



Hanua Version 1.00

DI-604UP Ethernet Broadband Router

D-Link DI-604UP

4-Port Ethernet Broadband Router

Manual



Ver 1.00(CA)

Contents

Introduction
Package Contents
Hardware Description
Reset
Getting Started 1
Using the Configuration Wizard 1
Using the Configuration Menu

Help		. 50
Tech	nical Specifications	51
Арре	ndix	52

Introduction

The D-Link DI-604UP is a 4-port Ethernet Broadband Router. It also comes equipped with one USB 1.1 port on the rear panel that supports printer sharing. The D-Link DI-604UP enables users to quickly and easily share a high speed Internet connection. It also incorporates many advanced features, traditionally found in more expensive routers.

After completing the steps outlined in the Quick Installation Guide (included in your package) you will have the ability to share a single Internet connection as well as sharing information and resources such as files and printers.

The DI-604UP is compatible with most popular operating systems, including Macintosh, Linux and Windows, and can be integrated into an existing network. This Manual is designed to help you connect the D-Link DI-604UP to a high speed Internet connection and 4 Ethernet PC connections.

This manual provides a quick introduction to Broadband Router Technology, Firewalls, and Local Area Networking. Please take a moment to read through this manual and get acquainted these various technologies.

Features and Benefits

Broadband Modem and IP Sharing

Connects multiple computers to a Broadband (Cable or DSL) modem to share the Internet connection.

Ethernet Switch

Allows you to quickly and easily share an Internet connection with multiple computers and devices.

Built-In Print Server

Includes a USB port to connect to a USB printer and includes a Windows -based print server software applications, so users on the network can share the printer. The print server is also capable of TCP/IP printing.

VPN supported

Supports multiple and concurrent IPSec and PPTP pass-through sessions, so multiple users behind the DI-604UP can access corporate networks through various VPN clients more securely.

Advanced Firewall & Parental Control Features

The Web-Based user interface displays a number of advanced network management features including:

Content Filtering

Easily applied content filtering based on Mac Address, IP Address, URL and/or Domain Name.

Filter Scheduling

These filters can also be scheduled to be active on certain days or for a duration of hours or minutes.

Network Address Translation

NAT allows you to share a single IP Address and protects you from outside intruders gaining access to your private network.

DHCP Server Supported

All of the networked computers can retrieve TCP/IP settings automatically from the DI-604UP.

Web-Based Management

DI-604UP is configurable through any network 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.

Special Application Supported

Special applications requiring multiple connections, like Internet gaming, video conferencing, Internet telephony and so on. The DI-604UP 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 feature is insufficient to allow an application to function correctly.

Technology Introduction

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.

Package Contents

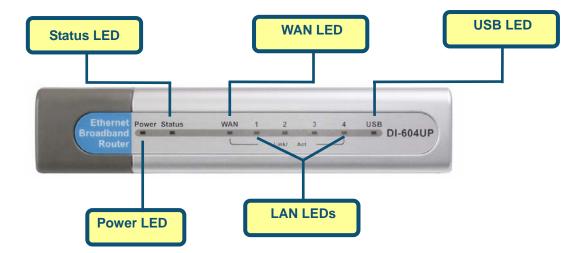


- DI-604UP Wired Router with USB Printer Port
- Power Adapter
- Ethernet Cable
- Quick Installation Guide
- Manual on CD

Note: Using a power supply with a different voltage rating will damage and void the warranty for this product. If any of the above items are missing, please contact your reseller.

Hardware Description

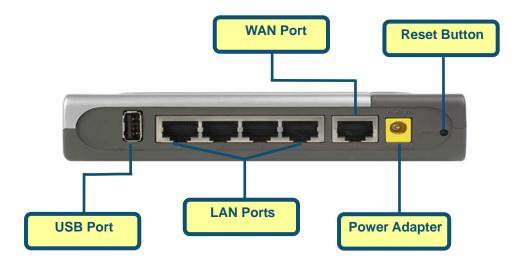
Front Panel



- **Power** A solid light indicates a valid connection to the power supply.
- **WAN** An active LED indicates a link has been established. A blinking LED indicates activity on the WAN port.
- LAN An active LED indicates a link has been established. A blinking LED indicates activity on the LAN port.
- **Status** A blinking LED indicates the DI-604UP is functioning properly.
- **USB** An active LED indicates a link has been established. A blinking LED indicates activity on the USB port

Hardware Description

Rear Panel



Reset Used to restore the DI-604UP back to factory default settings.

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.)

- **WAN*** WAN port socket (CAT5 Ethernet RJ-45 cable). This is where you will connect your Cable or DSL modem.
- USB Port Connect to the printer using a USB cable. This feature is used to share the printer on the network.
- **Power** Connect one end of your included power adapter to the power port and the other end into your power outlet.

*All ports (both LAN & WAN) are Auto-MDIX. All ports auto-sense cable types to accommodate Straight-through or Cross-over cable.

Reset

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

- 1. Leave the device powered on , do not disconnect the power
- 2. Press the reset button and hold (use a paper-clip)
- 3. Keep the button pressed about 5-6 seconds
- 4. Release the button

The DI-604UP will then automatically reboot itself.

Getting Started

Installation Location

The DI-604UP 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-604UP 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-604UP are:

Temperature	32 °F ~ 113 °F
Humidity	10% ~ 95%

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-604UP correctly, you have to properly configure the network settings of your computers. The default IP address of the DI-604UP 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 **Configuring Your PCs to Connect to the DI-604UP** to configure it.

For example:

- 1. Configure your computer 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 obtain TCP/IP settings automatically from the DHCP server feature of the DI-604UP

Since the IP address of the DI-604UP 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. The default gateway must be 192.168.0.1 (the IP address of the DI-604UP).

Using the Configuration Wizard

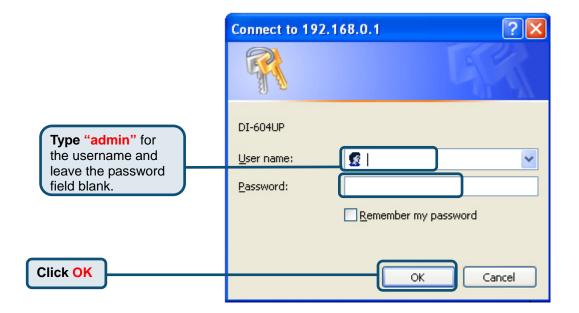
The DI-604UP provides an embedded Web-based management utility making it operating system independent. You can configure your DI-604UP through the Netscape Communicator or Internet Explorer browser in MS Windows, Macintosh, Linux or UNIX based platforms. All that is needed is a web browser such as Internet Explorer or Netscape Navigator version 4 and higher with Java Script enabled.

Start-up and Log in

Activate your web browser and type in the IP address of the DI-604UP into the Location (for Netscape) or Address (for IE) field and press "Enter." The default IP address of the DI-604UP is **192.168.0.1**



After the connection is established, the logon screen will pop up. To log in as an administrator, enter the username of "**admin**" and the password (there are no default password, leave it blank). Click the **OK** button. If the password is correct, the web-management interface will appear.



ks for People	Et		604UP adband Rou	uter
Home	Advanced	Tools	Status	Help
small business 604UP to conne setup will allow	s a Wireless Broadh networking. The Sr ect to your ISP (Inte cy ou to have Inter ep by step to config	etup Wizard wil rnet Service Pro net access withi	l guide you to con ovider). The DI-604 n minutes. Please	figure the DI- IUP's easy

Clicking Apply will save configured settings to the router.

pply × ancel

Clicking Cancel will clear changes made to the current page.

Clicking Help will provide the user with helpful information about the current window.

C Clicking Refresh will efresh refresh the statistics of the current window.

The Home > Wizard window will appear. Please refer to the Quick Installation Guide for more information regarding the Setup Wizard.

These buttons appear on most of the configuration windows in this section. Please click on the appropriate button at the bottom of each window after you have made a configuration change.

Note: if you have changed the default IP Address assigned to the DI-604UP, make sure to enter the correct IP Address.

Using the Configuration Menu

Setup Wizard

The Setup Wizard page is the first page that appears when logging into the web-based management interface. The Setup Wizard is a utility used to quickly configure the DI-604UP. It will quide you through four quick and basic steps to help you connect to your ISP. You will be connected to your ISP (Internet Service Provider) and have Internet access within minutes.

WAN

WAN is short for Wide Area Network. The WAN settings can be referred to as the Public settings. All IP information in the WAN settings are public IP addresses which are accessible on the Internet.

The WAN settings consist of three options: **Dynamic IP Address**, **Static** IP Address, PPPoE and Others(PPTP,L2TP,BigPond Cable and Multi-PPPoE). Select the appropriate option and fill in the information needed to connect to your ISP.

ple	DI-604UP Ethernet Broadband Router			
Home	Advanced	Tools	Status	Help
WAN Settings	appropriate option to conn	act to your ISP		
Oynamic IP Ac	Idress Choose		an IP address automatica	ally from your IS
Static IP Addr			tic IP information provide	d to you by you
O PPPoE		this option if your ISI	P uses PPPoE. (For most	DSL users)
Others	PPTP, L	2TP, BigPond Cable a	and Multi-PPPoE	
	(For Eu	rope use only)		
OL2TP	(For sp	ecific ISPs use only)		
BigPo	nd Cable (For Au	istralia use only)		
O Multi-F	PPPoE (For Ja	oan use only)		
Dynamic IP				
Host Name	DI-604	UP		(optiona
MAC Address	L FI	00 , 00 , 00 , 00 , 00 , 00 , 00 , 00	00_00 (optional)	P 12
Primary DNS Addr	ress 172.19	.10.40	_	
Secondary DNS A	Address 172.19	.10.35 (or	otional)	
MTU	1500			
			0	(3) C
			Apply	Cancel Hel

Choose Dynamic IP Address to obtain IP address information automatically from your ISP. Select this option if your ISP does not give you any IP numbers to use. This option is commonly used for Cable modem services.

- Host Name The Host Name field is optional but may be required by some ISPs. The host name is the device name of the Broadband Router.
- MAC Address The default MAC address is set to the WAN's physical interface MAC address on the Broadband Router. You can use the "Clone MAC Address" button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with this MAC address. It is not recommended that you change the default MAC address unless required by your ISP.

eople	DI-604UP Ethernet Broadband Router						
Hom	e Adv	anced	Tools	St	atus	He	lp
WAII Setting Please select	js the appropriate c	pption to connec	t to your ISP.				
Opynamic	IP Address		his option to obl Cable modem		ess automatio	cally from y	our ISP
⊙ Static IP /	Address	Choose t ISP.	his option to set	static IP inform	nation provid	ed to you b	y your
O PPPoE			his option if you	r ISP uses PPF	PoE. (For mos	t DSL user:	s)
Others		PPTP, L2	FP, BigPond Cal	ble and Multi-Pl	PPoE		
OP	PTP	(For Euro	pe use only)				
OL	2TP	(For spec	cific ISPs use or	nly)			
OE	ligPond Cable	(For Aus	tralia use only)				
	ulti-PPPoE	(For Japa	in use only)				
Static IP							
IP Address		172.19.8	0.100	(assigned by	your ISP)		
Subnet Mask		255.255	240.0]			
ISP Gateway	Address	172.19.9	5.254	ī			
MAC Addres	S		0 00 00 ne MAC Addre		(optional)		
Primary DNS	Address	172.19.1	0.40				
Secondary D		172.19.1	0.35	(optional)			
MTU		1500]	-V-shree (m)			
			1			53	0
					Apply	Cancel	Help

HOME > WAN > Static IP Address

Choose Static IP Address if all WAN IP information is provided to you by your ISP. You will need to enter in the IP address, subnet mask, gateway address, and DNS address(es) provided to you by your ISP. Each IP address entered in the fields must be in the appropriate IP form, which are four IP octets separated by a dot (x.x.x.x). The Router will not accept the IP address if it is not in this format.

IP Address	Public IP address provided by your ISP.
Subnet Mask	Subnet mask provided by your ISP.
ISP Gateway Address	Public IP address of your ISP that you are connecting to.
Primary DNS Address	Primary DNS (Domain Name Server) IP provided by your ISP
Secondary DNS Address	optional

HOME >	WAN >	PPPOE

PPPoE		
	⊙ Dynamic PPPoE ◯ Static PPPoE	
User Name		
Password	•••••	
Retype Password	••••••	
Service Name	(optional)	be sure to
IP Address	0.0.0	remove any
MAC Address	00 00 00 00 00 00 Clone MAC Address	existing PPPoE Client Software
Primary DNS Address	172.19.10.40	installed on your
Secondary DNS Address	172.19.10.35 (optional)	computers.
Maximum Idle Time	5 Minutes	
MTU	1492	
Connect Mode	O Always-on O Manual 💿 Connect-on-demand	

Choose PPPoE (Point to Point Protocol over Ethernet) if you're ISP uses PPPoE connection. Your ISP will provide you with a username and password. This option is typically used for DSL services. Select Dynamic PPPoE to obtain an IP address automatically for your PPPoE connection. Select Static PPPoE to use a static IP address for your PPPoE connection.

Dynamic PPPoE	PPPoE connection where you will receive an IP address automatically from your ISP
Static PPPoE	PPPoE connection where you have an assigned (static) IP Address
User Name	Your PPPoE username provided by your ISP
Password	Your PPPoE password provided by your ISP
Retype Password	Re-enter PPPoE password
Service Name	Enter the service name provided by your ISP. (optional)
IP Address	This option is only available for Static PPPoE. Enter in the static IP address for the PPPoE connection.
Primary DNS Address	Primary DNS IP provided by your ISP
Secondary DNS Address	optional
Maximum Idle Time	The amount of time of inactivity before disconnecting your PPPoE session. Enter a Maximum Idle Time (in minutes) to define a maximum period of time for which

the Internet connection is maintained during inactivity. If the connection is inactive for longer than the defined Maximum Idle Time, then the connection will be dropped. Either set this to zero or enable Auto-reconnect to disable this feature.

MTU MTU stands for Maximum Transmission Unit. For PPPoE connections, you may need to change the MTU settings in order to work correctly with your ISP.

Auto-Reconnect If enabled, the Broadband Router will automatically connect to your ISP after your system is restarted or if the connection is dropped.

HOME > WAN > Other>PPTP

PPTP or Point-to-Point Protocol is a safe method of sending information between VPN's securely using encryption over PPP. You, as the client, need to enter the correct information that the server has in order to create that secure tunnel. Using Dynamic IP, the router will set your basic IP parameters for you, such as the IP Address, Subnet Mask and Gateway. For Static IP, this information must be set manually by the user. All information in this window should be provided by your ISP.

PPTP Client	💿 Dynamic IP 🔘 Static IP
IP Address	
Subnet Mask	0.0.0.0
Gateway	0.0.0.0
DNS	0.0.0.0
Server IP/Name	0.0.0.0
PPTP Account	
PPTP Password	••••••
PPTP Retype Password	
Maximum Idle Time	5 Minutes
мти	1400
Connect Mode	Always-on OManual OConnect-on-dema

PPTP	Choose between Dynamic and Static IP.
IP Address	Enter the IP address of the router for a static IP entry. Dynamic IP requires no input here.
Subnet Mask	Enter the Subnet Mask address of the router for a static IP entry. Dynamic IP requires no input here.
Gateway	Enter the gateway address here. This is the IP address of the ISP server.
Server IP	Enter the IP address of the PPTP's server computer. This is how the user will become authenticated to use PPTP.
PPTP	Account: Enter the name of the PPTP account as provided to you by your ISP.
PPTP Password	Enter the PPTP password as provided to you by your ISP.
PPTP Retype Password	Retype the password entered in the PPTP Password field.

Maximum Idle	Time	A value of 0 means that the PPP connection will remain connected. If your
		network account is billed according to the amount of time the Router is
		actually connected to the Internet, enter an appropriate Idle Time value (in
		seconds). This will disconnect the Router after the WAN connection has
		been idle for the amount of time specified. The default value = 5.

- MTU Enter an MTU value only if required by your ISP. Otherwise, leave it at the default setting.
- **Connect Mode** This function, with Connect-on-demand selected, will allow the router to connect any workstation on your LAN to the Internet upon request. If this function is set at Always-on, no request from the workstation will be needed to connect to the Internet. If Manual is selected, it will be necessary for the workstation on the LAN to manually connect to the Internet through this router.

HOME > WAN > Other>L2TP

Some ISPs may require the user to uplink using the Layer 2 Protocol Tunneling (L2TP) method. L2TP is a VPN protocol that will ensure a direct connection to the server using an authentication process that guarantees the data originated from the claimed sender and was not damaged or altered in transit. Once connected to the VPN tunnel, it seems to the user that the client computer is directly connected to the internal network. To set up your L2TP connection, enter the following data that was provided to you by your ISP.

	Dynamic IP Static IP
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Gateway	0.0.0.0
DNS	0.0.0.0
Server IP/Name	0.0.0.0
L2TP Account	
L2TP Password	•••••••
L2TP Retype Password	••••••••
Maximum Idle Time	5 Minutes
MTU	1452
Connect Mode	🔿 Always-on 🔘 Manual 💿 Connect-on-demar

L2TP	Choose between Dynamic and Static IP. Using Dynamic IP, the router will set your basic IP parameters, such as the IP Address, Subnet Mask and Gateway. For Static IP, this information must be set manually by the user.
IP Address	The IP address that will be assigned to your router for this connection, as stated by your ISP. Dynamic IP requires no input here.
Subnet Mask	The IP address of the corresponding Subnet Mask, as stated to you by your ISP. Dynamic IP requires no input here.
Gateway	The IP address of the gateway device, as stated to you by your ISP. Dynamic IP requires no input here.
Server IP	The IP address of your ISP's server computer, as stated to you by your ISP.
L2TP Account	The account name of the L2TP account that has been assigned to you by your ISP.
L2TP Password	The password of the L2TP account that was supplied to you by your ISP.

L2TP Retype Password	Retype the password that was entered in the L2TP field. Ensure that these two passwords are identical or an error will occur.
Maximum Idle Time	A value of 0 means the PPP connection will remain connected. If your network account is billed according to the amount of time the Router is actually connected to the Internet, enter an appropriate Idle Time value (in seconds). This will disconnect the Router after the WAN connection has been idle for the amount of time specified. The default value = 5 .
MTU	Enter an MTU value only if required by your ISP. Otherwise, leave it at the default setting.
Connect Mode	If Connect-on-demand is selected, will allow the router to connect any workstation on your LAN to the Internet upon request. If Always-on, no request from the workstation will be needed to connect to the Internet. If Manual is selected, the workstation on the LAN must manually connect to the Internet through this router.

HOME > WAN > Other>BigPond Cable

This selection is for users having Big Pond Cable as their ISP. Enter the following information, as provided to you by your ISP.

BigPond		
User Name	B	
Password	•••••	
Retype Pas	ssword	
Auth Serve	er	
Auto Reco		
MAC Addre	ess 00 - 00 - 00 - 00 - 00 - 00 (optional)	
MTU	1500	
User Name	Enter the user name as provided to you by your ISP.	
Password	Enter The PPPoE user name provided to you by your ISP.	
Retype Password	Retype the password entered in the previous field.	
Auth Server	Enter the name of the Authentication Server as provided to SISP. This is the computer that will accept your user name an to be authenticated on the network.	
Auto Reconnect	Checking the Enabled radio button will allow the router to rea the network automatically if it becomes disconnected.	connect to
MAC Address	The default MAC Address is set to the WAN's physical inter address on the Broadband Router. It is not recommender change the default MAC address unless required by your ISI	ed that you
Clone MAC Addres	S The default MAC address is set to the WAN's physical interaction address on the Broadband Router. You can use the C	

Address button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with the MAC address of the router. It is not recommended that you change the default MAC address unless required by your ISP.

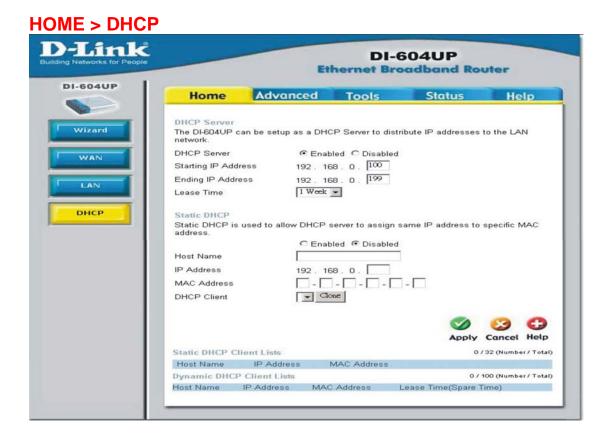
MTU Enter an MTU value only if required by your ISP. Otherwise, leave it at the default setting.

r People		Et		adband Ro	uter
н	ome	Advanced	Tools	Status	Help
LAN	Settings				
The IF	o address	of the DI-604UP.			
IP Ad		192.168.0.			
	et Mask	255.255.	255.		
Local	Domain N	ame			(optional)
DNS	Relay				
		Enable	ed C Disabled		
					-
					63 6
				Apply	Cancel He

LAN is short for Local Area Network. This is considered your internal network. These are the IP settings of the LAN interface for the DI-604UP. These settings may be referred to as Private settings. You may change the LAN IP address if needed. The LAN IP address is private to your internal network and cannot be seen on the Internet.

IP Address	The IP address of the LAN interface. The default IP addressis 192.168.0.1.
Subnet Mask	The subnet mask of the LAN interface. The default subnet mask is 255.255.255.0.
Local Domain Name	This field is optional. Enter in the your local domain name.

19



DHCP stands for Dynamic Host Configuration Protocol. The DI-604UP has a built-in DHCP server. The DHCP Server will automatically assign an IP address to the computers on the LAN/private network. Be sure to set your computers to be DHCP clients by setting their TCP/IP settings to "Obtain an IP Address Automatically." When you turn your computers on, they will automatically load the proper TCP/IP settings provided by the DI-604UP. 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.

Starting IP Address	The starting IP address for the DHCP server's IP assignment.
Ending IP Address	The ending IP address for the DHCP server's IP assignment.
Lease Time	The length of time for the IP lease.

ADVANCED > VIRTUAL SERVER

People			Ethern	DI-604	-	er -
	Home	Advanced	То	ols S	tatus	Help
	/irtual Server /irtual Server is	s used to allow Inter		access to LAN s	ervices.	
1	lame	Chabled © Dis	abied			
	Private IP	ř	1			
	Protocol Type	TCP -				
F F	Private Port					
F	Public Port					
	and and all a					
	Schedule	 Always 				
	schedule	C From time	0 🕶 : [00] un 💌 to [S		0 • : 00 • A	M 💌
	/intual Server	ि From time <mark>ि</mark> day डिंग			Apply Car	3 C
		C From time oday St			Apply Car	3 Cancel He
	/irtual Server Name ── Virtual Ser	C From time of day St	m 💌 to S Private IP 0.0.00	Protocol TCP 21/21	Apply Car 13 / 32 (N Schedule Always	3 C ncel He lumber/Tot
	firtual Server Name Virtual Ser Virtual Ser Virtual Ser	C From time of day St Lists ver FTP ver HTTP	m to S Private IP 0.0.0 0.0.0	Protocol TCP 21/21 TCP 80/80	Apply Car 13 / 32 (N Schedule Always Always	3 C ncel He lumber/Tot
	firtual Server Name Virtual Ser Virtual Ser Virtual Ser	C From time day St Lists ver FTP ver HTTP ver HTTPs	m ▼ to S Private IP 0.0.0.0 0.0.0.0 0.0.0.0	Protocol TCP 21/21 TCP 80/80 TCP 443/443	Apply Car 13 / 32 (N Schedule Always Always Always	3 C Incel He
	<mark>Name Name Virtual Server Virtual Se</mark>	C From time day St Lists ver FTP ver HTTP ver HTTPs ver DNS	Private IP 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	Protocol TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53	Apply Car 13/32 (N Schedula Always Always Always Always	3 C Incel He
	firtual Server Name Virtual Ser Virtual Ser Virtual Ser Virtual Ser Virtual Ser	C From time day St Lists ver FTP ver HTTP ver HTTPS ver DNS ver SMTP	Private IP 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	Protocol TCP 21/21 TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25	Apply Car 13/32 (N Schedule Always Always Always Always Always	3 C ncel He lumber/To 20
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	Firtual Server Name Virtual Ser Virtual Ser Virtual Ser Virtual Ser Virtual Ser Virtual Ser Virtual Ser IPSec PPTP	C From time day St Lists ver FTP ver HTTP ver HTTPS ver DNS ver SMTP ver POP3 ver Telnet	Private IP 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	Protocol TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 UDP 500/500 TCP 1723/172	Apply Car 13 / 32 (N Schedula Always Always Always Always Always Always Always Always Always Always Always Always Always	3 Concel Hei
	Firtual Server Name Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server PPTP NetMeeting	C From time day tists ver FTP ver HTTP ver HTTP ver DNS ver DNS ver DNS ver POP3 ver Telnet	Private IP 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	Protocol TCP 21/21 TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 UDP 500/500 TCP 1723/172 TCP 1720/172	Apply Car 13/32 (N Schedule Always Always Always Always Always Always Always Always Always Always Always Always O Always	

The DI-604UP can be configured as a virtual server so that remote users accessing Web or FTP services via the public IP address can be automatically redirected to local servers in the LAN network.

The DI-604UP firewall feature filters out unrecognized packets to protect your LAN network so all computers networked with the DI-604UP are invisible to the outside world. If you wish, you can make some of the LAN computers accessible from the Internet by enabling Virtual Server. Depending on the requested service, the DI-604UP redirects the external service request to the appropriate server within the LAN network.

The DI-604UP is also capable of port-redirection meaning incoming traffic to a particular port may be redirected to a different port on the server computer.

Each virtual service that is created will be listed at the bottom of the screen in the Virtual Servers List. There are already pre-defined virtual services already in the table. You may use them by enabling them and assigning the server IP to use that particular virtual service.

Name	The name referencing the virtual service.
Private IP	The server computer in the LAN network that will be providing the virtual services.
Private Port	The port number of the service used by the Private IP
Protocol Type	computer. The protocol used for the virtual service.
Public Port	The port number on the WAN side that will be used to access the virtual service.
Schedule	The schedule of time when the virtual service will be enabled. The schedule may be set to Always, which will allow the particular service to always be enabled. If it is set to Time, select the time frame for the service to be enabled. If the system time is outside of the scheduled time, the service will we disabled.

Example #1:

If you have a Web server that you wanted Internet users to access at all times, you would need to enable it. Web (HTTP) server is on LAN computer 192.168.0.25. HTTP uses port 80, TCP.

Name: Web Server

Private IP: 192.168.0.25 Protocol Type: TCP Private Port: 80 **Public Port: 80** Schedule: always

Virtual Server Lists			13 / 32 (Nur	nber / Total)
Name	Private IP	Protocol	Schedule	
Virtual Server FTP	0.0.0	TCP 21/21	Always	



Click on this icon to edit the virtual service.



Click on this icon to delete the virtual service.

Example #2: If you have an FTP server that you wanted Internet users to access by WAN port 2100 and only during the weekends, you would need to enable it as such. FTP server is on LAN computer 192.168.0.30. FTP uses port 21, TCP.

Name: FTP Server Private IP: 192.168.0.30 Protocol Type: TCP Private Port: 21 Public Port: 2100 Schedule: From: 01:00AM to 01:00AM, Sat to Sun

All Internet users who want to access this FTP Server must connect to it from port 2100. This is an example of port redirection and can be useful in cases where there are many of the same servers on the LAN network.

ADVANCED > APPLICATIONS

Works for People			-604UP roadband Ro	uter
Home	Advance	d Tools	Status	Help
Special Applic				
special Applic	ation is used to ru	n applications that	require multiple conne	ections.
	C Enabled € E	Disabled		
s Name				
Trigger Port				
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trol Public Type	TCP 💌			
				E3 C
			Apply	Cancel Hel
Special Appli	cation Lists		6.	/ 32 (Number / Tota
Name		r Public		
■ Battle.net	6112	6112		1
🗖 Dialpad	7175	51200-51201,512	10	
	2019	2000-2038,2050-2	051,2069,2085,3010-3	3030 📑
📕 MSN Gam	ing Zone 47624	2300-2400,28800-	29000	
PC-to-Pho	ne 12053	12120,12122,241	50-24220	
	e 4 554	6970-6999		

Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications have difficulties working through NAT (Network Address Translation). Special Applications makes some of these applications work with the DI-604UP. If you need to run applications that require multiple connections, specify the port normally associated with an application in the "Trigger

Port" field, select the protocol type as TCP or UDP, then enter the public ports associated with the trigger port to open them for inbound traffic. The DI-604UP provides some predefined applications in the table on the bottom of the web page. Select the application you want to use and enable it.

Note! Only one PC can use each Special Application tunnel.

Trigger Name	This is the name referencing the special application.
Trigger Port	This is the port used to trigger the application. It can be either a single port or a range of ports.
Trigger Type	This is the protocol used to trigger the special application.
Public Port	This is the port number on the WAN side that will be used to access the application. You may define a single port or a range of ports. You can use a comma to add multiple ports or a hyphen to add port ranges.
Public Type	This is the protocol used for the special application.

ADVANCED > FILTERS > IP FILTERS

Filters Filters are used to allow or deny LAN users from accessing the Internet. Filters CMAC Filters CMAC Filters Filters CMAC Filters Use IP Filters to deny LAN IP addresses access to the Internet. Cmabled @ Disabled Filter Address Fort Fortocol Type Filter Filter Schedule @ Always Cmather to Standard Filter List Filter List Filter CP, 20-21 Always Filter CP, 20	Filters Filters MAC Filters IP Filters MAC Filters Description of deny LAN IP addresses access to the Internet. C Enabled IP Address	People	E		604UP adband Ro	uter
Filters are used to allow or deny LAN users from accessing the Internet. P Filters MAC Filters IP Filters Use IP Filters to deny LAN IP addresses access to the Internet. C Enabled © Disabled IP Address Port Protocol Type TCP Schedule © Always C time @ : @ AM * to @ : @ AM * day Sun * to Sun * P Filter Lists P Filter List	Filters are used to allow or deny LAN users from accessing the Internet. P Filters MAC Filters IP Filters Use IP Filters to deny LAN IP addresses access to the Internet. C Enabled © Disabled IP Address Port Protocol Type TCP Schedule © Always C time OF: OF AM to OF: OF AM day Sum to Sum T P Filter List P Filter List P Fortocol, Port C P, 20-21 Always C TCP, 80 Always C TCP, 80 Always C TCP, 443 Always C TCP, 25 Always C TCP, 25 Always C TCP, 110 Always C TCP, 110 C AWays C C CP C	Home	Advanced	Tools	Status	Hel
 IP Filters	 IP Filters C MAC Filters IP Filters Use IP Filters to deny LAN IP addresses access to the Internet. C Enabled ● Disabled IP Address Port Port Port Port Protocol Type TCP ♥ Schedule ● Always @ time @ ♥ @ ♥ AM ♥ to @ ♥ @ ♥ AM ♥ day Sun ♥ to Sun ♥ Priter Liss 7/32 (Number 10 P P P P P P P P P P P P P P P P P P		ed to allow or deny LAN	users from acce	ssing the Internet.	
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IP Filter Lists 7 / 32 (Number IP Range Protocol, Port Schedule * TCP, 20-21 Always * TCP, 80 Always * TCP, 443 Always * UDP, 53 Always * TCP, 25 Always * TCP, 110 Always	IP Filter Lists 7 / 32 (Number IP Range Protocol, Port Schedule * TCP, 20-21 Always * TCP, 80 Always * TCP, 443 Always * UDP, 53 Always * TCP, 25 Always * TCP, 110 Always	30	C time 00		▼ to 00 ▼ : 00 5	• AM •
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* TCP, 80 Always Image: Constraint of the second secon	TCP, 80 Always TCP, 443 Always TCP, 443 Always UDP, 53 Always TCP, 25 Always TCP, 110 Always	IP Filter Lists	C time 00 day Sw	to Sun 💌	Apply 7	(S) Cancel
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TCP, 110 Always	TCP, 110 Always 📑	IP Filter Lists IP Rar	C time 00 day Sw see Protocol, TCP, 20- TCP, 80 TCP, 443	Port 21	Apply 7 Schedule Always Always Always Always	Cancel / 32 (Number
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TCP, 23 Always		IP Filter Lists IP Rar	C time 00 day Sw singe Protocol, TCP, 20- TCP, 80 TCP, 443 UDP, 53 TCP, 25	Port 21	Apply 7 Schedule Always Always Always Always Always Always Always	Cancel /32 (Number

- Filters Filters are used to deny or allow LAN computers from accessing the Internet. The DI-604UP can be setup to deny internal computers by their IP or MAC addresses. The DI-604UP can also block users from accessing restricted web sites.
- IP Filters Use IP Filters to deny LAN IP addresses from accessing the Internet. You can deny specific port numbers or all ports for the specific IP address.
- IP The IP address of the LAN computer that will be denied access to the Internet.
- Port The single port or port range that will be denied access to the Internet.
- **Schedule** This is the schedule of time when the IP Filter will be enabled.

ADVANCED > FILTERS > MAC FILTERS

	Home	Advanced	Tools	Status	Help	D
r i	Filters					
	Filters are used	to allow or deny LAN	users from acces	sing the Internet.		
	O IP Filters	MAC Filters				
	MAC Filters					
		ss to allow or deny co	omputers access f	to the network.		
	Disabled MA	C Filtere				
		computers with MAC	address listed hel	ow to access the n	etwork	
		omputers with MAC a				
		ame				
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				9	8	0
	DHCP C	lient Clone	at Record Record 9	S Apply	Cancel	
		lient Clone	and Research Research R		Cancel	

Use **MAC Filters** to allow or deny LAN computers by their MAC addresses from accessing the Internet. You can either manually add a MAC address or select the MAC address from the list of clients that are currently connected to the Broadband Router.

ADVANCED > Parental Control > URL BLOCKING

	works for People		DI-604UP Ethernet Broadband Router					
Parental Control filters are used to allow or deny LAN users from accessing the Internet.		Home	Advanced	Tools	Status	Help		
URL Blocking Block those URLs which contain keywords listed below. C Enabled © Disabled URL Keyword URL Keyword URL List 0/32 (Number/ Total)	-11	Parental Control f	filters are used to all		sers from accessir	ng the Internet.		
URL List 0/32 (Number / Total)								
		URL Keyword			Apply	Sancel Help		
		COTTON COTTON	i		0.	/ 32 (Number / Total)		
						_		

URL Blocking is used to deny LAN computers from accessing specific web sites by its URL. A URL is a specially formatted text string that defines a location on the Internet. If any part of the URL contains the blocked word, the site will not be accessible and the web page will not display.

ADVANCED > Parental Control > DOMAIN BLOCKING

orks for People		E		adband Ro	uter
	Home	Advanced	Tools	Status	Help
	Parental Control Parental Control fi	Iters are used to all	ow or deny LAN u	sers from accessir	ng the Internet.
	O URL Blocking	Oomain Blo	· · · · · · · · · · · · · · · · · · ·		2
	Domain Blockin	9			
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	C Allow users to	o access all domair	s except "Blocke	d Domains"	
	O Deny users to	access all domain:	s except "Permitte	ed Domains"	
	Blocked Domains				
	Permitted Domain	s			
				0	3 0
				Apply	Cancel Help
	Blocked Domains	List		c)/32 (Number / Total
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	Permitted Domain	s List		c)/32 (Number / Total
	Permitted Domain				

Domain Blocking is used to allow or deny LAN computers from accessing specific domains on the Internet. Domain blocking will deny all requests to a specific domain such as http and ftp. It can also allow computers to access specific sites and deny all other sites.

ADVANCED >FIREWALL

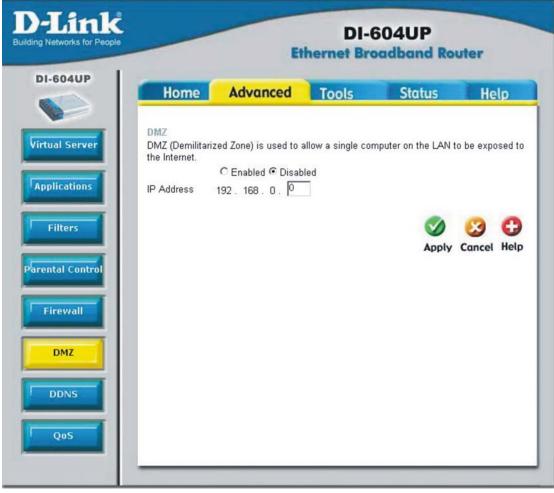
DI-604UP				Ether	net Broo	idband Rou	iter
		lome	Advan	ced To	ools	Status	Help
Virtual Server				•	traffic from p	assing through the	9 DI-604UP.
Applications	Name		Allow C Deny				
Filters	Sourc	e LAN				Protocol Port Ran	ge
arental Control	Dest Sche	dule 💽 A	Always From time 0	• : 00 • .	AM 💌 to 🔍		
Filewan			64) [Ø	3 0
DMZ						Apply	Cancel Help
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DDNS	য	Action Allow Deny	Name Default Default	Source LAN, * *,*	Dest * * LAN,*	Protocol, Port	

Firewall Rules is an advance feature used to deny or allow traffic from passing through the Broadband Router. It works in the same way as IP Filters with additional settings. You can create more detailed access rules for the DI-604UP. When virtual services are created and enabled, it will also display in Firewall Rules. Firewall Rules contains all network firewall rules pertaining to IP (Internet Protocol).

In the **Firewall Rules List** at the bottom of the screen, the priorities of the rules are from top (the highest priority) to the bottom (the lowest priority.)

Note: The DI-604UP MAC Address filtering rules have precedence over the Firewall Rules.

ADVANCED > DMZ



If you have a client PC that cannot run Internet applications properly from behind the DI-604UP, then you can set the client up to unrestricted Internet access. It allows a computer to be exposed to the Internet. This feature is useful for gaming purposes. Enter the IP address of the internal computer that will be the DMZ host. Adding a client to the DMZ (Demilitarized Zone) may expose your local network to a variety of security risks, so only use this option as a last resort.

ADVANCED > DDNS

Home Advanced Tools Status Help Dynamic DNS DDNS C Enabled © Disabled Server Address DynDns.org • Host Name	Dynamic DNS © Enabled © Disabled DDNS © Inabled © Disabled Server Address []ymDns.org] Host Name	Link Networks for People		E		04UP adband Rou	iter
DDNS C Enabled O Disabled Server Address DynDns.org V Host Name Username Password DDNS Status Report	DDNS C Enabled © Disabled Server Address DynDns.org Host Name Username Password DDNS Status Report	UP	Home	Advanced	Tools	Status	Help
	DDNS Status Report 🧭 🧐		DDNS Server Address Host Name Username				
		ntrol		Report			Cancel Help

The DI-604UP supports Dynamic Domain Name Service. Dynamic DNS allows a dynamic public IP address to be associated with a static host name in any of the many domains, allowing access to a specific host from various locations on the Internet. With this function enabled, remote access to a host will be allowed by choosing a URL by using the pull-down menu. Because many ISPs assign public IP addresses using DHCP, it can be difficult to locate a specific host on the LAN using the standard DNS. For example, if you are running a public web server or VPN server on your LAN, DDNS ensures that the host can be located from the Internet if the public IP addresses changes.

Note: DDNS requires that an account be setup with one of the supported DDNS servers prior to engaging it on the router. This function will not work without an accepted account with a DDNS server.

DDNS	Click the Enabled button to enable the DDNS feature on the router.
Server Address	Choose the DDNS server address from the pull-down menu. Available servers include DynDns.org, No-IP.com, hn.org and zoneedit.com.
Host name	Enter the host name of the DDNS server.
Username	Enter the username given to you by your DDNS server.
Password	Enter the password given to you by your DDNS server.

Click Apply to set this information in the Router.

ADVANCED > QoS

k eople	Eti		-604UP roadband Ro	uter
Home	Advanced	Tools	Status	Help
QoS QoS(Quality o	f Service).			
abled	C Physical Port	C MAC	OIP OAI	pplication
QoS Disable Set the QoS(C	Quality of Service) Disab	led.		
			Ø Apply (🥺 🔂 Cancel Help
-				

QoS or Quality of Service is used to allot bandwidth and priority from the router. To allot bandwidth per port on the router, click the appropriate **QoS** radio button and configure the parameters. QoS may be configured per Physical Port, MAC address, IP address or specified application. See the following explanation for more detailed information on each type of QoS setting.

ADVANCED > QoS > Physical Port

QoS QoS(Quality of S	'ervice).			
C Disabled	Physical Port	C MAC	C IP	O Application
QoS Physical P Set the QoS(Qua	ort ality of Service) Physi	cal Port.		
Port	E	Enable		Bandwidth
LAN 1				FULL 💌
LAN 2				FULL 🔽
LAN 3				FULL -
LAN 4				FULL
				Mapply Cancel Help

To enable QoS per port, first click the **Physical Port** radio button which will reveal the preceeding window for the user to configure. Simply click the **Enable** check box of the corresponding port to enable QoS. You may also set the bandwidth for that port by using that corresponding pull-down menu. The user may choose a bandwidth between 128 Kbps to 32 Mbps. FULL denotes that the port will have the maximum transfer speed allowed at any given time, up to 100Mbps. Click **Apply** to confirm your settings.

ADVANCED > QoS >MAC

QoS QoS(Quality of S	ervice).					
C Disabled	O Physical Port	MAC MAC ■ □	O IP	СĄ	pplication	
	ream Bandwidth n bandwidth provided b	iy ISP's.				
Upstream Bandv	vidth 64(Kbps)	-				
QoS Control by Set the High Pric	MAC prity QoS Control by S	ource MAC A	ddress.			
	C Enabled	Oisabled				
Source Mac DHCP Client Reserved Bandw	idth					
				S Apply	3 Cancel	C) Help
QoS MAC List		10	Shellon	07	/ 12 (Numbe	r / Total)
Source MAC	Kes	erved Bandw	idth			

The user may also set QoS by specific MAC address. To enable QoS per MAC address, first click the **MAC** radio button which will reveal the preceeding window for the user to configure. Ensure that the Bandwidth configured does not exceed the incoming bandwidth from the ISP or it will cause other devices on the LAN to slow down due to decreased bandwidth. Check with your ISP for more information on the bandwidth allotted to your account.

WAN Uplink Bandwidth Use the pull-down menu to set the WAN Uplink Bandwidth. The user may choose a speed from 64kbps to Full (100Mbps). Ensure that the Bandwidth does not exceed the incoming bandwidth from the ISP or it will cause other devices on the LAN to slow down due to decreased bandwidth. Check with your ISP for more information on the bandwidth allotted to your account.

QoS Control by MAC Click the **Enabled** radio button to enable QoS priority by MAC address. Information coming from this MAC address will have the highest priority on the LAN. This means that information originating from this device will be sent to other devices on the LAN requesting it, first.

Other devices will have a lower priority in sending information through the router. Source MAC Enter the source MAC address that will be set for high priority QoS in the router. **DHCP** Client The user may use the DHCP client to aid in choosing the MAC address to be implemented for QoS. All devices connected to the router will be listed in the pull-down menu. Simply choose the correct device and click the Clone button, which will produce that devices MAC address in the Source MAC field. **Bandwidth** Use the pull-down menu to select the best bandwidth for the QoS Setting on this router. The user may set a bandwidth between 1Kbps to 32Mbps. Choosing Best Effort will set the router to allow the first user to access the source MAC address to have the total bandwidth needed for the file being transferred. Choosing Full will denote that the router will allot 100Mbps of bandwidth for the specified QoS implementation. Only one QoS implementation can be set at Full.

Click **Apply** to set the QoS for MAC.

ADVANCED > QoS >IP

QoS					
QoS(Quality of S	ervice).				
C Disabled	C Physical Port	C MAC	⊙IP	O Applica	tion
QoS WAN Upstr	eam Bandwidth				
20 T	i bandwidth provided by	/ ISP's.			
Upstream Bandw	idth 64(Kbps) 🚽]			
QoS Control by Set the QoS High	IP n Priority Control by Sc	ource IP Addr	ess.		
	C Enabled	Oisabled			
Source IP Addres Reserved Bandwi	102: 100: 8:		168. 0.		
OoS IP List				Apply Car	3 Concel Help
Source IP Rang	10	Reserved B	andwidth	07 12 (N	univer / rotal)
Source in Aang	10	Reserved D	andwidth		

The user may also set QoS by specific IP address. To enable QoS per IP address, first click the **IP** radio button which will reveal the preceeding window for the user to configure. Ensure that the bandwidth does not exceed the incoming bandwidth from the ISP or it will cause other devices on the LAN to slow down due to decreased bandwidth. Check with your ISP for more information on the bandwidth allotted to your account.

Upstream Bandwidth Use the pull-down menu to set the Upstream Bandwidth. The user may choose a speed from 64kbps to Full (100Mbps). Ensure that the bandwidth does not exceed the incoming bandwidth from the ISP or it will cause other devices on the LAN to slow down due to decreased bandwidth. Check with your ISP for more information on the bandwidth allotted to your account. QoS Control by IP Click the enabled radio button to enable QoS priority by MAC address. Information coming from this IP address will have the highest priority on the LAN. This means that information originating from this device will be sent to other devices on the LAN requesting it, first. Other devices will have a lower priority in sending information through the router. Source IP Address Enter the source IP address or range of IP addresses that will be set for high priority QoS in the router. **Reserved Bandwidth** Use the pull-down menu to select the best bandwidth for the QoS setting on this router. The user may set a Bandwidth between 1Kbps to 32Mbps. Choosing Best Effort will set the router to allow the first user to access the source IP address to have the total bandwidth needed for the file being transferred. Choosing Full will denote that the router will allot 100Mbps of bandwidth for the specified QoS implementation. Only one QoS

implementation can be set at Full.

Click **Apply** to set the QoS for IP.

ADVANCED > QoS > Application

QoS QoS(Qualit	ly of Servic	o)					
300(30am	ly of Dervic	o).					
C Disable	ed O	Physical Port	O MAC	OIP	ΘA	pplication	
	and the second se	Bandwidth dwidth provided b	y ISP's.				
Upstream I	Bandwidth	64(Kbps)	-				
QoS Cont Set the Qo	A Start The second of	ocol prity Control by P	rotocol.				
		C Enabled	🖲 Disable	ed			
Name							
Protocol		Both 💌					
Port Range	e	<u> </u>					
Reserved E	Bandwidth	Best Effort	-				
						53	0
					Apply	Cancel	Help
QoS Proto	col List					/ 12 (Numbe	and the sea
Name	Protocol	Port Range	9	Reserved Bar			

The user may also set QoS by specific protocol. To enable QoS per protocol, first click the **Application** radio button which will reveal the preceeding screen for the user to configure. Ensure that the bandwidth does not exceed the incoming bandwidth from the ISP or it will cause other devices on the LAN to slow down due to decreased bandwidth. Check with your ISP for more information on the bandwidth allotted to your account.

QoS Control by Protocol Click the **Enabled** radio button to enable QoS priority by application. Information coming from this application will have the highest priority on the LAN. This means that information originating from this device will be sent to other devices on the LAN requesting it, first. Other devices will have a lower priority in sending information through the router.

Name	Enter a user-defined name to define this application for users on the LAN.
Protocol	Choose the protocol to be enabled for QoS from the pull-down menu. The user may choose TCP, UDP or Both.
Port Range	Enter a virtual port range that will use this application. Remember these are virtual ports and not physical ports on the router.
Bandwidth	Use the pull-down menu to select the best bandwidth for the QoS setting on this router. The user may set a bandwidth between 1Kbps to 32Mbps. Choosing Best Effort will set the router to allow the first user to access the set application to have the total bandwidth needed for the file being transferred. Choosing Full will denote that the router will allot 100Mbps of bandwidth for the specified QoS implementation. Only one QoS implementation can be set at Full.

Click Apply to set the QoS for IP.

for People	E		604UP adband Ro	uter
Home	Advanced	Tools	Status	Help
Administrator (1	can change their logir The Login Name is "ac Password *********	lmin") *****		
User (The Login	Password ************************************			
I III	P Address * Port 8080 •	J & Disabled		Cancel Help

Admin

At this page, the DI-604UP administrator can change the system password. There are two accounts that can access the Broadband Router's Web-Management interface. They are **admin** and **user**. **Admin** has read/write access while **user** has read-only access. **User** can only view the settings but cannot make any changes.

IP Address Internet IP address of the computer that has access to the Broadband Router. If the IP address is set to * (star). This allows any Internet IP address to access the Broadband Router. The port number used to access the Broadband Router. (Select from the pull-down menu.)

Example: http://x.x.x.8080 where x.x.x.x is the WAN IP address of the Broadband Router and 8080 is the port used for the Web-Management interface.

pr People	E		604UP badband Rou	iter
Home	Advanced	Tools	Status	Help
	UP system time.			
	Dec 31, 1999 16:1 ne device's clock with: : (Simple Network Time			
C Your Com C Manual (E	puter's clock inter your own settings)		
Time Zone Daylight Savinı	(GMT-08:00) Pecific G Enabled ● Dis: Month We Start Apr ▼ 1st End Oct ▼ Las	abled ek Day Hou I Sun I 2	ur Minute	J
Get the Time A NTP Server Interval	Nutomatically via Netwo		I(NTP) tional)	
Time	Year: 2005 💌 Mor Hour: 14 💌 Minute	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
			Apply	Cancel Hel

Time The system time is the time used by the DI-604UP for scheduling services. You can manually set the time or connect to a NTP (Network Time Protocol) server. If an NTP server is set, you will only need to set the time zone. If you manually set the time, you may also set Daylight Saving dates and the system time will automatically adjust on those dates.

TOOLS > SYSTEM



System Settings

The current system settings can be saved as a file onto the local hard drive. The saved file or any other saved setting file can be loaded back on the Broadband Router. To reload a system settings file, click on Browse to browse the local hard drive and locate the system file to be used. You may also reset the Broadband Router back to factory settings by clicking on Restore.

TOOLS > FIRMWARE



Firmware Upgrade You can upgrade the firmware of the Broadband Router at this page. Make sure the firmware you want to use is on the local hard drive of the computer. Click on Browse to browse the local hard drive and locate the firmware to be used for the update. Please check the D-Link support site for firmware updates at http://support.dlink.ca.

Browse After you have downloaded the new firmware, click Browse in this window to locate the firmware update on your hard drive.

Click **Apply** to complete the firmware upgrade. The following window will open to indicate the DI-604UP is writing flash:



Click **Continue** to proceed.

NOTE: Please avoid turning off the DI-604UP when it is in the middle of updating firmware as this action may cause serious damage to the device.

rks for People			604UP	iter
H	lome Advanced	Tools	Status	Hel
Ping com Hos	g Test g Test is used to set puter is on the Inter t Name or Address		ckets to test i	f a Pin
VVho VVA com met add	ck WAN Ping en you "Block WAN N IP address on the mands. Pinging put hod used by hacker ress is valid. card PING from WA	DI-604UP t blic WAN IP s to test wh	o not respond addresses is a ether your WA	to pin a comm N IP
SPI	mode			
You	a can setup this item			mode
IGM	⊙ Enab IP Proxv	led ⊂ Disabl	ed	
Plea Clie or it	ase make sure your nt (player) support l t won't perform prop c Enab	GMP before	e enabling IGN	
	NP Settings I can setup this item	if you want	to enable UPr	ıP.
	20. ²	led ⊂ Disable		
	N Pass-Through			
	ws VPN connection			04UP.
IPS		led ⊂ Disable led ⊂ Disable		
WA	N select to 10/100 c 100M Auto		bps ©10/100	Mbps
				-

Miscellaneous Items These are additional tools and features of the Broadband Router.

Ping Test	This useful diagnostic utility can be used to check if a
	computer is on the Internet. It sends ping packets and listens
	for replies from the specific host.

- **Restart Device** If for any reason the Broadband Router is not responding correctly, you may want to restart the Broadband Router.
- Block WAN Ping When you "Block WAN Ping", you are causing the public WAN IP address on the Broadband Router to not respond to ping commands. Pinging public WAN IP addresses is a common method used by hackers to test whether your WAN IP address is valid.
- **Discard PING from WAN side** By enabling this option, the DI-604UP will not reply to ping (ICMP) request packets from the Internet.
- VPN Pass-Through The Broadband Router supports VPN (Virtual Private Network) pass-through for both PPTP (Point-to-Point Tunneling Protocol) and IPSec (IP Security). Once VPN

pass-through is enabled, there is no need to open up virtual services. Multiple VPN connections can be made through the Broadband Router. This is useful when you have many VPN clients on the LAN network.

Multicast Streaming The Internet Group Management Protocol (IGMP) snooping allows the Router to recognize IGMP queries and reports sent between PCs on your LAN and an IGMP host. When the IGMP Proxy is enabled, the Router can open or close a port to a specific PC based on IGMP messages passing through the Router.

ink ks for People		Et		-604UP roadband Re	outer
	Home	Advanced	Tools	Status	Help
	Fast Ethernet Virtual Cable Ports			Link Type	
	WAN		.]]	Disconnect	More Info
	LAN1		.][Disconnect	More Info
	LAN2		.][100Full	More Info
	LAN3		.][Disconnect	More Info
	LAN4			Disconnect	More Info
					2 0
1					Refresh He

TOOLS > Cable Test

Virtual Cable Tester (VCT) is an advanced feature that integrates a LAN cable tester on every Ethernet port on the router. Through the graphical user interface (GUI), VCT can be used to remotely diagnose and report cable faults such as opens, shorts, swaps, and impedance mismatch. The VCT feature significantly reduces service calls and returns by allowing users to easily troubleshoot their cable connections.

Ports The Ethernet port names associated to the physical ports.

- Link Status The current link status of the Ethernet cable connected to the respective Ethernet port.
- More Info Click on More Info for detailed information about the cable link status.

Refresh Click on **Refresh** to run the VCT test. Allow the router a few seconds to complete the test.

	Et		adband Ro	uter
Home	Advanced	Tools	Status	Help
Device Inform			System UpTime:	
LAN	Firmware Version:v	1.00, Fri Aug 26	11:27:11 UST 200:	5
MAC Add	ress 00:00:11:22:33:66	6		
IP Add	ress 192.168.0.1			
Subnet N	lask 255.255.255.0			
DHCP Se	rver Enabled			
WAN				
MAC Add	ress 00:00:11:22:33:67	,		
Connec	tion DHCP Client Disc DHCP Release	DHCP Renew		
IP Add	ress 0.0.0.0			
Subnet N	lask 0.0.0.0			
Default Gate	way 0.0.0.0			
	DNS 0.0.0.0 0.0.0.0			

STATUS > DEVICE INFORMATION

This page displays the current information for the Broadband Router. It will display the WAN, LAN, and MAC address information.

If your WAN connection is set up for Dynamic IP address, there will be a **Release** button and **Renew** button. Use Release to disconnect from your ISP and use Renew to connect to your ISP.

If your WAN connection is set up for PPPoE, there will be a **Connect** button and **Disconnect** button. Use Disconnect to drop the PPPoE connection and use Connect to establish the PPPoE connection. WAN

MAC Address 00:00:11:22:33:67 DHCP Client Disconnected DHCP Release DHCP Renew

IP Address 0.0.0.0

Subnet Mask 0.0.0.0

Default Gateway 0.0.0.0

DNS 0.0.0.0 0.0.0.0

This page allows you to observe the DI-604UP's working status:

WAN

- IP Address: WAN/Public IP Address
- Subnet Mask: WAN/Public Subnet Mask
- Gateway: WAN/Public Gateway IP Address
- Domain Name Server: WAN/Public DNS IP Address
- Wan Status: WAN Connection Status

LAN

- IP Address: LAN/Private IP Address of the DI-604UP
- Subnet Mask: LAN/Private Subnet Mask of the DI-604UP

Firmware version: Displays the current firmware version **WAN MAC Address:** Displays the WAN port MAC/hardware address **LAN MAC Address:** Displays the LAN port MAC/hardware address

STATUS > LOG D-Link

and the second se			-	-
Home	Advanced	Tools	Status	Help
First Page		Next Clear	Advanced Settings	ettings for C He
Time	Message			
Dec 31 16:00 Dec 31 16:00			n activity,attack,drop	
			, acting junction, drop	Parenti, incl

Log

The Broadband Router keeps a running log of events and activities occurring on the Router. If the device is rebooted, the logs are automatically cleared. You may save the log files under Log Setting.

First Page - The first page of the log.
Last Page - The last page of the log.
Previous - Moves back one log page.
Next - Moves forward one log page.
Clear - Clears the logs completely.
Log Settings - Brings up the page to configure the logs.
Log Settings

Not only does the Broadband Router display the logs of activities and events, it can be setup to send these logs to another location. The logs can be sent via email to an email account.

- **SMTP Server** The address of the SMTP server that will be used to send the logs.
- Send to The email address the logs will be sent to. Click on Email Log Now to send the email.

-	E		604UP badband Rou	uter
Hom	e Advanced	Tools	Status	Help
Refresh		тапутні раскет		e DI-6040P.
		Transmit packet	Transmit 0 Packets	
Refresh	Receive	rransmit packet	Transmit	
Refresh	Receive 0 Packets	rransmit packet	Transmit O Packets	

STATUS > Statistics

Traffic Statistics

The Broadband Router keeps statistic of traffic that passes through it. You are able to view the amount of packets that passes through the Router on both the WAN port and the LAN port. The traffic counter will reset if the device is rebooted.

STATUS > Printer Info

Link Networks for People		Et		adband Ro	uter
604UP	Home	Advanced	Tools	Status	Help
	Printer Server Inf	ormation			
e Info					C
					Help
	Queue Name	e Printer Name		Printer Se	erver Status
ics					
ifo					
ession					

Printer Info The Printer Info window displays a list of Printers that are using the DI-604UP as a print server. These printers are defined by their Queue Name and Printer Name. The status of these printers is located to the right under the heading Printer Server Status.

STATUS > Active Session

works for People		Et		adband Ro	uter
04UP	Home	Advanced	Tools	Status	Help
ce Info	Active Session	display Source and D	estination nacket	s nassing through t	the DI-604LIP
	ACTIVE DESSION	display cource and De	sumation packets	passing through t	and D100401.
	Refresh				
	Refresh				¢
	Refresh NAPT Session	*			¢ He
ſ		W			¢ He
	NAPT Session	ssion 0			¢ H4
	NAPT Session TCP Ses UDP Ses	ssion 0			H
	NAPT Session TCP Ses UDP Ses	ssion () ssion () Total ()			H

Active Session

The Active Session window allows users to view the packets passing through the router, whether from the source or to the destination. This window displays the total TCP and UDP packets in the NAPT Session section. This is a total of the Active Session section on the bottom of the screen. The Active Session section will sub-divide the NAPT session section into separate IP addresses and their TCP and UDP packets. For more details regarding a separate IP address on the LAN, click the detail button of the corresponding IP address which will display the following window for the user to view.

k eople	DI-604UP Ethernet Broadband Router			
Hom	ne Advance	d Tools	Status	Hel
Home • <u>Se</u> • W/ • LA • DH				
• <u>Ap</u> • Fil • <u>Pa</u>	r <u>tual Server</u> oplications arental Control rewall <u>MZ</u> DNS			
• <u>Fir</u> • <u>Mi</u>	<u>me</u> /stem rmware			
• <u>Lo</u> • <u>Sta</u> • <u>Pri</u>	evice Info			
<u>FAQs</u>				

Help

The **Help** tab will give basic information referring to various screens locted in the Router. To view a specific section, click on its hyperlinked name. A new window of information will appear.

Technical Specifications

Standards

- IEEE 802.3 10Base-T Ethernet
- IEEE 802.3u 100Base-TX Fast Ethernet
- IEEE 802.3 Nway Auto-Negotiation

VPN Pass Through / Multi-Sessions

- PPTP
- L2TP
- IPSec

Device Management

Web-Based – requires at least Microsoft Internet Explorer v5 or later, Netscape Navigator v4 or later, or other Java-enabled browsers.

Media Access Control

CMSA/CA with ACK

LEDS

- · Power
- · Status
- WAN
- Local Network 10/100
- · USB

Operating Temperature

32*F to 113*F (0*C to 45*C)

Humidity

95% maximum (non-condensing)

Power Input

External power Supply DC 5V, 2A

Dimensions

- L = 5.6in (142mm)
- W = 4.3in (109mm)
- H = 1.2in (31mm)

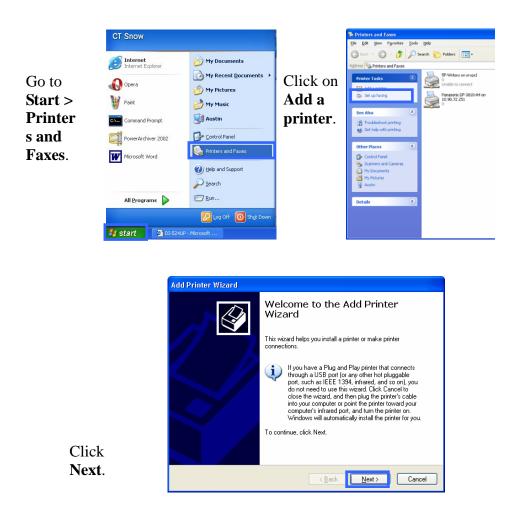
Weight

0.44 lbs (200g)

Appendix

Installing a Printer on your DI-604UP for Windows XP

The DI-604UP can be used as a print server for devices on your LAN. Once you have installed the USB printer through the router, the user must set up the computer on the LAN for the printer as well. The following explanation will guide you through the steps needed to do this. Remember to enter the same Queue Name on the PC as your router displays or the printer will not function properly.



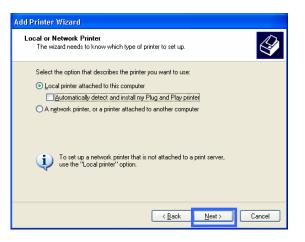
Select Local printer attached to the computer. (Deselect Automatically detect and install my Plug and Play printer if it has been selected.)

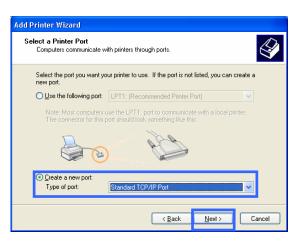
Click Next.

Select **Create a port:** and from the pull-down menu select the correct port for your printer. (Most users will want to select Standard TCP/IP Port, as shown in the illustration.) Click **Next**.

The Add Standard TCP/IP Printer Port Wizard window opens.

Click Next.







Enter the IP Address of the DI-604UP (default: 192.168.0.1) in the Printer Name or IP Address field. Add a name to the router IP address to differentiate it from other devices in the Port Name field.

The Wizard requires additional information to complete the process. In the Additional Port Information Required window, select the Custom radio dial and click the Settings button.

In the Configure Standard TCP/IP Port Monitor window, first select

the **LPR** radio dial in the Protocol section. Next, add a Queue

Name, such as "lp1."

Click OK.

Add	Standard TCP/IP Printer P	ort Wizard 🛛 🔀
A	dd Port For which device do you want	to add a port?
	Enter the Printer Name or IP ad	dress, and a port name for the desired device.
	Printer Name or IP <u>A</u> ddress:	192.168.0.1
	Port Name:	IP_192.168.0.1
		< <u>B</u> ack <u>N</u> ext > Cancel

Add Standard TCP/IP Printer Port Wizard
Additional Port Information Required The device could not be identified.
The detected device is of unknown type. Be sure that: 1. The device is properly configured. 2. The address on the previous page is correct. Either correct the address and perform another search on the network by returning to the previous wizard page or select the device type if you are sure the address is correct.
Device Type
O Standard Generic Network Card
⊙ <u>C</u> ustom <u>Settings</u>
<u> </u>

Port Name:		IP_192.168.0.1
Printer Name or IP A	ddress:	192.168.0.1
Protocol O <u>R</u> av	v	● LPR
Raw Settings		
Port Number:	9100	
~ LPR Settings	_	
Queue Name:	lp1	
gadae Hame.		
LPR Byte Coun	ting Enabled	ł
-		3
LPR Byte Coun	nabled	
LPR Byte Coun	nabled public	

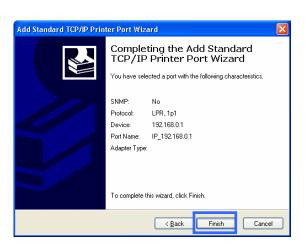
The Wizard will return to the Additional Port Information Required window after the settings have been entered in the Port Settings tab on the Configure Standard TCP/IP Port Monitor window.

Please confirm the printer port information.

Select and highlight the correct driver for your printer. (If the correct driver is not displayed, insert the CD or floppy disk that came with your printer and click **Have Disk**.)

Click Next.

Add Standard T	CP/IP Printer Port Wizard	
	t Information Required could not be identified.	
 The device is The address of Either correct the 	vice is of unknown type. Be sure that: properly configured. an the previous page is correct. address and perform another search on the network by returning to the bage or select the device type if you are sure the address is correct.	
Device Type-		
<u>○ S</u> tandard	Generic Network Card	
⊙ <u>C</u> ustom	Settings	
	<pre></pre>	



Add Printer Wizard Install Printer Software The manufacturer and model	determine which printer software to use.
	d model of your printer. If your printer came with an installation ur printer is not listed, consult your printer documentation for
Manufacturer AST AST AT&T Brother Bull Canon V	Printers
This driver is digitally signed. <u>Tell me why driver signing is imp</u>	Windows Update Have Disk
	< Back Next > Cancel

At this screen, you can change the name of the printer (optional).	Add Printer Wizard Name Your Printer Image: Comparison of the printer. You must assign a name to this printer. Image: Comparison of the printer and server printer and server programs do not support printer and server possible. Printer name: Canon 1475D Do you want to use this printer as the default printer? Image: Comparison of the printer as the default printer?
Click Next.	< <u>Back</u> Next> Cancel
At this screen, you must enter a share name if you want to share the printer with other network users.	Add Printer Wizard Printer Sharing You can share this printer with other network users. If you want to share this printer, you must provide a share name. You can use the suggested name or type a new one. The share name will be visible to other network users. Do not share this printer O Do not share this printer O Ename Canori47
Click Next .	< Back Next> Cancel
At this screen, you have the option of entering a location and description of your printer.	Add Printer Wizard Location and Comment You have the option of supplying a location and description of this printer. You can describe the location and capabilities of this printer. This information may be helpful to users. Location: HQ, 5th floor Comment: Canon color printed
Click Next .	< Back Next > Cancel

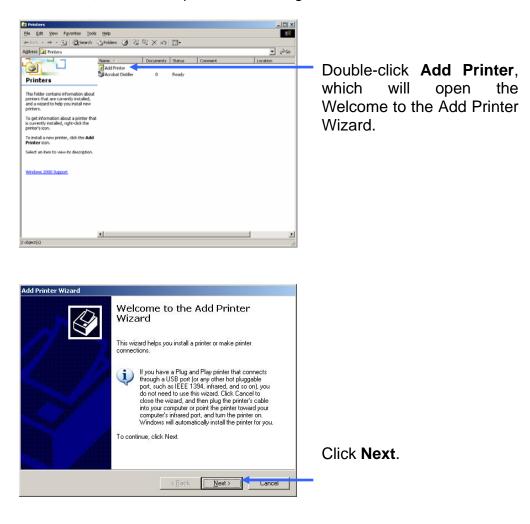
Select Yes , to print a test page. A successful printing will confirm that you have chosen the correct driver.	Add Printer Wizard Print Test Page To confirm that the printer is installed properly, you can print a test page. Do you want to print a test page? Image: Ima
Click Next .	< <u>Back</u> Next> Cancel
This screen gives you information about your printer.	Add Printer Wizard Image: State
Click Finish.	< Back Finish Cancel
When the test page has printed, click	Go to Start > Printers and Faxes File Edit Yiew Favorites Iools Help Back Printers and Faxes Address Printers and Faxes
Canon 1475D PictBridge A test page is now being sent to the printer. Depending on the speed of your printer, it may take a minute or two before the page is printed. The test page briefly demonstrates the printer's ability to print graphics and text, and it provides technical information about the printer driver. If the test page printed, click OK. If the test page did not print, click Troubleshoot. If use the page did not print, click Troubleshoot.	Printers and Faxes. A Printer Tasks successful Add a printer installation See what's printing will display Pause printer the printer Rename this printer icon as Set printer properties

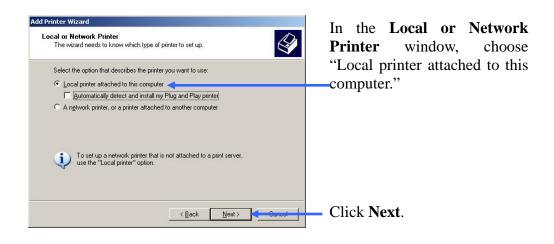
You have successfully added a printer.

ctBridg

Installing a Printer on your DI-604UP for Windows 2000

The DI-604UP can be used as a print server for devices on your LAN. Once you have installed the USB printer through the router, the user must set up the computer on the LAN for the printer as well. The following explanation will guide you through the steps needed to do this. Remember to enter the same **Queue Name** on the PC as your router displays or the printer will not function properly. To begin the process, open the Printer window on your PC by clicking **Start > Settings > Printers**, which will open the following window.









The next window to appear is the Welcome to the Add Standard TCP/IP Printer Port Wizard. Make sure that the printer is turned on and the network is properly configured.

Click Next.

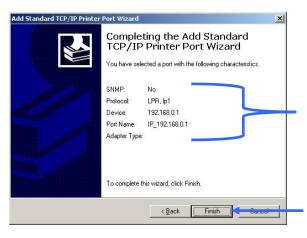
Add Standard TCP/IP Printer Port Wizard Add Port For which device do you want to add a port? Enter the Printer Name or IP address, and a port name for the desired device.	Enter the IP address (default: 192.168.0.1) of the DI-604UP to the "Printer Name or IP Address" field.
Printer Name or IP Address: 15216801 Port Name: IP_192.168.0.1 Address: Back	In the Port Name field, be sure to add a name to the router IP address to differentiate it from other devices (ex: IP_192.168.0.1dlink).

	rt Information Required could not be identified.
	evice is of unknown type. Be sure that:
	properly configured. on the previous page is correct.
	e address and perform another search on the network by returning to the
previous wizard i	page or select the device type if you are sure the address is correct.
Device Type -	Generic Network Card
Device Type -	Generic Network Card
Device Type -	

Click **Next**.

After clicking **Next**, the Wizard requires additional information to complete the process. In the **Additional Port Information Required** window, click **Custom > Settings**. In the following window, the user will add the Queue Name.

<u>P</u> ort Name: Printer Name or IP <u>A</u> ddress:	IP_192.168.0.1	In the Configure Standar TCP/IP Port Monitor window first select LPR in the Protoco
Protocol C <u>R</u> aw	€ LPR	section.
Raw Settings Port Number: 910 LPR Settings Queue Name:		
LPR Byte Counting Enab	led	was automatically generated for
SNMP Status Enabled		you by your DI-604UP (in th
	fic.	you by your DI-604UP (in th case, lp1).



The final window will be the **Completing the Add Standard TCP/IP Printer Port Wizard** window, as shown to the left. Here you can view the properties of the added printer, including the IP address, protocol and queue name.

Click **Finish** to complete the wizard.

Technical Support

D-Link's website contains the latest user documentation and software updates for D-Link products.

Canadian customers can contact D-Link Technical Support through our website or by phone.

Tech Support for customers within Canada:

Telephone: (800) 361-5265

Mon. to Fri. 9:00AM to 9:00PM

World Wide Web http://support.dlink.ca

Email support@dlink.ca

