

D-Linear 7 (D-7) Network Guide

For those with basic network set-up knowledge this should take less than 10 minutes and should only need to be done once or everytime you change your router or it's configuration.

We suggest you use a high quality wireless router for hi-res audio playback. Bargain routers may give you problems.

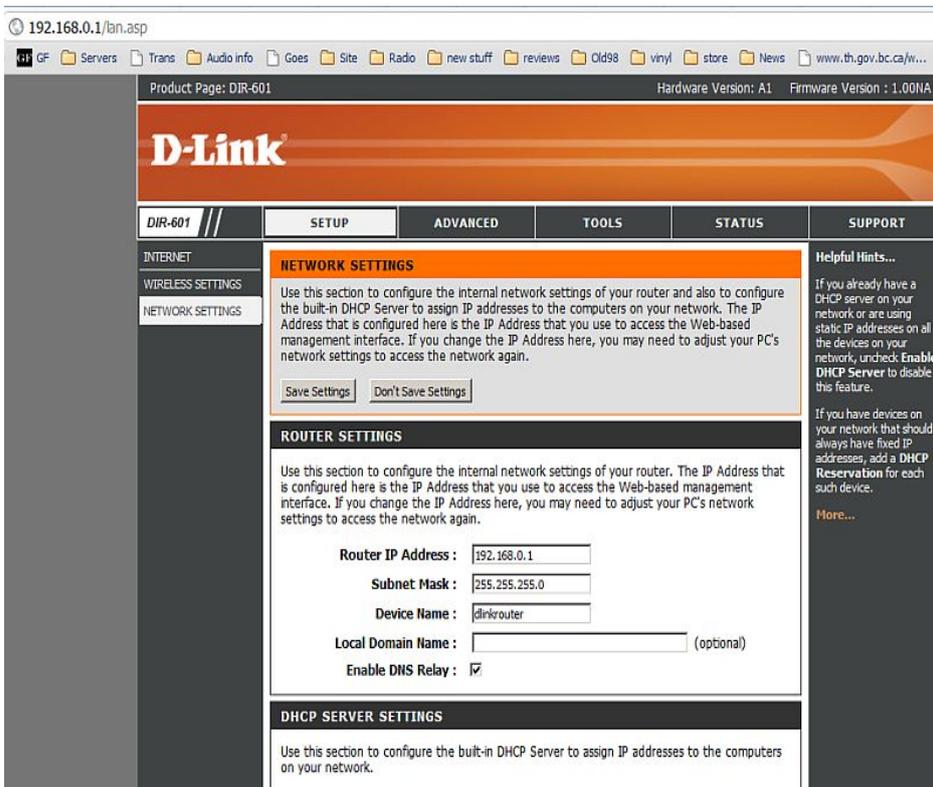
We are running Windows 7, if you are please upgrade your D-7 Operating System from the Opera web site, www.opera-consonance.com if you have an earlier model, in the setup menu you will find which OS you have installed. You should check every few weeks to see if a new OS version is out, new features and fixes are being addressed on an ongoing basis.

Many setup or connecting operations in the D-7 can take up to 10 seconds to succeed or fail, please wait for this 10 seconds, do not keep pushing buttons or it can lock up the OS and you will need to reboot the D-7.

On your computer, log into your Network Router, typically by typing <http://192.168.0.1> or <http://192.168.0.1> into your browser, if you installed your wireless router with standard setting, if you installed your router with custom settings, you likely already have the D-7 setup :). *We have all seen the 'contact your network administrator' messages before, if you can't find or log into your router, guess what :) We can't help you with that.*

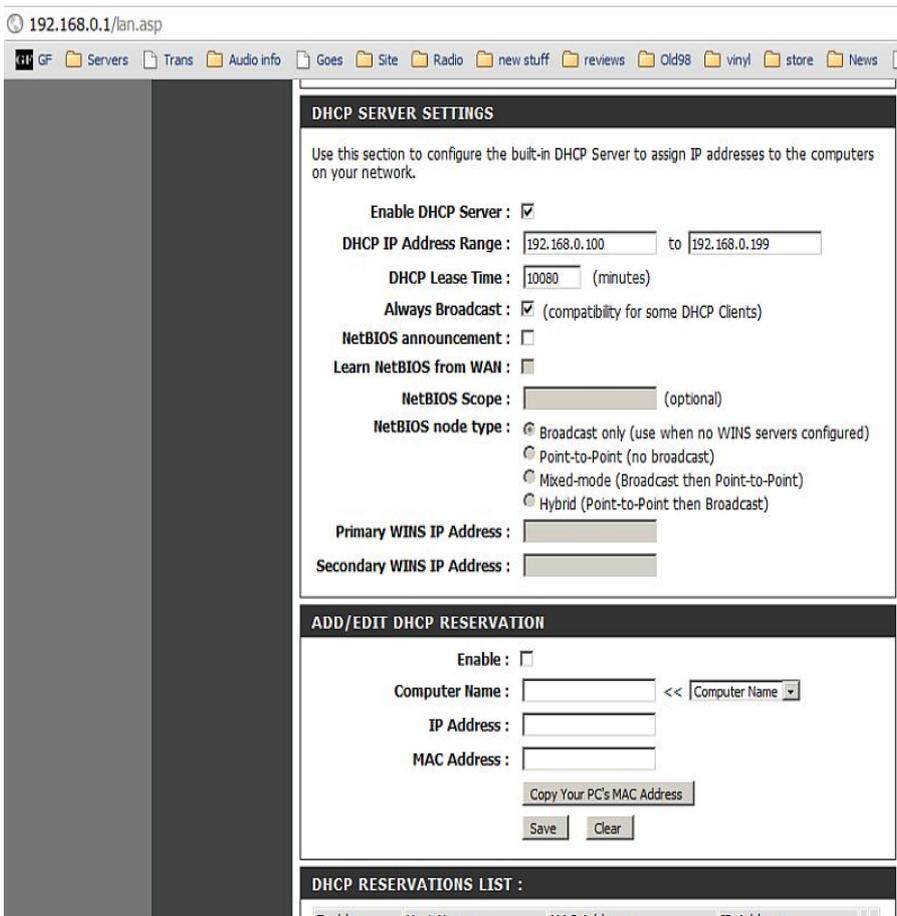
Once logged in find your Network Settings menu, this will be different on every router's interface, we will show you ours as a guideline.

a. Here you see the Router IP Address, we will need that. *In my case it is 192.168.0.1*

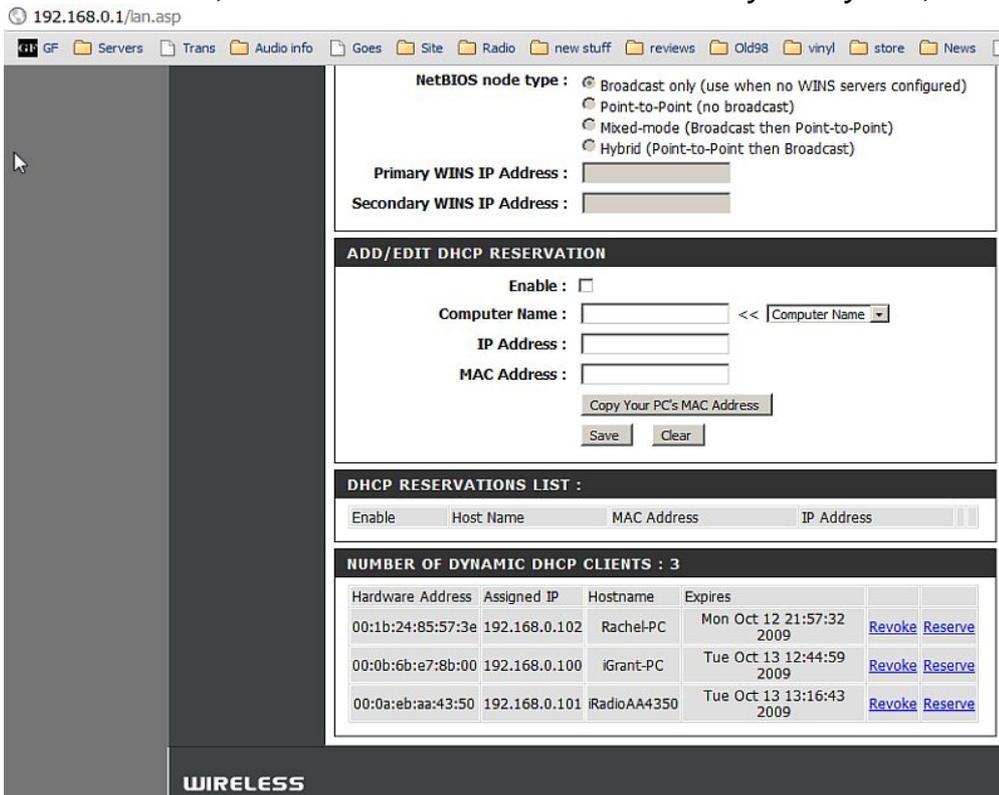


The screenshot shows the D-Link DIR-601 router's web interface. The browser address bar shows '192.168.0.1/lan.asp'. The page title is 'Product Page: DIR-601' and the hardware and firmware versions are 'A1' and '1.00NA' respectively. The D-Link logo is prominent at the top. Below the logo is a navigation menu with tabs for 'DIR-601', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The 'SETUP' tab is selected, and the 'NETWORK SETTINGS' sub-tab is active. The main content area is divided into three sections: 'NETWORK SETTINGS', 'ROUTER SETTINGS', and 'DHCP SERVER SETTINGS'. The 'NETWORK SETTINGS' section contains instructions and 'Save Settings' and 'Don't Save Settings' buttons. The 'ROUTER SETTINGS' section contains fields for 'Router IP Address' (192.168.0.1), 'Subnet Mask' (255.255.255.0), 'Device Name' (dlinkrouter), 'Local Domain Name' (optional), and 'Enable DNS Relay' (checked). The 'DHCP SERVER SETTINGS' section contains instructions for configuring the DHCP server.

b. Here you see the IP Address Range, we will need that. *In my case it is 192.168.0.100 to 192.168.0.199*



c. Here you see the assigned IP Address already assigned on your network router, we will need that. *In my case you see Rachel's and my computer's IP address, what you see will depend on your network devices, you will also see the D-7 hooked up to 192.168.0.101, the iRadio name. You won't see the yet on yours, but soon will, we hope :).*



d. From your Windows Start Menu get your command prompt screen and run the command `ipconfig/all`. Here you will find your Router's DNS address, we will need that, *in my case it is 192.168.0.1*

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C:\Users\iGrant>ipconfig/all

Windows IP Configuration

    Host Name . . . . . : iGrant-PC
    Primary Dns Suffix . . . . . :
    Node Type . . . . . : Hybrid
    IP Routing Enabled. . . . . : No
    WINS Proxy Enabled. . . . . : No
    DNS Suffix Search List. . . . . : cg.shawcable.net

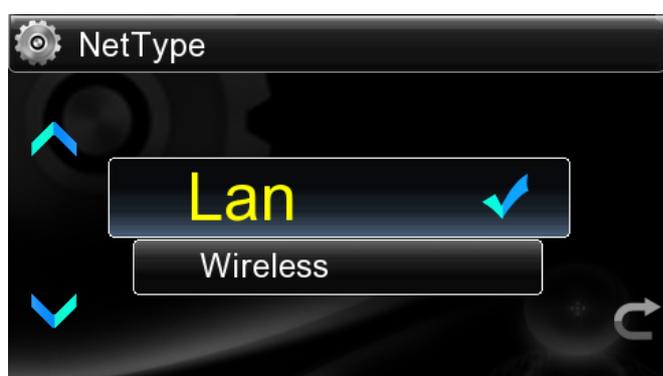
Wireless LAN adapter Wireless Network Connection:

    Connection-specific DNS Suffix . . . : cg.shawcable.net
    Description . . . . . : Atheros AR5B93 Wireless Network Adapter
    Physical Address. . . . . : 00-0B-6B-E7-8B-00
    DHCP Enabled. . . . . : Yes
    Autoconfiguration Enabled . . . . . : Yes
    Link-local IPv6 Address . . . . . : fe80::fd88:f51d:7725:2a44%12(Preferred)
    IPv4 Address. . . . . : 192.168.0.100(Preferred)
    Subnet Mask . . . . . : 255.255.255.0
    Lease Obtained. . . . . : Thursday, February 10, 2011 9:58:21 AM
    Lease Expires . . . . . : Thursday, February 17, 2011 9:58:21 AM
    Default Gateway . . . . . : fe80::226:5aff:fefa:292%12
                                192.168.0.1
    DHCP Server . . . . . : 192.168.0.1
    DNS Servers . . . . . : 192.168.0.1
    NetBIOS over Tcpip. . . . . : Enabled

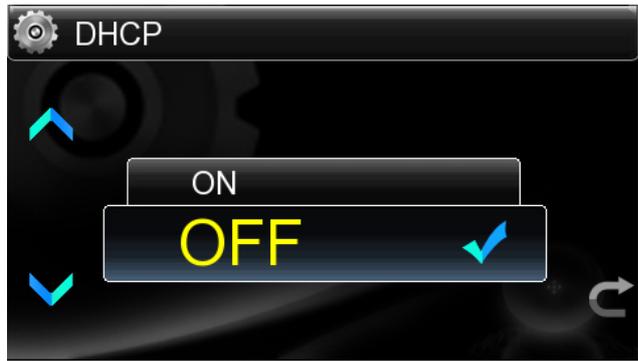
Ethernet adapter Local Area Connection:
  
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Set up the D-7's LAN network.

1. Power down. *We assume you have everything hooked up for hearing the D-7 thru your system and have played some files from a USB or Flash Drive and have read the manual and have familiarized yourself with the user interface. We find the remote is quicker to use than the touch screen for these steps.*
2. Hook up Ethernet Cable from your router to the D-7 for LAN operation. If you have the optional wireless dongle, insert into one of the two USB hosts (front or rear, your choice), you first need to setup the D-7 network connection by LAN even if you only intend to use the wireless dongle.
3. Power up.
4. Menu select Setup / Network / NetType, Set to Lan, might take up to 10 seconds for checkmark to appear beside LAN, hit 'go back' button on remote or screen..

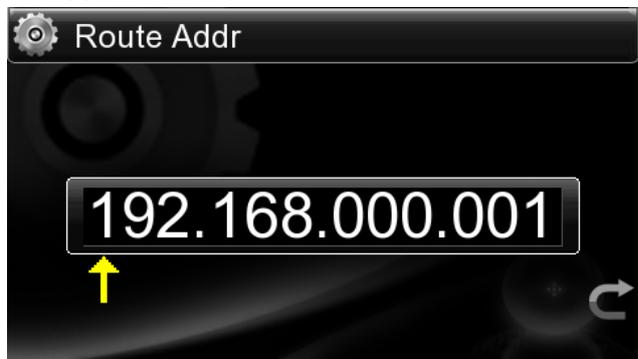
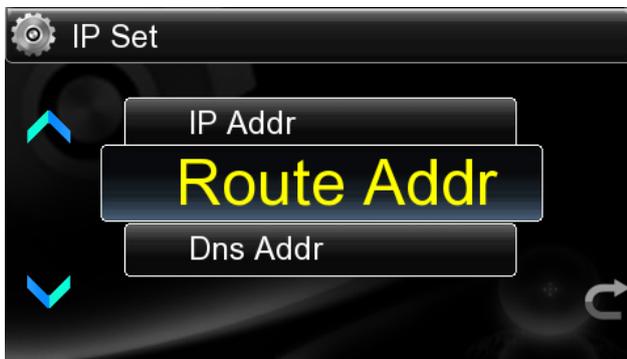


5. Select DHCP and set to Off, go back.
DHCP is not fully implemented yet, might work on your network, doesn't on mine.



6. Select IP Set/Route Addr. Enter your Router Address from 'a' above, *in my case it is 192.168.000.001*. Press Enter, you should get a 'set succesful' screen for a few seconds and then return to the previous menu.

Note - whenever you you have a number to input in the D-7 leading zeros are redundant, 192.168.0.1 = 192.168.000.001 in the D-7, this is typical for most network devices.



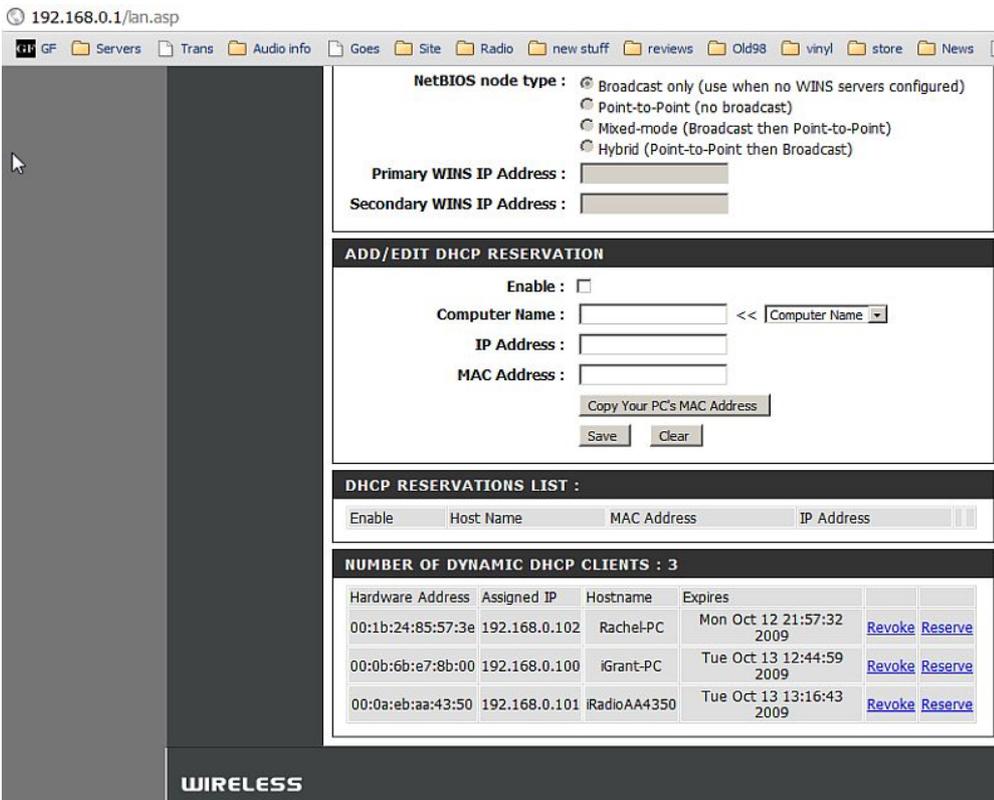
7. Select Dns Addr. Enter your DNS Address from 'd' above, *in my case it is 192.168.000.001*. Press Enter, you should get a 'set succesful' screen for a few seconds and then return to the previous menu.



8. Select IP Addr. Enter a Free Address from 'b' above, *in my case it is 192.168.000.101*. Press Enter, you should get a 'set succesful' screen for a few seconds and then return to the previous menu.

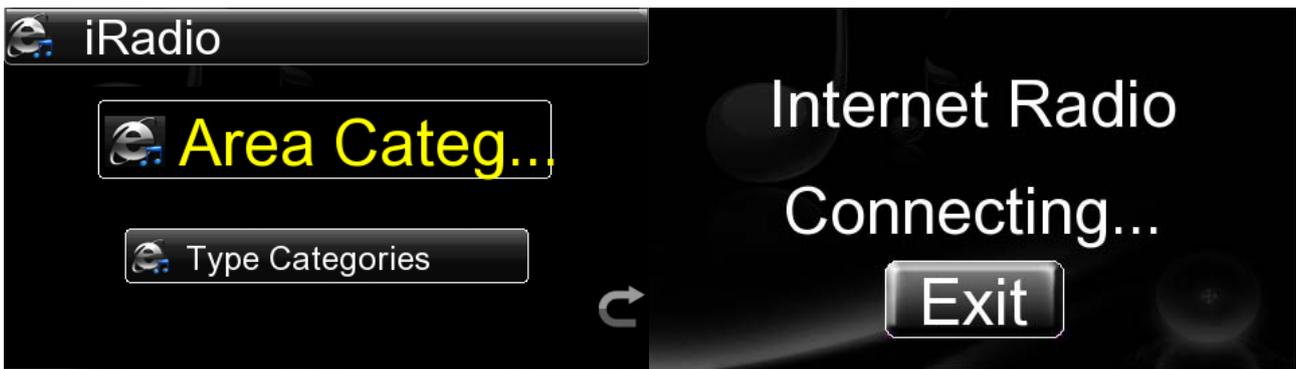


9. Refresh your Router Admin panel in your browser, you should now see that 'iRadio....' has been assigned the IP you entered. If your router assigned a different number than



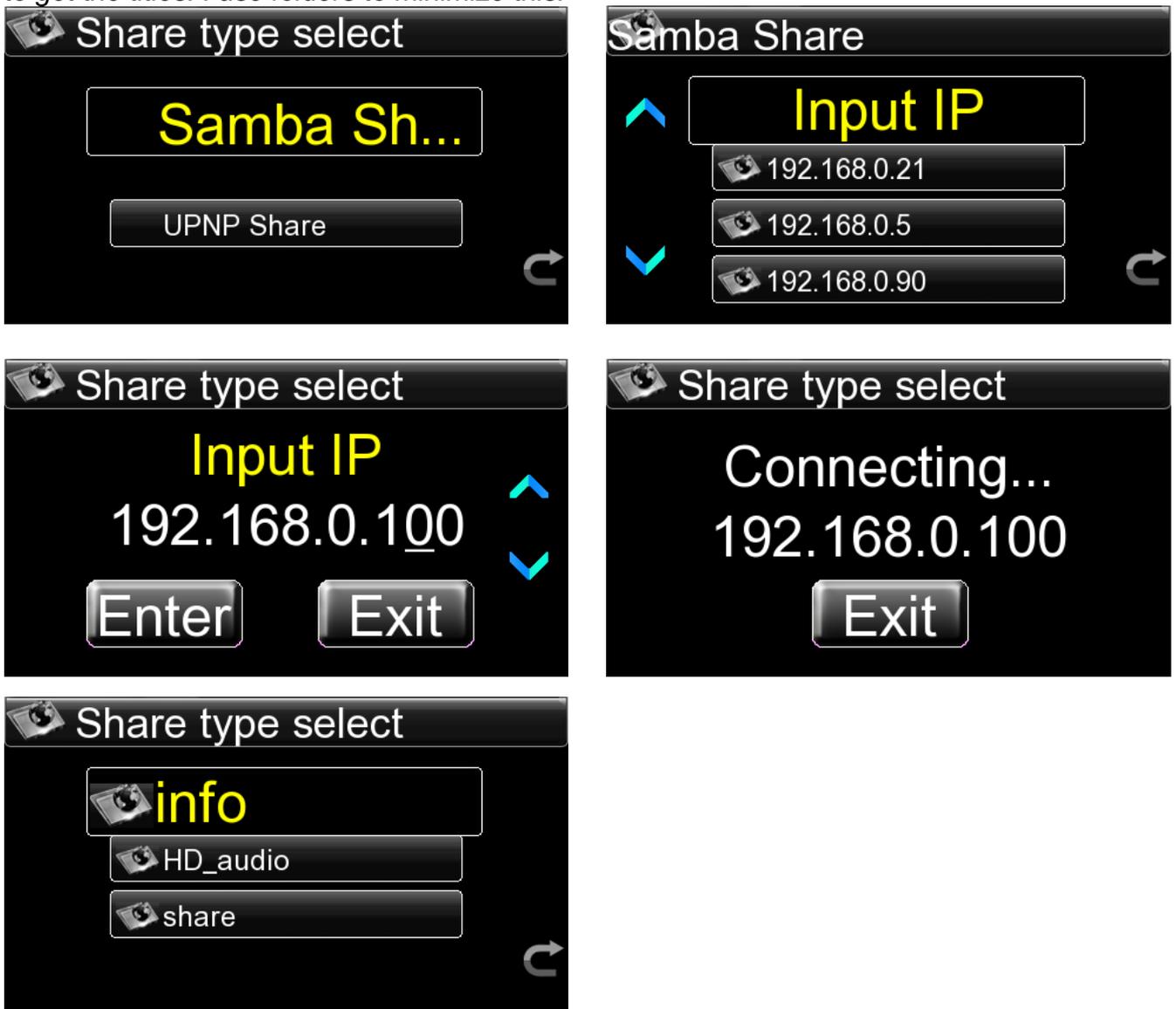
you entered, re-enter this number into '8' above.

10. Go back to the main menu and navigate to Internet Radio and select 'Area Catalog' to see if you are properly connected. It should only take a few seconds for countries to list, if it reverts back to the previous screen then something isn't setup right. Reboot and try the Internet Radio again, if still not working, then repeat the instructions so far again and check that all input addresses are correct, if still not working it is time for the dreaded '*contact your network administrator*' which is not us:)



If 10 is successful, it is time to connect the D-7 to your computer. You will need to set up sharing to the folder(s) and/or hard drive(s) on your computer. Instructions for this will be found in your computer's OS help files.

11. Navigate to Net Source/ Samba Sh.../Input IP (UPNP Share not fully implemented yet for all OS's, but works fine with Windows 7 in our setup). Input the IP of the computer you set up for sharing files, see 'c' above for the IP address. In my case it is 192.168.0.100, hit enter and you will see a connecting screen, then in a few seconds you should see the folders and/or drives that you set for sharing. Note that if a folder has a large number of files, it can take up to 30 seconds to scan all the files to get the titles. I use folders to minimize this.



Set up Wireless Network

If all is good above then it is time to set up the wireless network, assuming you have the optional wireless dongle from GF or Opera. We suggest only using the ones we provide, with all the different types out there, odds are they may not work.

In our example we are using WEP Shared encryption, this works well with the D-Linear 7 and our router, you results may vary, if not connecting or not working right, try different connection or encryption method, as a last resort you can disable encryption for trouble shooting, then work on your security method that allows the D-7 to integrate with your network. If you end up changing your router settings, make sure you set your other network clients up to the new settings.

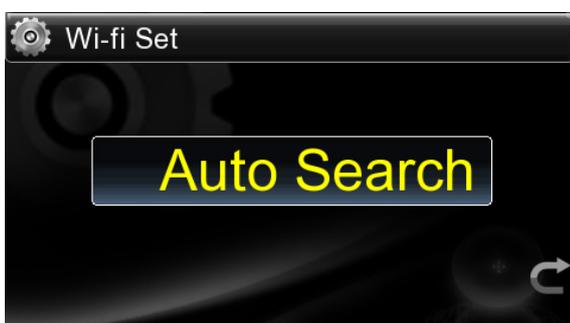
12. Navigate back to Setup/Network/NetType and select Wireless, go back.

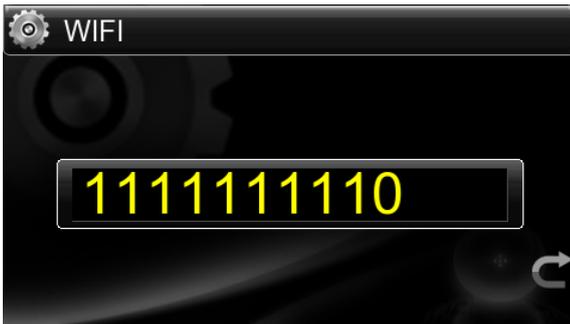


13. Select Wi-Fi Set, click 'enter' on the Auto Search screen or remote, you will see 'Searching' and then a list of networks you can hook up to. Select the relevant network, if you are using a password protected and encrypted router, select the type of key if prompted or enter the network password if only that screen appears. You will see connecting, if all is good, the next screen will say Wi-Fi IP Added, you are done go back to the top menu.

If not successful at any point above, you will get a screen that says password error or it will stay in the same connecting screen, if not connected or moved onto the next screen within 10 seconds, go back and try a different IP Address, see '8' above, then repeat instruction '13', if still doesn't add the Wi-Fi IP Address or move to the next screen then try a different encryption method on your network router until you find one that works. If encryption fails to connect, you can disable encryption to see if it works fine and then troubleshoot from there. *Note that by disabling encryption on your router your network will open to everyone, not suggested to leave in this state.*

If you get the Wi-Fi Scan Failed screen, then there is something wrong with with the wireless adapter and your router, you will not be able to use wireless until it is sorted.





14. Repeat 10 and 11 above to confirm your wireless is working fine.

15. Write down your settings in case your network changes or the D-7 loses it's settings

You should be all set up now, reboot the D-7 and test both wired and wireless operation. If all good then see how extremely cool the UPNP is for doing playlists, or sorting by styles etc from your library.

Remember that to do 192k/24 bit files, you need to be running wired from your computer to the router and from your router to the D-Linear 7. Once you introduce wireless then you are limited to 96k/24 bit files. No matter which enjoy your basically jitter free high end high resolution audio playback.