

DI-707P

Ethernet Broadband Router

User's Manual

*(Please refer to the **Quick Install Guide** for installation instructions.)*

Table of Contents

Introduction.....	4
Functions and Features.....	4
Introduction to Broadband Router Technology.....	6
Introduction to Firewalls	6
Introduction to Local Area Networking	7
Introduction to Virtual Private Networking	7
Contents of Package.....	9
Panel Layout.....	10
Installation Requirements.....	11
Network Settings	12
Configuring the Ethernet Broadband Router	14
Start-up and Log in.....	14
Device Information	15
Useful Tools	16
Setup	17
DHCP Server	20
Virtual Server	21
Special Applications	22
Access Control	23
Miscellaneous Items	24
MAC Address Control.....	25
Configuring on Unix based Platforms.....	26
Appendix A: Resetting the System Password or the IP Address.....	27
Appendix B TCP/IP Configuration for Windows 95/98	28

B.1 Install TCP/IP Protocol into Your PC	28
B.2 Set TCP/IP Protocol for Working with the DI-707P	30
Technical Specifications.....	37
Contacting Technical Support.....	39
D-Link Locations Worldwide.....	40
Limited Warranty	42
Registration.....	46

Introduction

Congratulations on your purchase of this outstanding Broadband Router. The DI-707P is specifically designed for Small Office and Home Office needs. It provides a complete solution for Internet surfing and office resources sharing, and it is easy to configure and operate for even non-technical users. Instructions for installing and configuring the DI-707P can be found in the enclosed “Quick Install Guide.” Before you install and use the DI-707P, please read this manual carefully for more detailed information and to fully utilize its functions.

Functions and Features

- **Broadband modem and IP sharing**
Connects multiple computers to a broadband (cable or DSL) modem to surf the Internet.
- **Auto-sensing Ethernet Switch**
Equipped with a 7-port auto-sensing Ethernet switch.
- **VPN supported**
Supports multiple PPTP sessions and allows you to setup VPN server and VPN clients.
- **Printer sharing (Optional)**
Embeds a print server to allow all of the networked computers to share one printer.
- **Firewall**
All unwanted packets from outside intruders are blocked to protect your network.
- **DHCP server supported**
All of the networked computers can retrieve TCP/IP settings automatically from the DI-707P.
- **Web-based configuring**
Configurable through any networked computer’s web browser using Netscape or Internet Explorer.

- **Access Control supported**
Allows you to assign different access rights for different users.
- **Virtual Server supported**
Enables you to expose WWW, FTP and other services on your LAN to be accessible to Internet users.
- **User-Definable Application Sensing Tunnel**
User can define the attributes to support the special applications requiring multiple connections, like Internet gaming, video conferencing, Internet telephony and so on; then the DI-707P can sense the application type and open a multi-port tunnel for it.
- **DMZ Host supported**
Allows a networked computer to be fully exposed to the Internet; this function is used when the special “application-sensing tunnel feature” is insufficient to allow an application to function correctly.

Introduction to Broadband Router Technology

A router is a device that forwards data packets from a source to a destination. Routers forward data packets using IP addresses and not a MAC address. A router will forward data from the Internet to a particular computer on your LAN.

The information that makes up the Internet gets moved around using routers. When you click on a link on a web page, you send a request to a server to show you the next page. The information that is sent and received from your computer is moved from your computer to the server using routers. A router also determines the best route that your information should follow to ensure that the information is delivered properly.

A router controls the amount of data that is sent through your network by eliminating information that should not be there. This provides security for the computers connected to your router, because computers from the outside cannot access or send information directly to any computer on your network. The router determines which computer the information should be forwarded to and sends it. If the information is not intended for any computer on your network, the data is discarded. This keeps any unwanted or harmful information from accessing or damaging your network.

Introduction to Firewalls

A firewall is a device that sits between your computer and the Internet that prevents unauthorized access to or from your network. A firewall can be a computer using firewall software or a special piece of hardware built specifically to act as a firewall. In most circumstances, a firewall is used to prevent unauthorized Internet users from accessing private networks or corporate LAN's and Intranets.

A firewall watches all of the information moving to and from your network and analyzes each piece of data. Each piece of data is checked against a set of criteria that the administrator configures. If any data does not meet the criteria, that data is blocked and discarded. If the data meets the criteria, the data is passed through. This method is called packet filtering.

A firewall can also run specific security functions based on the type of application or type of port that is being used. For example, a firewall can be configured to work with an FTP or Telnet server. Or a firewall can be configured to work with specific UDP or TCP ports to allow certain applications or games to work properly over the Internet.

Introduction to Local Area Networking

Local Area Networking (LAN) is the term used when connecting several computers together over a small area such as a building or group of buildings. LAN' s can be connected over large areas. A collection of LAN' s connected over a large area is called a Wide Area Network (WAN).

A LAN consists of multiple computers connected to each other. There are many types of media that can connect computers together. The most common media is CAT5 cable (UTP or STP twisted pair wire.) On the other hand, wireless networks do not use wires; instead they communicate over radio waves. Each computer must have a Network Interface Card (NIC), which communicates the data between computers. A NIC is usually a 10Mbps network card, or 10/100Mbps network card, or a wireless network card.

Most networks use hardware devices such as hubs or switches that each cable can be connected to in order to continue the connection between computers. A hub simply takes any data arriving through each port and forwards the data to all other ports. A switch is more sophisticated, in that a switch can determine the destination port for a specific piece of data. A switch minimizes network traffic overhead and speeds up the communication over a network.

Networks take some time in order to plan and implement correctly. There are many ways to configure your network. You may want to take some time to determine the best network set-up for your needs.

Introduction to Virtual Private Networking

Virtual Private Networking (VPN) uses a publicly wired network (the Internet) to securely connect two different networks as if they were the same network. For example, an employee can access the corporate network from home using VPN, allowing the employee to access files and printers. Here are several different implementations of VPN that can be used.

Point-to-Point Tunneling Protocol (PPTP)

PPTP uses proprietary means of connecting two private networks over the Internet. PPTP is a way of securing the information that is communicated between networks. PPTP secures information by encrypting the data inside of a packet.

IP Security (IPSec)

IPSec provides a more secure network-to-network connection across the Internet or a Wide Area Network (WAN). IPSec encrypts all communication between the client and server whereas PPTP only encrypts the data packets.

Both of these VPN implementations are used because there is not a standard for VPN server software. Because of this, each ISP or business can implement its own VPN network making interoperability a challenge.

Contents of Package



DI-707P Ethernet Broadband Router

DI-707P Ethernet Broadband Router

Installation CD-ROM

Power cord and power adapter

CAT-5 UTP Fast Ethernet Cable

Panel Layout

Front Panel



M1&M2 System status indicators, *Orange*. M1 is flashed once per second to indicate system is active. When system is busy, M2 is lighted.

Broadband & LAN Ethernet port indicators, *Green*. The LED flickers when the LAN or WAN port is sending or receiving data.

Link/Act. Link status indicators, *Green*. The LED flickers when the corresponding port is sending or receiving data

10/100 10/100 status indicators, *Green*. The LED flickers when the corresponding port is transmitting or receiving data in 10 or 100Mbps.

Side Panel

RESET To reset system settings to factory defaults, please follow the steps:

1. Power off the device
2. Press the reset button and hold
3. Power on the device
4. Keep the button pressed about 5 seconds
5. Release the button
6. Watch the M1 and M2 LEDs, they will flash 8 times and then the M1 will flash once per second

POWER Power port. Connect one end of your included power adapter to the power port and the other end into your power outlet

Note: The included power adapter is DC 5V/2A. Using the wrong type of power adapter may cause product damage.

Rear Panel



- PRINTER** Parallel port connector (25-pins D-type female.) This is where you will connect the shared printer. (Optional)
- COM** Serial port connector (9-pins D-type male.) This is where you can connect a back-up dial-up modem. This port is also a console port.
- Broadband** WAN port socket (CAT5 Ethernet RJ-45 cable). This is where you will connect to your cable or DSL modem.
- PORTS 1-7** LAN port sockets (CAT5 Ethernet RJ-45 cable.) The LED glows steadily when a port is connected to a hub, switch or network-adapter-equipped computer in your local area network (LAN.)

Installation Requirements

The DI-707P can be positioned at any convenient place in your office or house. No special wiring or cooling requirements are needed. However, you should comply with the following guidelines:

- Place the DI-707P on a flat horizontal plane.
- Keep away from any heating devices.
- Do not place in a dusty or wet environment.

The recommended operational specifications of the DI-707P are:

Temperature	32° F ~ 131° F
Humidity	5 % ~ 90 %

In addition, remember to turn off the power, remove the power cord from the outlet, and keep your hands dry when you install the hardware.

Network Settings

To use the DI-707P correctly, you have to properly configure the network settings of your computers.

The default *IP address* of the DI-707P is 192.168.0.1, and the default *subnet mask* is 255.255.255.0. These addresses can be changed as needed, but the default values are used in this manual. If the TCP/IP environment of your computer has not yet been configured, you can refer to **Appendix B** to configure it. For example,

1. configure *IP* as 192.168.0.3, *subnet mask* as 255.255.255.0 and *gateway* as 192.168.0.1, or more conveniently,
2. configure your computers to load TCP/IP setting automatically, that is, via the DHCP server of the DI-707P.

After installing the TCP/IP communication protocol, you can use the **ping** command to check if your computer has successfully connected to the DI-707P. The following example shows the ping procedure for Windows 95 platforms. First, execute the **ping** command

```
ping 192.168.0.1
```

If the following messages appear:

```
Pinging 192.168.0.1 with 32 bytes of data:
```

```
Reply from 192.168.0.1: bytes=32 time=2ms TTL=64
```

a communication link between your computer and the DI-707P has been successfully established. However, if you get the following messages:

```
Pinging 192.168.0.1 with 32 bytes of data:
```

```
Request timed out.
```

this indicates that the installation is not successful. Please check the following items in sequence:

1. *Is the Ethernet cable correctly connected between the DI-707P and your computer?*

The LAN LED of the DI-707P and the link LED of the network adapter card on your computer must be lighted.

2. *Is the **TCP/IP** of your computers properly configured?*

If the IP address of the DI-707P is 192.168.0.1, the IP address of your computer must be 192.168.0.X (where “X” is a number between 2 and 254. Each computer on your network must have a different IP address within that range where “X” represents a number between 2 and 254.) The default gateway must be 192.168.0.1.

Configuring the Ethernet Broadband Router

The DI-707P provides Web based configuration. You can configure your DI-707P through your Netscape Communicator or Internet Explorer browser in MS Windows, Macintosh or UNIX based platforms.

Start-up and Log in



Activate your browser, and **disable the proxy** or **add the IP address of the DI-707P into the exceptions**. Then, type the IP address of the DI-707P into the *Location* (for Netscape) or *Address* (for IE) field and press “Enter.” For example: **http://192.168.0.1**.

After the connection is established, you will see the web user interface. There are two appearances of web user interface: *for general users* and *for the system administrator*.

To log in as an administrator, enter the system password (the factory setting is “*admin*”) in the **System Password** field and click on the **Log in** button. If the password is correct, the web appearance will be changed into administrator configure mode. As listed in its main menu, there are several options for system administration.

Device Information

D-Link Cable/DSL Residential Gateway **DI-707P**

Device Information

Lease Time	00:00:00	<input type="button" value="Renew"/>
IP Address	0.0.0.0	
Subnet Mask	0.0.0.0	
Gateway	0.0.0.0	
Domain Name Server	0.0.0.0	

Modem	Not ready	
Printer	Not ready	

Firmware version	---	
MAC Address	FF-FF-FF-FF-FF-FF	

Display time: 09/17/2001 09:27:33

[Information](#) [Tools](#) [Setup](#) [DHCP](#) [Advanced](#)

This option allows you to observe the DI-707P's working status:

- A. Modem Status
- B. Printer Status. The possible kinds of printer status include "Ready," "Not ready," "Printing..." and "Device error."

When a job is printing, there may appear a "Kill Job" button on the "Sidenote" column. You can click this button to stop the current printing job manually.

Useful Tools

D-Link		Cable/DSL Residential Gateway		DI-707P	
Useful Tools					
Change Password	Old Password	<input type="text"/>			
	New Password	<input type="text"/>			
	Reconfirm	<input type="text"/>	<input type="button" value="OK"/>	<input type="button" value="Clear"/>	
Other tools	<input type="button" value="View Log"/>	<input type="button" value="Reboot"/>	<input type="button" value="Backup Setting"/>		
	<input type="button" value="Clone MAC"/>	<input type="button" value="Reset to Default"/>	<input type="button" value="Firmware Upgrade..."/>	<input type="button" value="Help"/>	

[Information](#) [Tools](#) [Setup](#) [DHCP](#) [Advanced](#)

This function enables you to change the administrator password, and get information about the **Firmware version** and the **WAN's MAC Address**.

At this window you can:

- View the system logs by clicking the **View Log** button.
- Restart the DI-707P by clicking the **Reboot** button.
- Backup your settings by clicking the **Backup Setting** button and save it as a bin file. Once you want to restore these settings, please click the **Firmware Upgrade** button and use the bin file you saved.
- Click the **Clone MAC** button to copy the MAC address of your PC to be the MAC address of this device.
- Click the **Reset to Default** button to reset the settings of this device to the default values.
- Upgrade the firmware by clicking the **Firmware Upgrade** button.

Note: we strongly recommend that you change the system password for security reasons.

Setup

Setup	
LAN IP Address	<input type="text" value="192.168.0.1"/>
WAN Type	Dynamic IP Address <input type="button" value="Change..."/>
Host Name	<input type="text"/> (optional)
Renew IP Forever	<input type="checkbox"/> Enable

[Information](#) [Tools](#) [Setup](#) [DHCP](#) [Advanced](#)

Before you begin the **Setup**, you must choose the correct **WAN** type.

1. **LAN IP Address:** the DI-707P's IP address. The default address is 192.168.0.1. You can change the LAN IP Address if needed.
2. **WAN Type:** your ISP's WAN Connection type. Click the **Change** button to choose from the following five options:
 - A. **Static IP Address:** you manually input the IP Address that your ISP assigned to you.
 - B. **Dynamic IP Address:** Obtain an IP address automatically from the DI-707P's DHCP Server function.
 - C. **PPP over Ethernet:** Some ISPs require the use of PPPoE to connect to their services.
 - D. **Dial-up Network:** To surf the Internet via PSTN/ISDN (a dial-up modem.)
 - E. **PPTP:** Some ISPs require the use of PPTP to connect to their services. It is specifically for many European ISPs where Alcatel's ADSL Network Termination is deployed.

Below are the five WAN types and the fields required to implement them:

1. Static IP Address

Enter the proper setting provided by your ISP for the following fields :
WAN IP Address, Subnet Mask, Gateway, Primary and Secondary DNS

2. **Dynamic IP Address**

- *Host Name*: optional. Required by some ISPs, for example, @Home.
- *Renew IP Forever*: this feature enables the DI-707P to renew the IP address automatically when the lease time is expired even if the system is in an idle state.

3. **PPP over Ethernet**

- *PPPoE Account and Password*: the account and password your ISP assigned to you. If you don't want to change the password, leave the password field blank.
- *PPPoE Service Name*: (optional) Input the service name if your ISP requires it.
- *Maximum Idle Time*: set the length of "no activity" time at which to disconnect your PPPoE session. Setting it to "0" will disable this feature.

4. **Dial-up Network**

- *Dial-up Telephone, Account and Password*: assigned by your ISP. If you don't want to change the password, keep it empty.
- *Primary and Secondary DNS*: automatically assigned if they are configured as "0.0.0.0."
- *Maximum Idle Time*: the length of "no activity" time at which to disconnect your dialUp session.
- *Baud Rate*: the communication speed between the DI-707P and your MODEM or ISDN TA.
- *Extra Setting*: needed to optimize the communication quality between the ISP and your MODEM or ISDN TA

5. **PPTP**

Just follow steps below to configure the PPTP WAN type:

- Set *My IP Address* as the IP address that the ISP assigned to your PC, e.g. 10.0.0.140.
- Set *My Subnet Mask* as the mask that the ISP assigned to your PC, e.g. 255.255.255.0.
- Set *Server IP Address* as the IP address of the DSL modem, e.g. 10.0.0.138.
- Input the *PPTP Account* and *Password*.
- Input the *Connection ID* if your ISP requires it.
- Save the setting and restart the router.
- In the *Command* prompt, type **PING 4.0.0.1**. If the reply is positive, the router and your PC have been successfully configured for PPTP WAN type.

DHCP Server

DHCP Server	
DHCP Server	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
IP Pool Starting Address	100
IP Pool Ending Address	199
Domain Name	

Save Undo Fixed Mapping... Help

[Information](#) [Tools](#) [Setup](#) [DHCP](#) [Advanced](#) [Log out](#)

The DI-707P includes a DHCP Server. If you select “Enable” the DHCP Server, and you configure the computers on your network to “Obtain an IP Address automatically,” then when you turn your computer “ON,” it will automatically load the proper TCP/IP settings from the DI-707P. You will not have to configure all the TCP/IP settings for your network manually.

The settings for the DHCP server are as follows:

1. **DHCP Server:** Choose “Disable” or “Enable.”
2. **The range of the IP Address Pool:** Whenever there is a request, the DHCP server will automatically allocate an unused IP address from the *IP address pool* to the requesting computer. You must specify the starting and ending address of the IP address pool.
3. **Domain Name :** Optional, this information will be passed to the client. To View the DHCP clients, you can click the **Clients List** button.

Virtual Server

D-Link

Cable/DSL Residential Gateway

DI-707P

Virtual Server

ID	Service Ports	Server IP	Enable
1	<input type="text"/>	192.168.0. <input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	192.168.0. <input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	192.168.0. <input type="text"/>	<input type="checkbox"/>
4	<input type="text"/>	192.168.0. <input type="text"/>	<input type="checkbox"/>
5	<input type="text"/>	192.168.0. <input type="text"/>	<input type="checkbox"/>
6	<input type="text"/>	192.168.0. <input type="text"/>	<input type="checkbox"/>
7	<input type="text"/>	192.168.0. <input type="text"/>	<input type="checkbox"/>
8	<input type="text"/>	192.168.0. <input type="text"/>	<input type="checkbox"/>
9	<input type="text"/>	192.168.0. <input type="text"/>	<input type="checkbox"/>

Well known services: Copy to ID:

[Virtual Server](#) [Special AP](#) [Access Control](#) [Misc Items](#) [Basic](#)

The firewall filters out unrecognized packets to protect your Intranet; so all computers networked with the DI-707P are invisible to the outside world. If you wish, you can make some of them accessible by enabling the *Virtual Server Mapping*.

A virtual server is defined as a **Service Port**, and all requests to this port will be redirected to the computer specified by the **Server IP**.

For example, if you have an FTP server (port 21) at 192.168.0.1, a Web server (port 80) at 192.168.0.2, and a VPN server at 192.168.0.6, then you need to specify the following virtual server-mapping table:

Service Port	Server IP	Enable
21	192.168.0.1	V
80	192.168.0.2	V
1723	192.168.0.6	V

Special Applications

D-Link**Cable/DSL Residential Gateway****DI-707P**

Special Applications

ID	Trigger	Incoming Ports	Enable
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
4	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

Popular applications -- select one -- Copy to ID --

Save Undo Help

[Virtual Server](#) [Special AP](#) [Access Control](#) [Misc Items](#) [Basic](#) [Log out](#)

Some applications require multiple connections, like Internet games, Video conferencing, Internet telephony and so on. Due to the firewall function, these applications cannot work without some intervention. **Special Applications** makes some of these applications work with the DI-707P. If **Special Applications** is still insufficient to allow an application to function correctly, try the **DMZ Host** in the **Miscellaneous Items** options.

Trigger: the outbound port number the application issued first.

Incoming Ports: when the trigger packet is detected, the inbound packets to the specified port numbers are allowed to pass the firewall.

The DI-707P provides some predefined settings in the gray pad on the bottom of the web page. Select your application in the **Popular applications** pull-down menu and click **Copy to** in order to copy the predefined setting.

Note! *At any time, only one PC can use each Special Application tunnel.*

Access Control

Item	Setting
▶ Access Control	<input type="checkbox"/> Enable
▶ Default Group: all hosts except those listed on the other groups	
Block ports	
▶ Group 1 members	
Block ports	
▶ Group 2 members	
Block ports	
▶ Group 3 members	
Block ports	

Save Undo MAC Level... Help

[Virtual Server](#) [Special AP](#) [Access Control](#) [Misc Items](#) [Basic](#) [Log out](#)

Access Control allows you to assign different access rights for different users. First, you have to divide users into different groups. Users are identified by their IP addresses. You can assign members to **Groups 1, 2 and 3**. The others are all members of the **Default Group**. Next, you have to assign the **Access Right** of each group. **Access Right** can allow or block users access to specified TCP and UDP ports. For example:

Group	Members	Access Right	Comments
Default	-	Allow ()	No access right (allow nothing)
Group 1	100-199	Allow (25,53,80,110)	Can browse (80), receive (110) and send (25) email only
Group 2	50-99	Block (21,119)	Cannot read net news (119) and FTP (21) only
Group 3	1-9,20	Block ()	Full access (block nothing)

Miscellaneous Items

D-Link		Cable/DSL Residential Gateway		DI-707P
Miscellaneous Items				
IP Address of DMZ Host	192.168. 0 .	<input type="text"/>	<input type="checkbox"/> Enable	
Remote Administrator Host	0.0.0.0	<input type="text"/>	<input type="checkbox"/> Enable	
Non-standard FTP port	0	<input type="text"/>		
Discard PING from WAN side			<input type="checkbox"/> Enable	
Save Undo Help				
Virtual Server Special AP Access Control Misc Items Basic <input type="button" value="Log out"/>				

IP Address of the DMZ Host: The DMZ (Demilitarized Zone) Host is a host without the protection of a firewall. It allows a computer to be exposed to unrestricted 2-way communication.

(Note: this feature should be used only when needed.)

Remote Administrator Host: In general, only a member of your network can browse the built-in web pages to perform “Administrator” tasks. This feature enables you to perform “Administrator” tasks from the remote host. If this feature is enabled, only the specified IP address can perform remote administration. If the specified IP address is 0.0.0.0, any host can connect to the DI-707P to perform “Administrator” tasks.

When this feature is enabled, the web port will be shifted to 88.

Non-standard FTP port: You have to configure this item if you want to access an FTP server whose port number is not 21. *This setting will be lost after rebooting.*

MAC Address Control

D-Link Cable/DSL Residential Gateway **DI-707P**

MAC Address Control

Item	Setting
▶ MAC Address Control	<input type="checkbox"/> Enable
<input type="checkbox"/> Connection control	Clients with <input type="checkbox"/> checked can connect to this device, and <input type="text" value="allow"/> unspecified MAC addresses to connect.

ID	MAC Address	IP Address	C
1	<input type="text"/>	192.168.0. <input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	192.168.0. <input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	192.168.0. <input type="text"/>	<input type="checkbox"/>
4	<input type="text"/>	192.168.0. <input type="text"/>	<input type="checkbox"/>

DHCP clients: -- select one -- Copy to ID: --

[Previous page](#) [Next page](#) [Save](#) [Undo](#) [Help](#)

[Virtual Server](#) [Special AP](#) [Access Control](#) [Misc Items](#) [Basic](#) [Log out](#)

MAC Address Control allows you to assign different access rights for different users and to assign a specific IP address to a certain MAC address.

MAC Address Control Check **Enable** to enable the **MAC Address Control**. All of the settings in this page will take effect only when **Enable** is checked.

Connection control Check **Connection control** to control what wired and wireless clients can connect to this device. If a client is denied connection to this device, it means the client can't access the Internet either. Choose "allow" or "deny" to allow or deny the clients, whose MAC addresses are not in the "Control table" (please see below), to connect to this device.

MAC Address	MAC address indicates a specific client.
IP Address	Expected IP address of the corresponding client. You may choose to leave this field empty.
C	When " Connection control " is checked, check " C " to allow the corresponding client to connect to this device.

Near the bottom of the **MAC Address Control** window, the following pull-down menu and button will help you to input the MAC address.



Select a specific client in the “**DHCP clients**” pull-down menu.

Click on the “**Copy to**” button to copy the MAC address of the DHCP client you select to the ID selected in the “**ID**” pull-down menu.

Previous page and Next Page At the bottom of the **MAC Address Control** window you will find these two buttons. Use them to navigate between the several pages of the **MAC Address Control** function.

Configuring on Unix based Platforms

Please follow the traditional configuration procedure on Unix platforms to setup the print server of the DI-707P. The printer name is “lp.”

Appendix A: Resetting the System Password or the IP Address

When you forget the system password or the IP address of the DI-707P, you will need to reset them.

Use a **null modem cable** (an RS-232 cable) to connect your computer and the DI-707P using the serial ports of both machines (the **com** port on the DI-707P is a serial port.)

After you have made the connection, launch a terminal program, such as the **Hyper Terminal** of MS Windows 95. The connection parameters should be set to **19200 8N-1**. Reboot the DI-707P. When the M1 indicator starts flashing regularly, you can press the **'Enter'** key of the keyboard several times, there should be some messages and a console prompt ">" will appear.

You may reset the IP address and the system password of the DI-707P. Please remember to execute the **SR** command to save the changes you have made. For example,

```
IP 192.168.0.1
```

```
PW admin
```

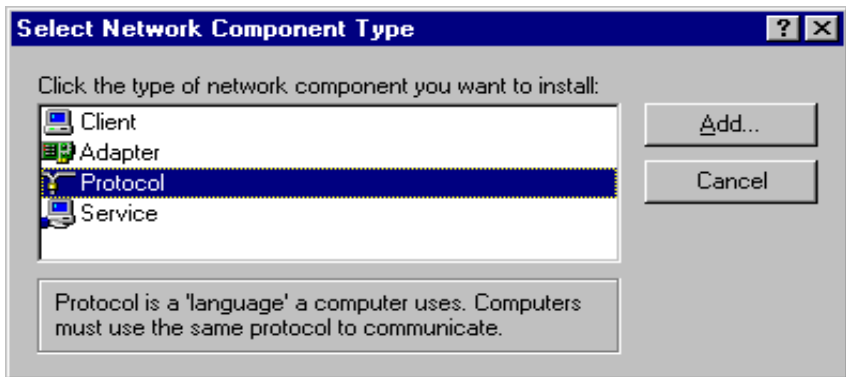
```
SR
```

Appendix B TCP/IP Configuration for Windows 95/98

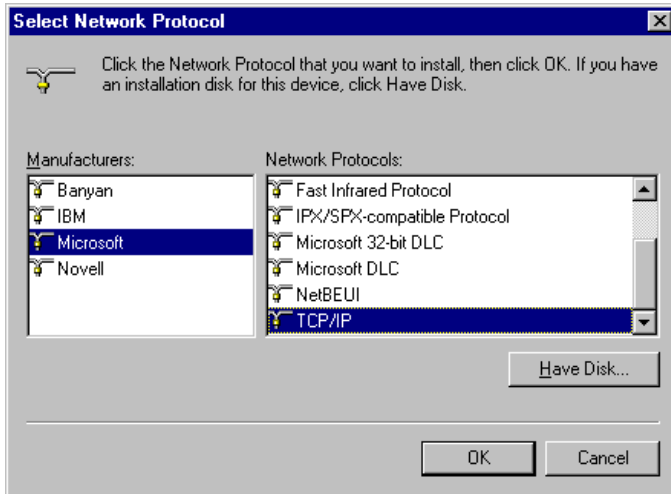
This section shows you how to install TCP/IP protocol into your personal computer after you have successfully installed one network card. (If you have not, please refer to your network card manual.) Section B.2 tells you how to set TCP/IP values for working with the DI-707P.

B.1 Install TCP/IP Protocol into Your PC

1. Go to **Start > Settings**, then click **Control Panel**
2. Double click the **Network** icon and select the **Configuration** tab in the Network window.
3. Click the **Add** button.
4. Double click **Protocol** to add TCP/IP protocol.



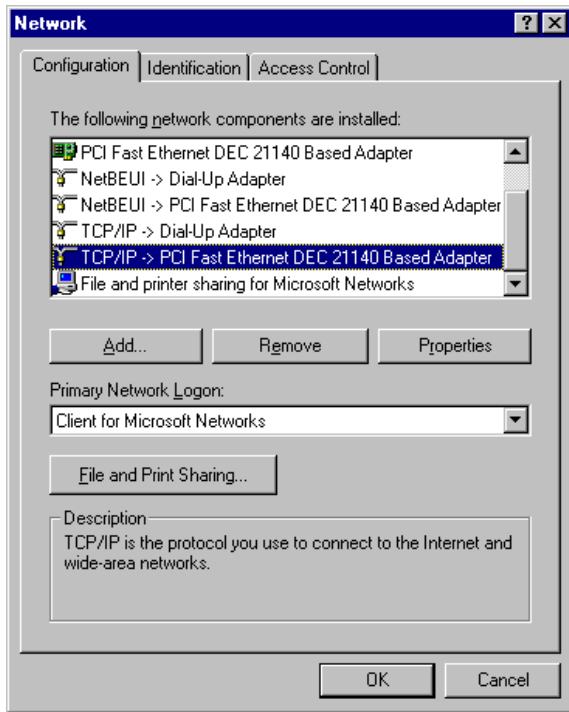
5. Select **Microsoft** in the **Manufacturers** list. And choose **TCP/IP** in the **Network Protocols** list. Click **OK** to return to the Network window.



6. The **TCP/IP protocol** will be listed in the Network window. Click **OK** to complete the install procedure. **Restart** your PC to enable the TCP/IP protocol.

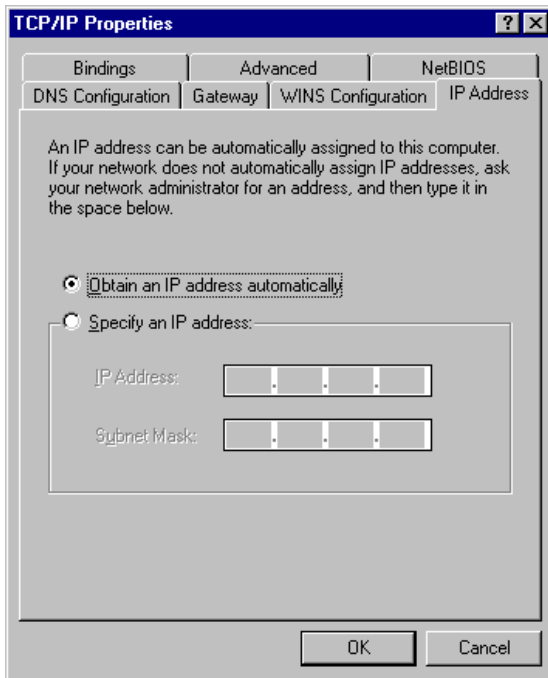
B.2 Set TCP/IP Protocol for Working with the DI-707P

1. Go to **Start > Settings**, then click **Control Panel**
2. Double click the **Network** icon. Select the TCP/IP line that has been associated to your network card in the **Configuration** tab of the Network window.

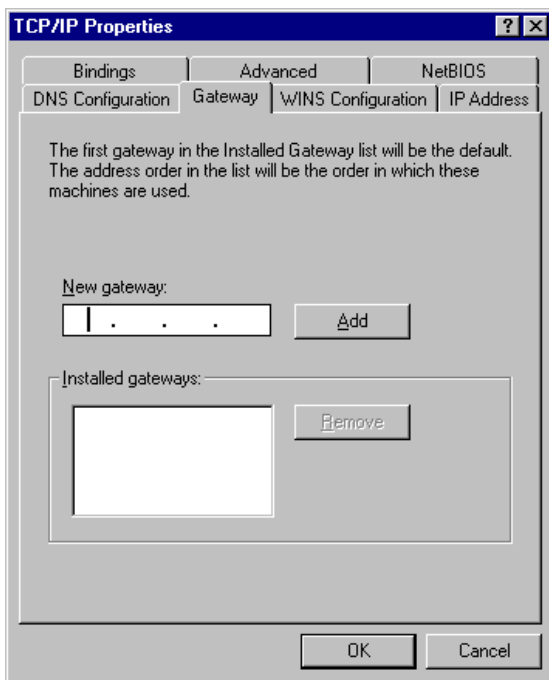


3. Click the **Properties** button to set the TCP/IP protocol for the DI-707P.
4. You have two ways of setting the TCP/IP. First, by **obtaining an IP address automatically** and second, by **specifying a static IP address**:
 - A. **Obtaining an IP address automatically** from the DHCP server (also called a **“dynamic IP address.”**)

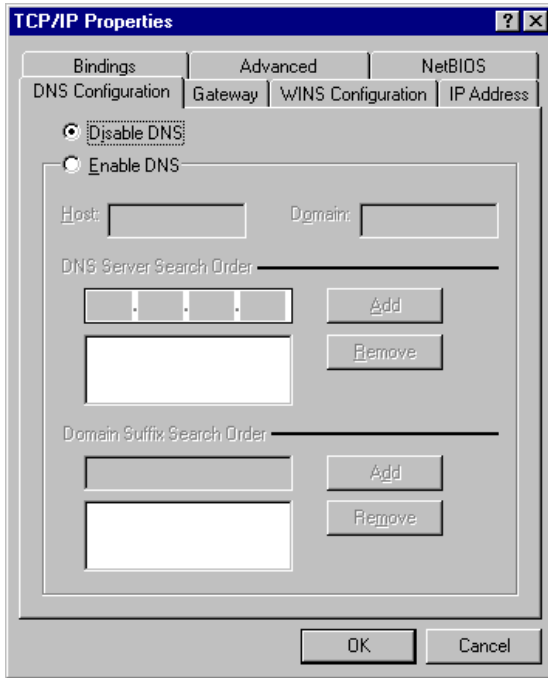
- a. Select **Obtain an IP address automatically** in the **IP Address** tab.



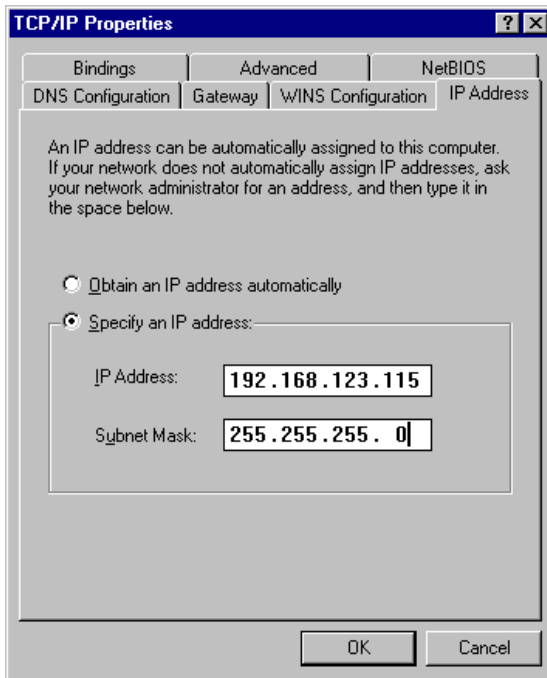
- b. Don't input any value in the **Gateway** tab.



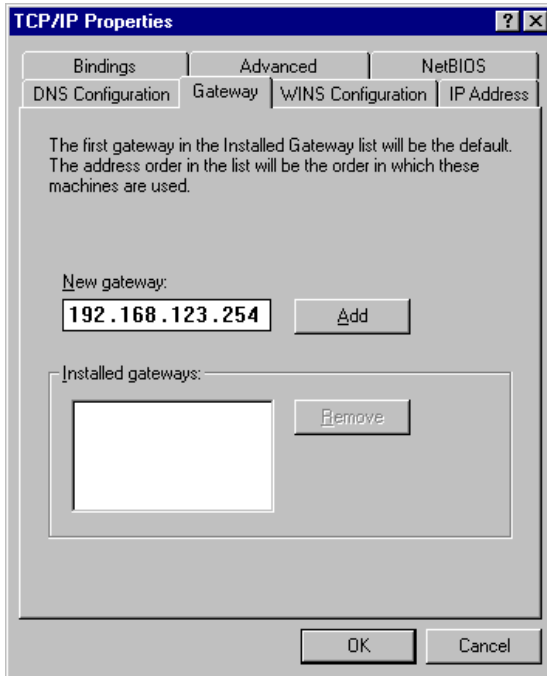
- c. Choose **Disable DNS** in the **DNS Configuration** tab



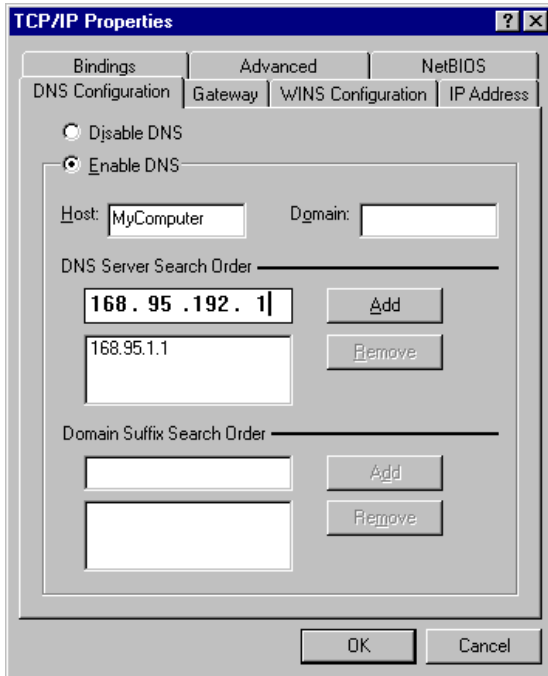
- B. The second way to get an IP address is to input one manually as follows:
- a. Select **Specify an IP address** in the **IP Address** tab. The default IP address of the DI-707P is 192.168.0.1. So please use 192.168.0.xxx (where xxx is between 2 and 254) for the **IP Address** field and 255.255.255.0 for **Subnet Mask** field.



- b. In the **Gateway** tab, add the IP address of the DI-707P (the default IP is 192.168.0.1) in the **New gateway** field and click the **Add** button.



- c. In the **DNS Configuration** tab, add the DNS values which are provided by the ISP into **DNS Server Search Order** field and click the **Add** button.



Technical Specifications

Standards:

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- IEEE 802.3x Flow Control
- ANSI/IEEE 802.3 NWay auto-negotiation

Management:

- Web-Based

VPN Pass Through Function*:

- PPTP
- IPSec

Ports:

- 7 x NWay 10BASE-T/100BASE-TX Fast Ethernet LAN (Media Auto Sensing)
- 1 x 10BASE-T WAN
- 1 x RS-232 (DB-9)
- 1 Printer Port (Female DB-25)

LED's:

- WAN Activity
- LAN Link Activity
- M1 – Status
- M2 – Status

Power:

- DC 5V/2.5A

Operating Temperature:

- 5 ~ 55

Humidity:

- 10% ~ 90%

Contacting Technical Support

You can find the most recent software and user documentation on the D-Link website.

D-Link provides free technical support for customers within the United States for the duration of the warranty period on this product.

U.S. customers can contact **D-Link** technical support through our web site, by e-mail, or by phone.

United States technical support is available Monday through Friday from 6:00 a.m. to 6:00 p.m. (PST.)

Web: <http://www.dlink.com>

E-mail: support@dlink.com

Phone: 1-949-790-5290

If you are a customer residing outside of the United States, please refer to the list of **D-Link** locations that is included in this manual.

Thank you for purchasing this product. We like to receive feedback from our customers concerning our products. Please take a moment to visit our web site. **You can register your purchase on-line**, learn more about the newest networking products, and let us know the things your new network has empowered you to do.

D-Link Locations Worldwide

D-Link Australia
Unit 16, 390 Eastern Valley Way
Roseville, NSW 2069,
Australia
TEL: 61-2-94177100
FAX: 61-2-94171077
URL: www.dlink.com.au

D-Link Benelux
Fellenoord 1305611 ZB
EindhovenThe Netherlands
TEL: 31-40-2668713
FAX: 31-40-2668666
URL: www.dlink-benelux.nl/

D-Link Canada
#2180 Winston Park Drive
Oakville, Ontario, L6H 5W1
Canada
TEL: 1-905-8295033
FAX: 1-905-8295095
URL: www.dlink.ca

D-Link China
2/F., Sigma Building, 49 Zhichun Road,
Haidian District, 100080 Beijing,
China
TEL: 86-10-88097777
FAX: 86-10-88096789

D-Link South America
Isidora Goyechea 2934 of 702,
Las Condes
Santiago j V Chile S.A.
TEL: 56-2-232-3185
FAX: 56-2-232-0923
URL: www.dlink.cl

D-Link Denmark
Naverland 2, DK-2600
Glostrup, Copenhagen,
Denmark
TEL: 45-43-969040
FAX: 45-43-424347
URL: www.dlink.dk

D-Link Middle East
7 Assem Ebn Sabet Street Heliopolis
Cairo
Egypt
TEL: 20-2-6356176
FAX: 20-2-6356192
URL: www.dlink-me.com

D-Link Finland
Thlli-ja Pakkahuone Katajanokanlaituri 5
FIN-00160 Helsinki
Finland
TEL: 358-9-622-91660
FAX: 358-9-622-91661
URL: www.dlink-fi.com

D-Link France
Le Florilege #.2, Allee de la Fresnerie
78330 Fontenay le Fleury
France
TEL: 33-1-30238688
FAX: 33-1-30238689
URL: www.dlink-france.fr

D-Link Germany
Schwalbacher Strasse 74
D-65760 Eschborn
Germany
TEL: 49-6196-77990
FAX: 49-6196-7799300
URL: www.dlink.de

D-Link India
Plot No.5, Kurla-Bandra Complex Rd.
Off Cst Rd. Santacruz (E),
Bombay - 400 098
India
TEL: 91-22-652-6696
FAX: 91-22-652-8914
URL: www.dlink-india.com

D-Link Italia
via Nino Bonnet n. 6/b
20154 j V Milano,
Italy
TEL: 39-02-2900-0676

FAX: 39-02-2900-1723
URL: www.dlink.it

D-Link Japan
10F, 8-8-15 Nishi-Gotanda
Shinagawa-ku, Tokyo 141,
Japan
TEL: 81-3-5434-9678
FAX: 81-3-5434-9868
URL: www.d-link.co.jp

D-Link Norway
Waldemar Thranesgt. 77,
0175 Oslo Norway
TEL: 47-22-991890
FAX: 47-22-207039

D-Link Russia
Michurinski Prospekt 49,
117607 Moscow,
Russia
TEL: 7-095-737-3389, 7-095-737-3492
FAX: 7-095-737-3390

D-Link International (Singapore)
1 International Bussiness Park
#03-12 The Synergy
Singapore 609917
TEL: 65-774-6233
FAX: 65-774-6322
URL: www.dlink-intl.com

D-Link South Africa
102 - 106 Witchhazel Avenue
Einstein Park 2 Block B
Highveld Technopark
Centurion
South Africa
TEL: 27(0)126652165
FAX: 27(0)126652186

D-Link Spain
Gran Via de Carlos III,
843eX Edificio Trade08028
BARCELONA
TEL: 34 93 4965751
FAX: 34 93 4965701
URL: www.dlinkiberia.es

D-Link Sweden
P.O. Box 15036, S-167 15 Bromma
Sweden
TEL: 46-(0)8564-61900
FAX: 46-(0)8564-61901
URL: www.dlink.se

D-Link Taiwan
2F, No. 119 Pao-Chung Rd.
Hsin-Tien, Taipei
Taiwan
TEL: 886-2-2910-2626
FAX: 886-2-2910-1515
URL: www.dlinktw.com.tw

D-Link U.K.(Europe)
4th Floor, Merit House
Edgware Road, Colindale
London NW9 5AB
U.K.
TEL: 44-20-8731-5555
FAX: 44-20-8731-5511
BBS: 44-181-235-5511
URL: www.dlink.co.uk

D-Link U.S.A
53 Discovery Drive
Irvine, CA 92618
U.S.A.
TEL: 1-949-790-5290
FAX: 1-949-753-7033
URL: www.dlink.com

Limited Warranty

D-Link Systems, Inc. (“D-LINK”) provides this limited warranty for its product only to the person or entity who originally purchased the product from D-Link or its authorized reseller or distributor.

Limited Hardware Warranty: D-Link warrants that the hardware portion of the D-Link products described below (“Hardware”) will be free from material defects in workmanship and materials from the date of original retail purchase of the Hardware, for the period set forth below applicable to the product type (“Warranty Period”) if the Hardware is used and serviced in accordance with applicable documentation; provided that a completed Registration Card is returned to an Authorized D-Link Service Office within ninety (90) days after the date of original retail purchase of the Hardware. If a completed Registration Card is not received by an authorized D-Link Service Office within such ninety (90) period, then the Warranty Period shall be ninety (90) days from the date of purchase.

<i>Product Type</i>	<i>Warranty Period</i>
Product (excluding power supplies and fans), if purchased and delivered in the fifty (50) United States, or the District of Columbia (“USA”)	One (1) Year, limited
Product purchased or delivered outside the USA	One (1) Year
Power Supplies and Fans	One (1) Year
Spare parts and spare kits	Ninety (90) days

D-Link’s sole obligation shall be to repair or replace the defective Hardware at no charge to the original owner. Such repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement Hardware need not be new or of an identical make, model or part; D-Link may in its discretion may replace the defective Hardware (or any part thereof) with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. The Warranty Period shall extend for an additional ninety (90) days after any repaired or replaced Hardware is delivered. If a material defect is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to repair or replace the defective Hardware, the price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware (or part thereof) that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

Limited Software Warranty: D-Link warrants that the software portion of the product (“Software”) will substantially conform to D-Link’s then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original delivery of the Software for a period of ninety (90) days (“Warranty Period”), if the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the

Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects.

D-Link's sole obligation shall be to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for the Software. Except as otherwise agreed by D-Link in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. The Warranty Period shall extend for an additional ninety (90) days after any replacement Software is delivered. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

What You Must Do For Warranty Service:

Registration Card. The Registration Card provided at the back of this manual must be completed and returned to an Authorized D-Link Service Office for each D-Link product within ninety (90) days after the product is purchased and/or licensed. The addresses/telephone/fax list of the nearest Authorized D-Link Service Office is provided in the back of this manual. **FAILURE TO PROPERLY COMPLETE AND TIMELY RETURN THE REGISTRATION CARD MAY AFFECT THE WARRANTY FOR THIS PRODUCT.**

Submitting A Claim. Any claim under this limited warranty must be submitted in writing before the end of the Warranty Period to an Authorized D-Link Service Office. The claim must include a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same. The original product owner must obtain a Return Material Authorization (RMA) number from the Authorized D-Link Service Office and, if requested, provide written proof of purchase of the product (such as a copy of the dated purchase invoice for the product) before the warranty service is provided. After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. The packaged product shall be insured and shipped to D-Link, 53 Discovery Drive, Irvine CA 92618, with all shipping costs prepaid. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

What Is Not Covered:

This limited warranty provided by D-Link does not cover:

Products that have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; initial installation, installation and removal of the product for repair, and shipping costs; operational adjustments covered in the operating manual for the product, and normal maintenance; damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; and any hardware, software, firmware or other products or services provided by anyone other than D-Link.

Disclaimer of Other Warranties: EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED "AS-IS" WITHOUT ANY WARRANTY OF ANY KIND INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO NINETY (90) DAYS. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT.

Limitation of Liability: TO THE MAXIMUM EXTENT PERMITTED BY LAW, D-LINK IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT RETURNED TO D-LINK FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT, RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY, EVEN IF D-LINK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE FOREGOING LIMITED WARRANTY IS REPAIR, REPLACEMENT OR REFUND OF THE DEFECTIVE OR NON-CONFORMING PRODUCT.

GOVERNING LAW: This Limited Warranty shall be governed by the laws of the state of California.

Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This limited warranty provides specific legal rights and the product owner may also have other rights which vary from state to state.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cables must be used in order to comply with emission limits.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

CE Mark Warning

This is a Class B product.

Trademarks

Copyright ©2001 D-Link Corporation. Contents subject to change without prior notice. DLink is a registered trademark of D-Link Corporation/D-Link Systems, Inc. All other trademarks belong to their respective proprietors.

Copyright Statement

No part of this publication may be reproduced in any form or by any means or used to make any

derivative such as translation, transformation, or adaptation without permission from D-Link Corporation/D-Link Systems, Inc., as stipulated by the United States Copyright Act of 1976.

Registration

Register your DI-707P online at <http://www.dlink.com/sales/reg/>

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>