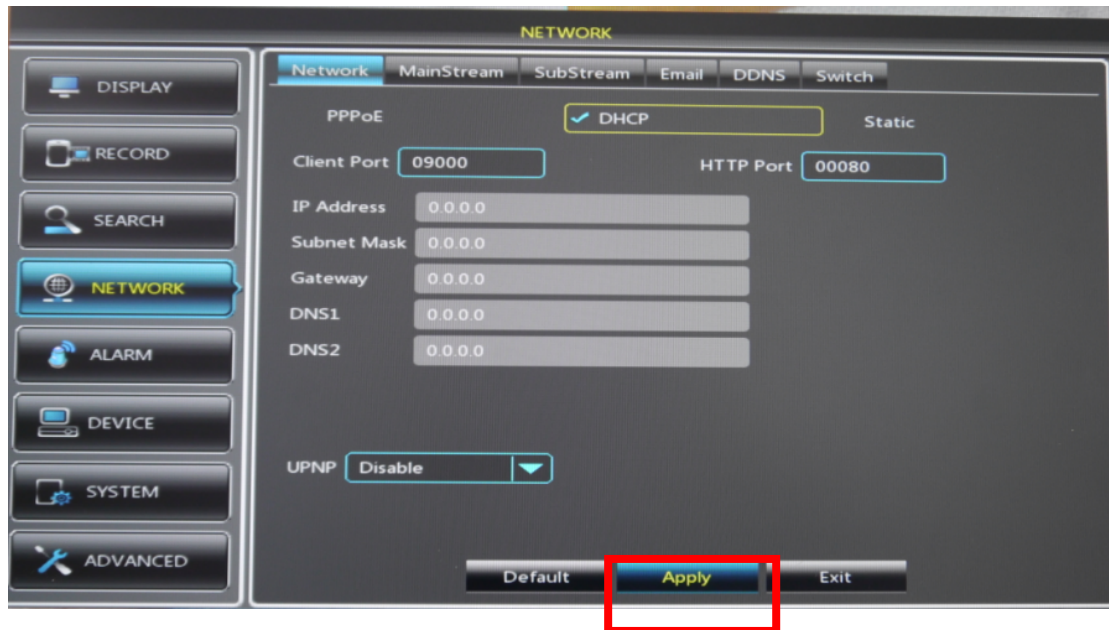
Step 1: Please click “ (Main menu)”



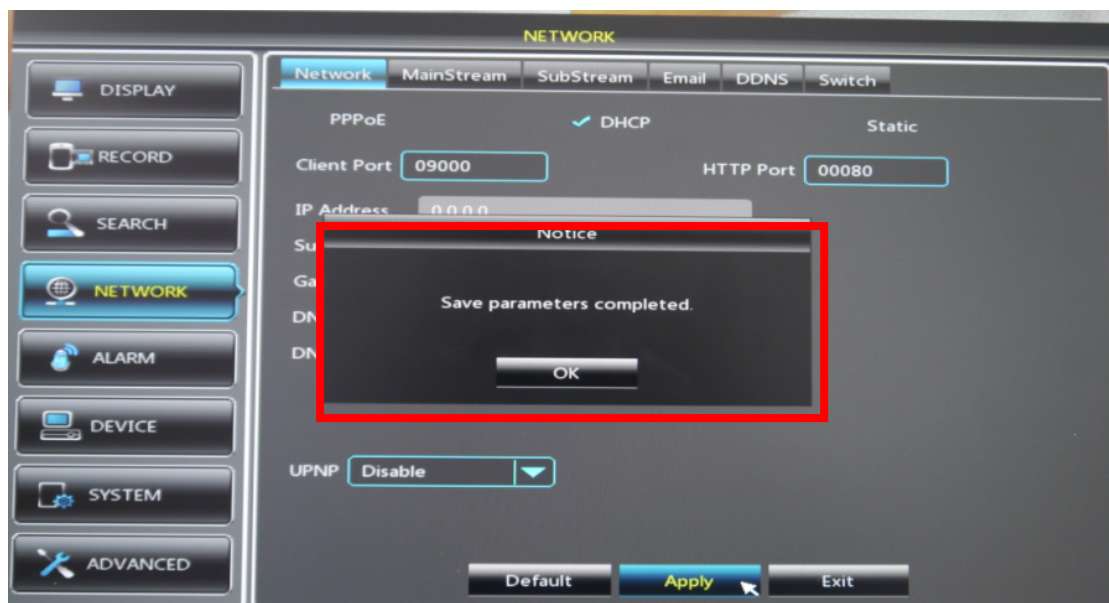
Step 2: click “Network”



**Step 3:** Please select “DHCP” and click “Apply”

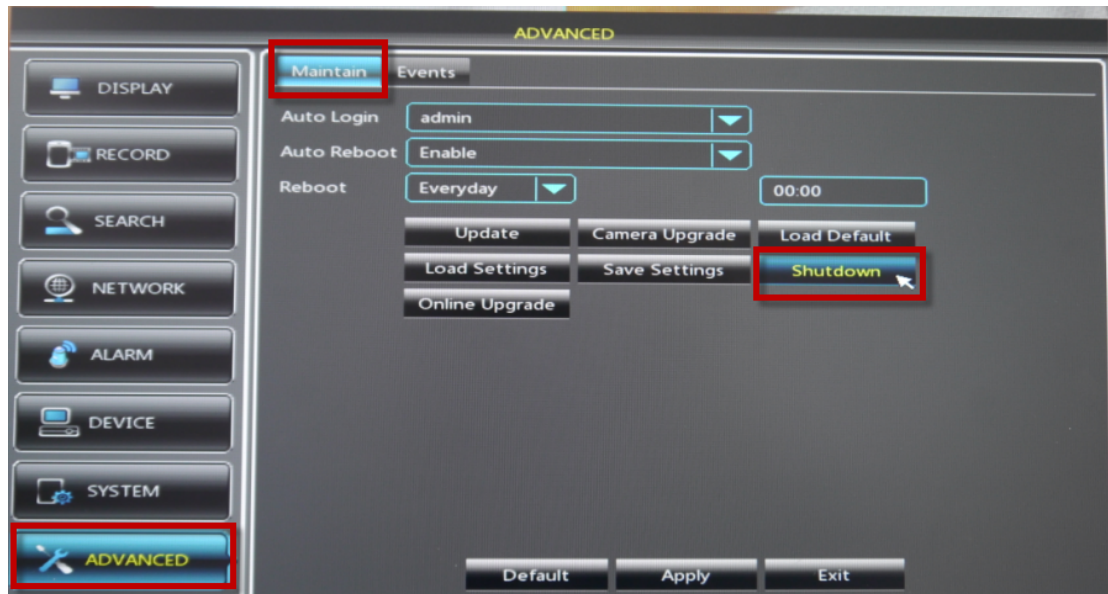


**Step 4:** Display will show message “Save Parameters Completed”, please click “OK”

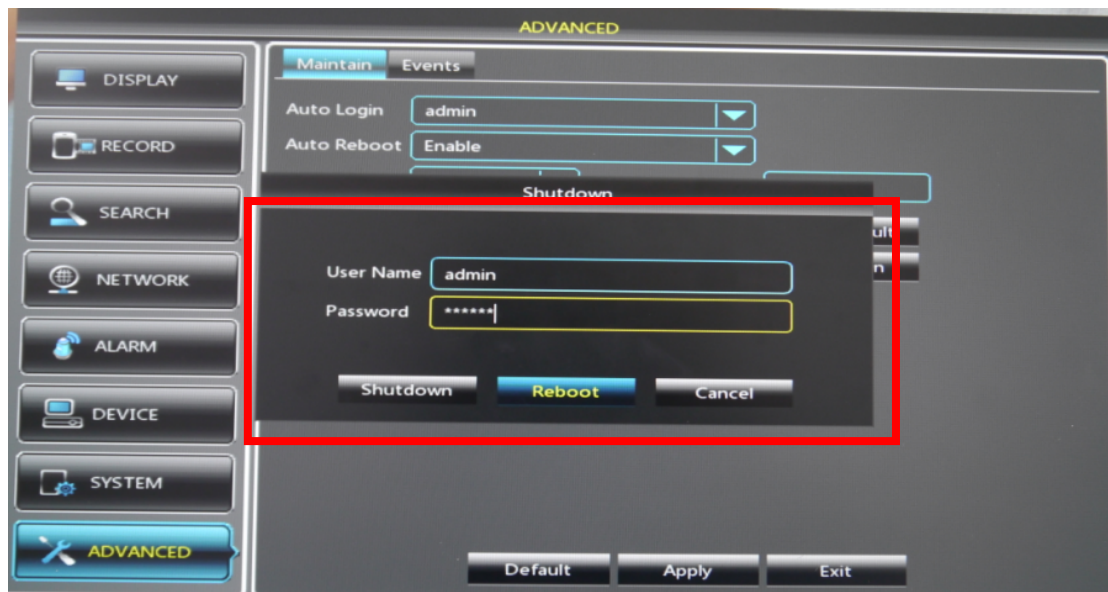




**Step 5:** Please restart NVR, select “Advance”→“Maintain”→“Shutdown”



**Step 6:** Please enter NVR's “User Name” and “Password”, then click “Reboot”



**Step 7:** When NVR reboot complete, please login again to check NVR's IP address.

The screenshot shows the 'NETWORK' configuration page of an NVR. On the left is a vertical sidebar with icons and labels for 'DISPLAY', 'RECORD', 'SEARCH', 'NETWORK' (highlighted), 'ALARM', 'DEVICE', 'SYSTEM', and 'ADVANCED'. The main area has a top navigation bar with tabs: 'Network', 'MainStream', 'SubStream', 'Email', 'DDNS', and 'Switch'. Below this, there are three radio buttons: 'PPPoE', 'DHCP' (which is selected with a checkmark), and 'Static'. The 'DHCP' section contains several text input fields: 'Client Port' with value '09000', 'HTTP Port' with value '00080', 'IP Address' with value '192.168.1.229', 'Subnet Mask' with value '255.255.255.0', 'Gateway' with value '192.168.1.1', 'DNS1' with value '192.168.1.1', and 'DNS2' with value '0.0.0.0'. At the bottom of this section is a 'UPNP' dropdown menu currently set to 'Disable'. At the very bottom of the main area are three buttons: 'Default', 'Apply', and 'Exit'.

Field	Value
Client Port	09000
HTTP Port	00080
IP Address	192.168.1.229
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
DNS1	192.168.1.1
DNS2	0.0.0.0
UPNP	Disable

**Step 8:** When you have NVR's IP address, please login to your router and go to settings page.

※ Here we use D-Link Router for example, every router setting page is different. If you have issue with router setting, please contact with your router vendor.

Click **“FIREWALL SETTINGS”** and select **“Enable DMZ”**, please enter NVR's IP address and click **“Save Settings”**

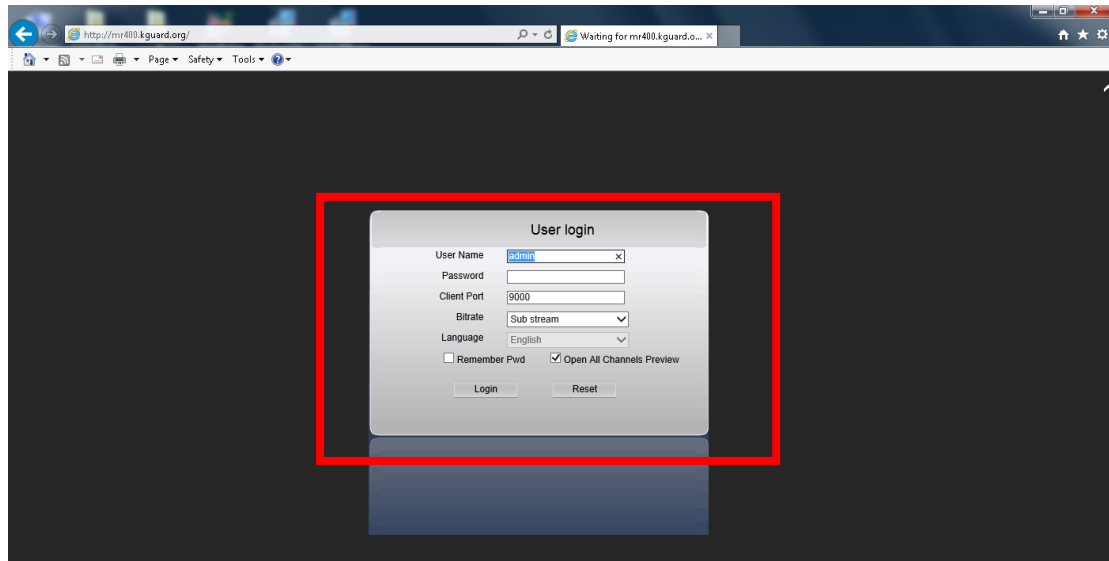
Product Page: DIR-615 Hardware Version: E4 Firmware Version: 5.10

**D-Link**

DIR-615	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
VIRTUAL SERVER	<b>FIREWALL SETTINGS</b>				<b>Helpful Hints...</b> Enable the DMZ option only as a last resort. If you are having trouble using an application from a computer behind the router, first try opening ports associated with the application in the <b>Virtual Server</b> or <b>Port Forwarding</b> sections. <a href="#">More...</a>
PORT FORWARDING	The Firewall Settings allows you to set a single computer on your network outside of the router. <input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/>				
APPLICATION RULES	<b>FIREWALL SETTINGS</b> Enable SPI: <input checked="" type="checkbox"/>				
QOS ENGINE	<b>NAT ENDPOINT FILTERING</b>				
NETWORK FILTER	UDP Endpoint Filtering: <input type="radio"/> Endpoint Independent <input checked="" type="radio"/> Address Restricted <input type="radio"/> Port And Address Restricted				
ACCESS CONTROL	TCP Endpoint Filtering: <input type="radio"/> Endpoint Independent <input type="radio"/> Address Restricted <input checked="" type="radio"/> Port And Address Restricted				
WEBSITE FILTER	<b>ANTI-SPOOF CHECKING</b> Enable anti-spoof checking: <input type="checkbox"/>				
INBOUND FILTER	<b>ANTI-SPOOF CHECKING</b> Enable anti-spoof checking: <input type="checkbox"/>				
FIREWALL SETTINGS	<b>DMZ HOST</b>				
ROUTING	The DMZ (Demilitarized Zone) option lets you set a single computer on your network outside of the router. If you have a computer that cannot run Internet applications successfully from behind the router, then you can place the computer into the DMZ for unrestricted Internet access. <b>Note:</b> Putting a computer in the DMZ may expose that computer to a variety of security risks. Use of this option is only recommended as a last resort. Enable DMZ: <input checked="" type="checkbox"/> DMZ IP Address: <input type="text" value="192.168.1.229"/> <input type="button" value="&lt;&lt;"/> <input type="text" value="Computer Name"/>				
ADVANCED WIRELESS	<b>APPLICATION LEVEL GATEWAY (ALG) CONFIGURATION</b>				
ADVANCED NETWORK	PPTP: <input checked="" type="checkbox"/> IPSec (VPN): <input checked="" type="checkbox"/> RTSP: <input checked="" type="checkbox"/> SIP: <input checked="" type="checkbox"/>				
IPv6					

**WIRELESS**

**Step 9:** You can open IE browser and enter router's WAN IP address to connect.

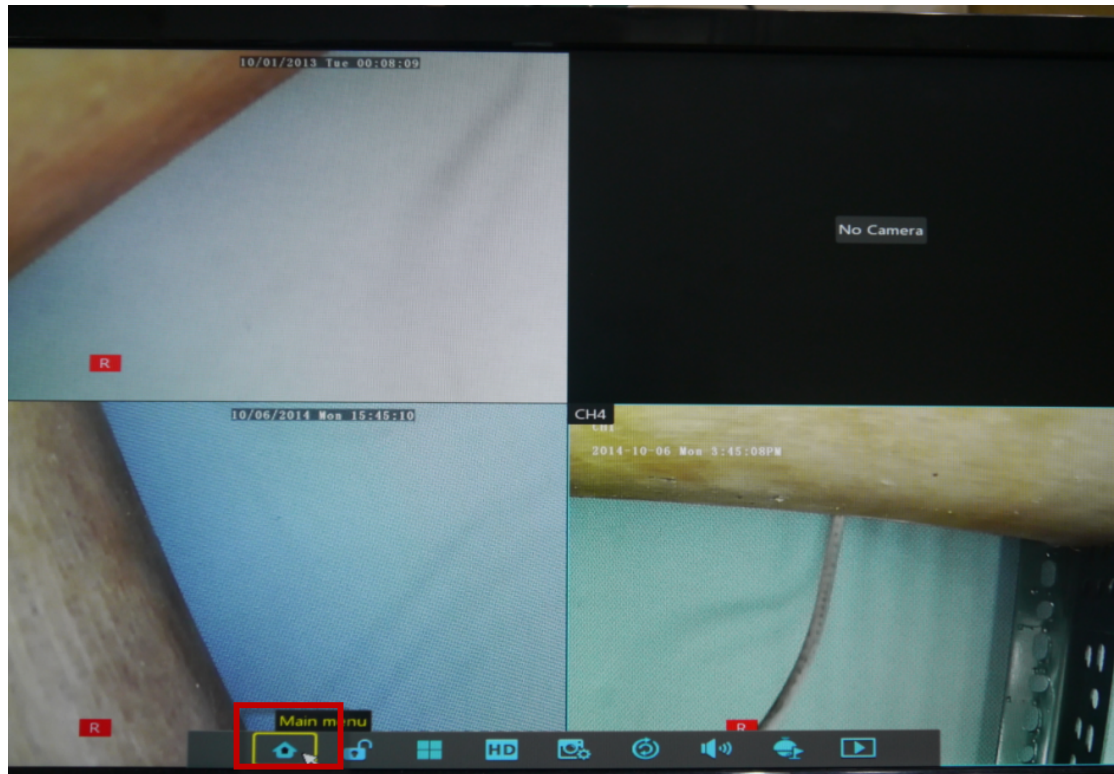


**(Setup complete)**



## Open DVR port manually

Step 1: Please click “ (Main menu)”

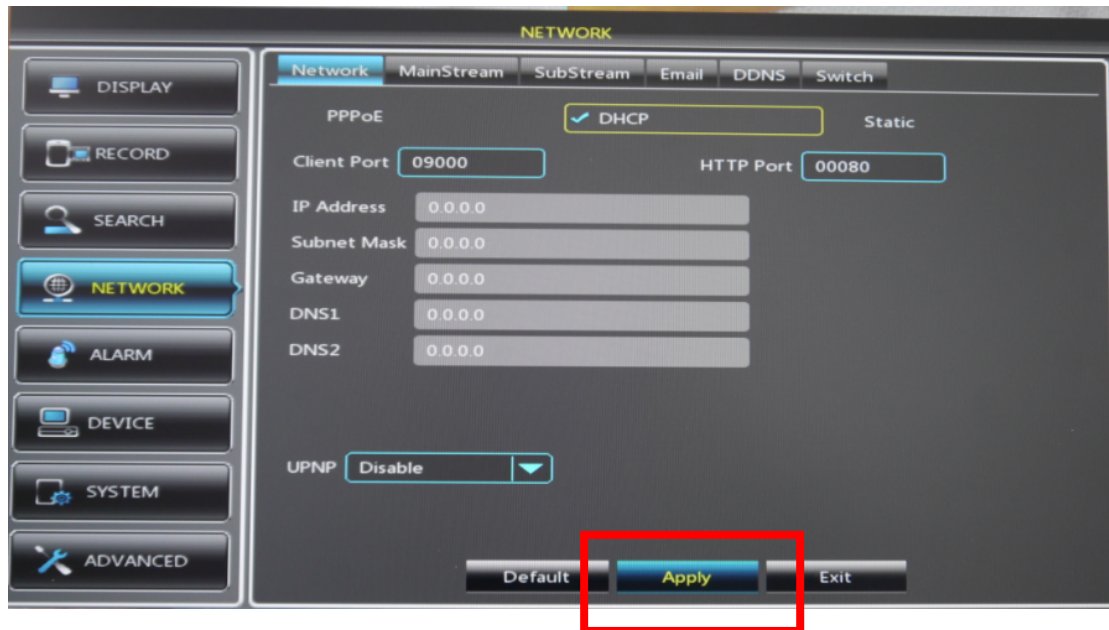


Step 2: click “Network”

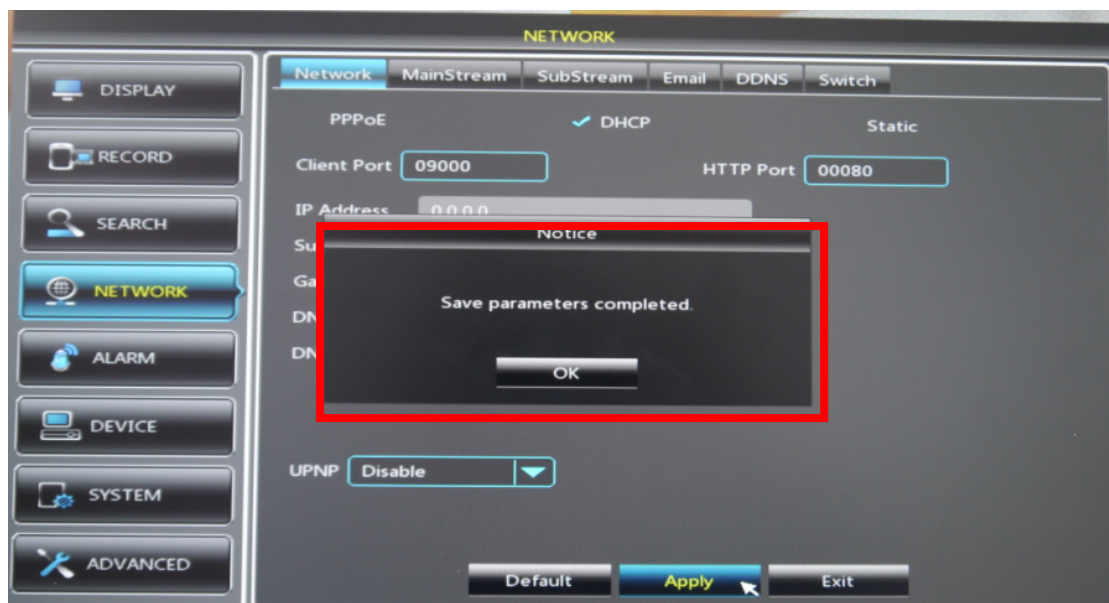




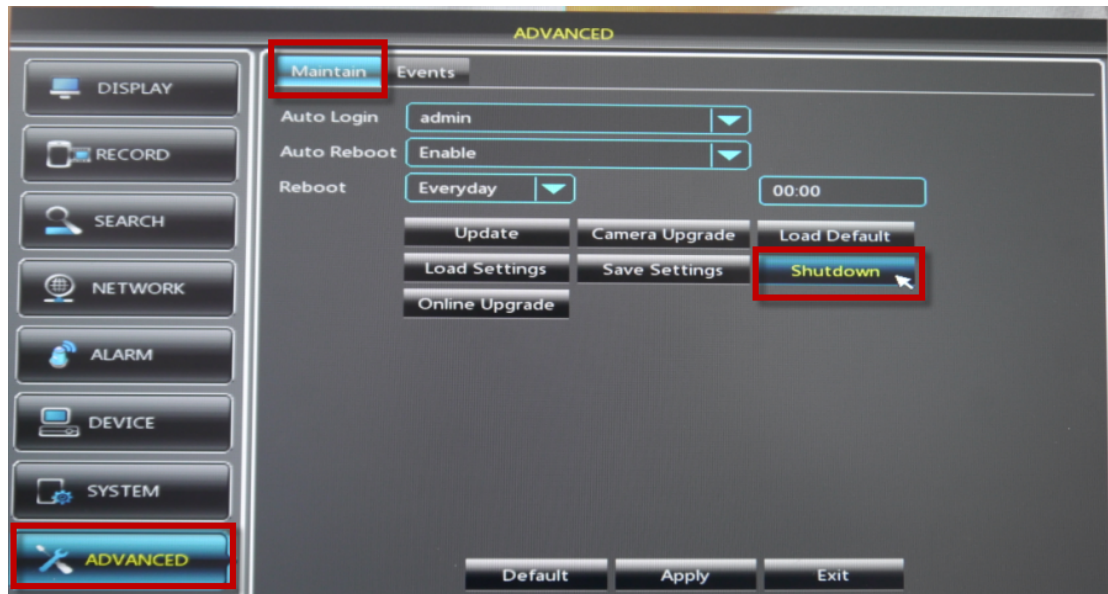
**Step 3:** Please select “DHCP” and click “Apply”



**Step 4:** Display will show message “Save Parameters Completed”, please click “OK”



**Step 5:** Please restart NVR, select “Advance”→“Maintain”→“Shutdown”



**Step 6:** Please enter NVR's “User Name” and “Password”, then click “Reboot”



**Step 7:** When NVR reboot complete, please login again to check NVR's IP address.

The screenshot displays the 'NETWORK' configuration page of an NVR. The left sidebar contains navigation buttons: DISPLAY, RECORD, SEARCH, NETWORK (highlighted), ALARM, DEVICE, SYSTEM, and ADVANCED. The main panel has tabs for Network, MainStream, SubStream, Email, DDNS, and Switch. Under the 'Network' tab, there are three modes: PPPoE, DHCP (selected with a checkmark), and Static. A red rectangular box highlights the 'Client Port' field with the value '09000' and the 'HTTP Port' field with the value '00080'. Below these, the 'IP Address' is '192.168.1.229' and the 'Subnet Mask' is '255.255.255.0'. Further down, the 'Gateway' is '192.168.1.1', 'DNS1' is '192.168.1.1', and 'DNS2' is '0.0.0.0'. At the bottom, the 'UPNP' setting is set to 'Disable' with a dropdown arrow. Three buttons at the very bottom are 'Default', 'Apply', and 'Exit'.

Field	Value
Client Port	09000
HTTP Port	00080
IP Address	192.168.1.229
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
DNS1	192.168.1.1
DNS2	0.0.0.0
UPNP	Disable

**Step 8:** When you have NVR's IP address, please login to your router and go to settings page.

※ Here we use D-Link Router for example, every router setting page is different. If you have issue with router setting, please contact with your router vendor.

Click **“VIRTUAL SERVER”** and enter NVR's IP address and port then click **“Save Settings”**

**D-Link**

DIR-615 // SETUP ADVANCED TOOLS STATUS

**VIRTUAL SERVER**

The Virtual Server option allows you to define a single public port on your router for redirection to an internal LAN IP Address and Private LAN port if required. This feature is useful for hosting online services such as FTP or Web Servers.

Save Settings Don't Save Settings

**24 --- VIRTUAL SERVERS LIST**

Name	IP Address	Port	Traffic Type	Schedule
DvR_http	192.168.1.229	80	Both	Always
DvR_Client	192.168.1.229	9000	Both	Always
DvR_Mobile	192.168.1.229	18004	Both	Always

**Step 9:** You can open IE browser and enter router's WAN IP address to connect.

http://mr400.kguard.org/

Waiting for mr400.kguard.o...

**User login**

User Name: admin

Password:

Client Port: 9000

Bitrate: Sub stream

Language: English

☐ Remember Pwd ☒ Open All Channels Preview

Login Reset

**(Setup complete)**