Product: DPR-1020					Firmware Version: 1.00
D-Lin	ĸ				$\prec$
DPR-1020	Setup	Advanced	Maintenance	Status	Help
Device Info Network	DEVICE INFO The following shows ?	Helpful Hints. Print Server Statusi The information about the			
Print Log Einstei Off Inc Reboot	PRINT SERVER STATUS Server Name : dlnk-812AFA Model : DPR-1020 Firmware Version : 1.00 (2008-09-03) MAC Address : 00 FF 74 81 2A FA IP Address : 10.62.31.15 (Marual)				print server, including the firmware version, MAC, DP address, and up time, com- be found in this field. <b>Printer Status:</b> The lians in the field display the information of the printer, such as the given name for the printer, speed, printer status, and status of your printing

Highlight the printer, as shown. If the desired printer is not on the list, click **Have Disk** and insert the printer driver disk that came with your printer to install the printer drivers.

Click Next

Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.         Manufacturer <ul> <li>Frinters</li> <li>Gestetner</li> <li>HP</li> <li>IBM</li> <li>infotec</li> <li>HP LaserJet 4/4M PS (300 dpt)</li> <li>HP LaserJet 4000 Series PCL 5</li> <li>HP LaserJet 4000 Series PCL 5</li> <li>HP LaserJet 4000 Series PS</li> </ul>	Install the printer	driver	
Manufacturer     Annufacturer       Gestetner     HP       HP     HP       IBM     HP       Infotec     HP       LiserJet 4/000 Series PCL 5       HP       LiserJet 4000 Series PCL 5       HP       HP <td< th=""><th>Select the manual</th><th>facturer and model of your printer. If your printer came with</th><th>an installation</th></td<>	Select the manual	facturer and model of your printer. If your printer came with	an installation
Manufacturer     Frinters       Gestetner     HP LaserJet 4/4M PS (300 dpl)       HP     HP LaserJet 4/000 Series PCL 5       IBM     HP LaserJet 4000 Series PCL 5       infotec     HP LaserJet 4000 Series PS	compatible printe	Disk, if your printer is not listed, consult your printer docum prisoftware.	entation for
Manufacturer     Printers       Gestetner     Image: HP LaserJet 4/4M PS (300 dpl)       HP     Image: HP LaserJet 4000 Series PCL 5       IBM     Image: HP LaserJet 4000 Series PCL 5       Infotec     Image: HP LaserJet 4000 Series PS			
Manufacturer     Frinters       Gestetner     HP LaserJet 4/4M PS (300 dpl)       HP     HP LaserJet 4/00 Series PCL 5       IBM     HP LaserJet 4000 Series PCL 5       infotec     HP LaserJet 4000 Series PS			
Gestetner     Image: HP LaserJet 4/4M PS (300 dpt)       HP     HP LaserJet 4/000 Series PCL 5       IBM     Image: HP LaserJet 4000 Series PCL 5       Infotec     Image: HP LaserJet 4000 Series PS	Manufacturer	<ul> <li>Printers</li> </ul>	
HP IsserJet 4000 Series PCL 5 IBM IsserJet 4000 Series PCL 5 ISSERJET ISSERJET I	Gestetner	HP LaserJet 4/4M PS (300 dpl)	
IBM IN HP LaserJet 4000 Series PCL6			1
infotec - From HP LaserJet 4000 Series PS	HP	HP LaserJet 4000 Series PCL 5	
100mm	HP IBM	HP LaserJet 4000 Series PCL5	l
The second	HP IBM infotec	HP LaserJet 4000 Series PCL 5     HP LaserJet 4000 Series PCL6     HP LaserJet 4000 Series PS signed. Windows Update	Have Disk

Click **Next** to start installing the printer.

Tananiat	
rype a print	ername
Printer name:	HP LaserJet 4000 Series PCL 5
	Set as the default printer

After clicked **Print a test page**, a small dialogue box will show up as below. Click **Close**.

Add Printer	
You've successfully added HP LaserJet 4000 Se	ries PCL 5
To see if the printer is working correctly, or to see troubleshooting in a test page. Print a test page	formation for the printer, print
P Laserlet 4000 Series PCNS A test page has been sent to your printer This test page briefly demonstrates the printer's ability to print graphics and text, and it provides technical information about the printer. Use the printer troubleshooter if the test page does not print correctly.	
Troubleshoot printer problems	Finish Cance

### Click Finish.

🚱 🖶 Add Printer
You've successfully added HP LaserJet 4000 Series PCL 5
To see if the printer is working correctly, or to see troubleshooting information for the printer, print a test page. Print a test page
Finish

The printer is now ready for printing with Windows Vista on your network.



# **TCP/IP Printing for Windows XP**

Go to Start => Printers and Faxes => Add a Printer.



When the following screen shows up, click Next.



Select the first option, Local printer attached to this computer, and click Next.

Add Printer Wizard
Local or Network Printer The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use:
Ocal printer altached to this computer
Automatically detect and install my Plug and Play printer
A network printer, or a printer attached to another computer
To set up a network printer that is not altached to a print server,     use the 'Local printer' option. 

Select the second option, **Create a new port**, and highlight **Standard TCP/IP Port** from the pull-down menu. Click **Next**.



## Click Next.



Type the IP address of the MFP server (e.g. 10.62.31.15 used in this manual), which can be referred from the **PRINTER SERVER STATUS** of the MFP server's Web configuration, and then the Port Name will automatically be filled in. Click **Next** 

Add Standard TCP/IP Printer	Port Wizard	X
Add Port For which device do you want	t to add a port?	
Enter the Prinler Name or IP a	ddress, and a port name for the desired device.	
Printer Name or IP Address:	10.62.31.15	
Fort Name.	IP_10.62.31.15	
	< Back Next >	Cancel



Select Custom and click Settings.

Add Standard TCP/IP Printer Port Wizard 🛛 🛛 🔀
Additional Port Information Required The device could not be identified.
The device is not lound on the network. Be sule that: <ol> <li>The device is turned on.</li> <li>The network is connected.</li> <li>The device is properly configured.</li> <li>The address on the previous page is correct.</li> </ol> If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below. Device Type Standard Generic Network Card Custom Settings.
< Back Next > Cancel

Then the follow screen will shows up, select LPR from the Protocol field.

Then enter the Queue Name, which can be referred from PRINTER STATUS of the

MFP server's Web configuration, in the LPR Settings field. Click OK.

onfigure Standard T	CP/IP I	Port Monitor	? 🛛
Port Settings			
Port Name:		IP_10.62.31.15	
Printer Name or IP Addre	ISS:	10.62.31.15	
- Protocol O Raw		⊙ LPR	
Raw Settings Port Number:	515		]
-LPR Settings Queue Name:	dik-81	12AFA-U1	
LPR Byle Counting	Enabled	d	
SNMP Status Enab	led		-
Community Name:	public	c	
SNMP Device Index:	1		
		OK Can	cel

Product: DPR-1029							Firmware Version: 1.00
D-Lin	ĸ						
DPR-1020	Setup	Advan	iced I	laint	enance	Status	Help
Device Info	DEVICE INFO						Helpful Hints
Network	The following shows	the general syst	tem information.				Print Server Status: The information about the
Print Log Elimiter Off Inte Reboot	PRINT SERVER S	FATUS Server Name : Nodel : rare Version : AC Address : IP Address : Up Time :	dink-8124FA DPR-1020 1.00 (2008-09-0 00 FF 74 81 2A i 10.62.31.15 (Ma 0 days, 00:00:17	3) FA nual)			print server, including the firmmene version, MAC(IP address, and up time, can be found in this field. <b>Printer Status:</b> That turns in this field display the information of the printer, such as this given name for the printer, speed, printer status, and status of your printing tests, etc.
	PRINTER STATUS	s USB :	Printer Name Printer Speed Printer Status Total Print Jobs Total Print Sce		dk-812AFA-U1 Off Ine Off Ine 0 0 KBytes		LAN status: You can resultar the networking status in this field, induing the network onmection, speed, and the paddets status.

### Click Next.

Add Standard T	P/IP Printer Port Wiz	ard		X
Additional Port The device of	Information Required sould not be identified.			
The device is not 1. The device is 2. The network 3. The device is 4. The address If you think the at the address and p select the device	lound on the network. Be s turned on. is connected. properly configured. on the previous page is corre- ddress is not correct, click B- perform another search on th type below.	sule that: oct. ack to return to the retwork. If you a	previous page. Th are sure the addres	hen cariect ≈is cariect,
Device Type -				
O Standard	Generic Network Card			×
<ul> <li>Eustom</li> </ul>	Settings			
		< Back	Next >	Cancel

## Click Finish.

Add Standard TCP/IP Printer Port Wizard							
	Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics						
	SNMP: Protocol: Device: Poit Name: Adapter Type:	No LPR, dlk-812AFA-U1 10.62.31.15 IP_10.62.31.15					
	To complete ti	To complete this wizerd, click Finish.					
		K Back Finish Cancel					

Highlight the printer, as shown. If the desired printer is not on the list, click Have Disk and insert the printer driver disk that came with your printer to install the printer drivers.

Click Next

Install Printer Software The manufacturer and mod	lel determine which printer software to use.	Ø
Select the manufacturer disk, click Have Disk. If compatible printer softwa	and model of your printer. If your printer came with an installation your printer is not listed, consult your printer documentation for are.	n
Manufacturer	Printers	-
Lesteiner	HP LaserJet 4	
ІВМ	HP LaserJet 4000 Series PCL	-
infotec	W HP LaserJet 4000 Series PCL6	
Iwatsu	🖉 HP LaserJet 4000 Series PS	~
This driver is digitally signed. Tel me why driver signing is	Windows Update Have Disk	

At this screen, you can input a name for the printer, and then click Next

Name rour Finker	1
You must assign a name to this print	ter.
Type a name for this printer. Becaus name combinations of more than 31 possible.	se some programs do not support printer and server characters, it is best to keep the name as short as
Printer name:	
HP LaserJet 4000 Series PCL	

Select Yes to print a test page, click Next.

Add Printer Wizard	
Print Test Page To confirm that the printer is installed prope	rly, you can print a test page.
Do you want to print a test page?	
⊙ Yes	
O No	
	<pre></pre>

Click Finish. The printer is now ready for printing with Windows XP on your network.

## Add Printer Wizard



## Completing the Add Printer Wizard

You have successfully completed the Add Printer Wizard. You specified the following printer settings:

Name:	HP LaserJet 4000 Series PCL
Share name:	<not shared=""></not>
Port:	IP_10.62.31.15
Model:	HP LaserJet 4000 Series PCL
Default:	Ye:
Test page:	Ye:

To close this wizard, click Finish.

	(Back	Finish	Cancel			

# **TCP/IP Printing for Windows 2000**

Go to Start => Settings => Printers and Faxes => Add a Printer.



When the following screen shows up, click Next.



Select the first option, Local printer attached to this computer, and click Next.

Add Printer Wizard			
Local or Network Printer Is the printer attached to your computer?			Ì
If the printer is directly attached to your co another computer, or directly to the netwo	imputer, click Local p irk, click Network prin	orinter. If it is att nter.	ached to
Local printer			
Automatically detect and installing	y Plug and Play printe	er	
C Network printer			
	< Back	Next >	Cancel

Click **Next** if New Printer Detection page pops up.

Select the second option, **Create a new port**, and highlight **Standard TCP/IP Port** from the pull-down menu. Click **Next**.

Camputers con	municate with printers	through paris.	ť
Select the port	you want your printer t	o use. If the port is not listed,	you can cicate a
O Use the fall	owing port:		
Port	Description	Printer	-
LPT1:	Printer Port		
LPT 2:	Printer Port		
CDM1	Printer Port Serial Port		-
CDM2:	Serial Port		
I CUM3	Serial Part		-
Note: Most	computers use the LP	T1: poit to communicate with	a local printer.
· Create a ne	w poit:		
Type:	Standard T	CP/IP Poit	
	,		
		Z Rock Nie	NULS Day

## Click Next.



Type the IP address of the MFP server (e.g. 10.62.31.15 used in this manual), which can be checked from the **PRINTER SERVER STATUS** of the MFP server's Web configuration, and then the Port Name will automatically be filled in. Click **Next** 

<b>dd Port</b> For which device do you wan	to add a port?	10
Enter the Printer Name or IP a	ddress, and a port name for the desired device	
Printer Name or IP Address:	10.62.31.15	_
Port Name:	IP_10.62.31.15	
	< Back Newt S	Cance



Select Custom and click Settings.

The device of	Information Required build not be identified.			
The device is not t	aund on the network. Be a	sure that:		
. The device is t	urned on.			
<ol> <li>The network is</li> <li>The device is :</li> </ol>	connected.			
<ol> <li>The address or</li> </ol>	n the previous page is corre	ect.		
		1000		
f you think the add he address and pa select the device ( - Device Type —	diess is not corriect, click Ba alforn another search on the ype below.	ack to return to the e network. If you a	e previous page. T are suie the addre	Then carrect ss is correct.
f you think the add he address and pe elect the device to -Device Type	diess is not corriect, click B; erfom another search on the ype below. Generic Network Card	ack to return to the a network. If you a	e previous page. " are sure the addre	Then correct ss is correct.
f you think the add he address and pa select the device to -Device Type O Standard [ O Custom	diess is not corriect, click B; erfom another search on the yoe below. Generic Nelwork Card Settings	ack to return to the a network. If you a	e previous page. are suie the addre	Then carrect ss is correct.
f you think the address and percent the device to be vice type	diess is not corriect, click B. stom another search on the ype below. Generic Network Card Settings	ack to return to the a network. If you a	e previous page. T	Then correct ss is correct.

Then the follow screen will shows up, select LPR from the Protocol field.

Then enter the  $\ensuremath{\textbf{Queue}}$  Name, which can be referred from  $\ensuremath{\textbf{PRINTER}}$  STATUS of the

MFP server's Web configuration, in the LPR Settings field. Click OK.

Additional Por The device	t Information Required could not be identified.	
The device is no	t lound on the network. Be sure that:	
1. The device is	turned on.	
<ol> <li>The network</li> <li>The device is</li> </ol>	is connected. s pioperly configured.	
4. The address	on the previous page is correct.	
4. The address If you think the a	on the previous page is correct. ddiess is not correct, click Back to return to	the previous page. Then correct
<ol> <li>The address</li> <li>If you think the a the address and select the device</li> </ol>	on the previous page is correct. ddiess is not correct, click Back to return to performanother search on the network. If yo type below.	the previous page. Then correct ware sure the address is correct.
<ol> <li>The address</li> <li>If you think the a the address and j select the device</li> <li>Device Type =</li> </ol>	on the previous page is correct. ddiess is not correct, click Back to return to performanother search on the network. If yo type below.	the previous page. Then correct to are sure the address is correct.
<ol> <li>The address</li> <li>If you think the a the address and select the device</li> <li>Device Type</li> <li>C Standard</li> </ol>	on the previous page is correct. ddiess is not correct, click Back to return to perform another search on the network. If yo type below. Generic Network Card	the previous page. Then correct ware sure the address is correct.
4. The address If you think the a the address and select the device —Device Type— © Standard © Custom	on the previous page is correct. ddiess is not correct, click Back to return to perform another search on the network. If yo type below. Generic Network Card	the previous page. Then correct to are sure the address is correct.
4. The address If you think the a life address and j select the device — Device Type — O Standard O Custom	on the previous page is correct. ddiess is not correct, click Back to return to perform another search on the network. If yo type below. Generic Network Card	the previous page. Then correct to are sure the address is correct.

Product: DPR-3323	k						Firmware Version: 1.00
DPR-1020	Setup	Advan	iced P	1aint	enance	Status	Help
Device Info Network	DEVICE INFO The following shows	the general syst	tem information.				Helpful Hints Print Server Status: The information about the
Princ Log Off Inc Reboot	PRINT SERVER S S Firmw M	TATUS Forver Name : Nodel : vare Version : AC Address : IP Address : Up Time :	dink-8124FA DPR-1020 1.00 (2008-09-0 00 FF 74 81 2A i 10.62.31.15 (Ma 0 days, 00:00:17	3) FA nual)			firmware version, MAC/IP address, and up time, can be found in this field. <b>Printer Status:</b> The items in this field display the information of the protein, such as the given name for the printer, speed, printer status, and status of your printing tesks; etc.
	PRINTER STATUS	use :	Printer Name Printer Speed Printer Status Total Print Jobs Total Print Sce		dk-812AFA-U1 Off Ine Off Ine 0 0 KBytes		LAN Status: You can rentar the networking status in this field, including the network connection, speed, and the packets status.

### Click Next.

Add Standard TCP/IP Printer Port Wizard	X
Additional Port Information Required The device could not be identified.	
<ol> <li>The device is not found on the network. Be suite that:</li> <li>The device is turned on.</li> <li>The network is connected.</li> <li>The device is properly conligured.</li> <li>The address on the previous page is correct.</li> <li>If you think the address is not correct, click Back to return to the previous page. Then correct he address and perform another search on the network. If you are suite the address is correct select the device type below.</li> </ol>	set set,
Standard Generic Network Card     Settings	]
< Back Next > Can	cel

## Click Finish.

Add Standard TCP/IP Printer	Port Wizard		X
	Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics		
	SNMP:	No	
	Protocol:	LPR, dlk-812AFA-U1	
	Device:	10.62.31.15	
	Port Name:	IP_10.6231.15	
	Adapter Type:		
	To complete t	nis wizard, click Finish.	
		Kack Finish Cancel	

Highlight the printer, as shown. If the desired printer is not on the list, click Have Disk and insert the printer driver disk that came with your printer to install the printer drivers.

Click Next.

Add Printer Wizard The manufacturer	and model determine which printer to use.
Select the man. disk, click Have comparible print	lacturer and model of your printer. If your printer came with an installation Disk. If your printer is not listed, consult your printer documentation for a er.
Gestetner HP IBM Iwatsu Kodak Kodak Konica	HP LaserJet 4 HP LaserJet 4000 Series PCL HP LaserJet 4000 Series PS HP LaserJet 4050 Series PS HP LaserJet 4050 Series PS HP LaserJet 4M HP LaserJet 4M HP LaserJet 4M HP LaserJet 4M HP LaserJet 4M
	< Back Next > Cancel

At this screen, you can input a name for the printer, and then click Next

Add Printer Wizard			
Name Your Printer You must assign a name for this printer.			Ì
Supply a name for this printer. Some progra combinations of more than 31 characters.	ms da not suppo	rt server and print	ername
Printer name: HELL sees let 4000 Series BCL			
	< Back	Next>	Lancel

Select the first option, **Do not share this printer**, and click **Next**.

i Printer Wizard		_
Printer Sharing You can share this printer wit	n other network users.	$\langle\!\!\langle$
Indicate whether you want th printer, you must provide a sh	s printer to be available to other users. If you share this are name.	
Do not share this printer		
C Share as		
	Z Pook Notes I	2000

Select Yes to print a test page, click Next.



Click **Finish**. The printer is now ready for printing with Windows 2000 on your network.

Printer Wizard			
Print Test Page To confirm that the printer is installed prop	erly, yau can print	a lest page.	
Do you want to print a test page?			
• Yes			
CNo			
	< Back	Nevt	Cancel
	- Duck		

# **TCP/IP Printingfor Windows 98SE/ME**

Go to Start => Settings => Control Panel. Double click on Network, and then click Add.

Network	? ×
Configuration   Identification   Access Control	10.00
The following network components are installed:	
Elient for Microsoft Networks D-Link DFE-550TX FAST Ethernel 10/100 Adapter TCP/IP	
Add         Hemove         Properties           Frimary Network Logon:         Properties         Properties	
Client for Microsoft Networks	•
Eile and Print Sharing	
Description	
OK Cane	el
Highlight **Client** and click **Add**.

lect Network Component Type	?
Click the type of network component you want to install:	
Elient	<u>A</u> dd
Protocol Service	Cancel
A client enables your computer to connect to other computers.	

#### At this window, click Have Disk.

Select Network Client		×
Click the Netw an installation	vork Client that you want to install, then click OK. If you have disk for this device, click Have Disk.	
Manufacturers:	Network Clients:	
💻 Banyan	🖳 Banyan DOS/Windows 3.1 client	
S Microsoft		
Sovell .		
	Have Disk	
		_
	0K Cancel	1

 Insert the DPP-1061 CD-ROM into your CD-ROM drive. Select the letter representing the CD-ROM drive on your computer from the pull-down menu.
 Double-click on the folder **lpr**.

- 3. Highlight Ipr.inf
- 4. Click OK.

Open		? ×
File name:	<u>F</u> olders:	4 ок
lpr.inf	e:\lpr	Cancel
3		Network
	<b>Z</b>	V
	Drives:	
	<b>1</b> 🕢 e:	•

Click OK to accept the location of the file.

Install Fr	om Disk	×
9	Insert the manufacturer's installation disk into the drive selected, and then click DK.	OK Cancel
	Copy manufacturer's files from:	1
	JE:\LPR	<u>B</u> rowse

You should now be back to the Network Properties Page. Highlight LPR for TCP/IP Printing and click Properties.

Network	? ×
Configuration   Identification   Access Control	
The following network components are installed:	
Client for Microsoft Networks	-
💻 LPR for TCP/IP Printing	
■ D-Link DFE-550T×FAST Ethernel 10/100 Adapter TCP/IP	
Add Remove Properties	
Client for Microsoft Networks	J
Eile and Print Sharing	
Description LPR for TCP/IP Printing (v1.00/1997-08-20) enables you to connect to and use the printers connected on the Print Server devices that support TCP/IP LPR printing protocol.	
OK Cano	cel

#### Click Add Port.

LPR for	TCP/IP Printing Proper	lies	×
Ports	Settings		
Po	rt List		-
	Add Port	Delete Port	
		<u>OK</u> (	Cancel

Type in the IP address and Port Name of the MFP server, which can be referred from the **PRINTER SERVER STATUS** and **PRINTER STATUS** of the MFP server's Web configuration, in the corresponding field, and then click **OK**. (The IP Address and Port Name here are just for example only.)

dd Port	X
IP Address :	
10.62.31.15	
Port Name :	
	2.5

Product: DPR-1029	ĸ				Firmware Version: 1.00
DPR-1020	Setup	Advanced	Maintenance	Status	Help
Device Infe Network	DEVICE INFO The following shows the general system information.			Helpful Hints. Print Server Status: The Information about the	
Print Log Capitar Officiae Reboot	PRINT SERVER S S Firmw HJ	TATUS erver Name : dink-812 Model : DPR-102/ are Version : 1.00 (20 AC Address : 00 FF 74 IP Address : 10.62.31 Up Time : 0 days, 0	AFA 18-09-03) 81 2A FA .15 (Manual) 0:00:17		print server, inducing the firmular version, MAC/IP address, and up time, can be found in this field. <b>Printer Status:</b> The items in this field display the information of the printer, auch as the given name for the printer, speed, printer status, and atatua of your printing tasks, etc.

Product: DPR-1029						Firmware Version: 1.00
D-Lin	ĸ					
DPR-1020	Setup	Advan	iced M	laintenance	Status	Help
Device Info	DEVICE INFO					Helpful Hints.
Network	The following shows	the general syst	em information.			Print Server Status: The information about the
Print Log	PRINT SERVER S	TATUS	print serve fitmuse v addreso, a be found e			
affine and a		Model :	DPR-1020			Printer Status
Reboat	Firmw	are Version :	1.00 (2008-09-03	1)		display the information of the printer, such as the
		IP Address :	10.62.31.15 (Mar	A Nual)		given name for the printer, speed, printer status, and
		Up Time :	0 days, 00:00:17			status of your printing backs, etc.
	PRINTER STATUS	;				LAN Status: You can monitor the
		US8 :	Printer Name	: dik-812AFA-U1		field, including the network
			Printer Speed Printer Status	: Off ine : Off ine		the packets status.
			Total Print Jobs	: 0		
			Total Print Size	: O KBytes		

The IP Address and Port Name will be displayed in the following screen. (The IP Address and Port Name here are just for example only.) Click **OK**.

LPR for	TCP/IP Printin	g Properti	es	×
Ports	Settings			
- Po	rt List			
	10.62.31.15VDLK	812AFA-U1		
				- 11
				_
	<u>A</u> dd Port		<u>D</u> elete P	ort
			(OK	] Cancel

#### Click OK.

etwork	?)
Configuration   Identification   Access Control	
The following network components are installed:	
E Client for Microsoft Networks LPR for TCP/IP Printing D-Link DFE-550TX FAST Etherner 10/100 Adapter TCP/IP	
Add Hemove Property Frimary Network Logon:	es
Client for Microsoft Networks	-
<u>File and Print Sharing</u>	
Description	
<u> </u>	Cancel

Windows will ask for a restart. Click Yes.

System S	Settings Change	$\times$
?	You must restart your computer before the new settings will take effer Do you want to restart your computer now?	ct.
	<u>Yes</u> <u>N</u> o	

Once your computer has rebooted, click on Start => Settings => Printers => Add Printer. When the Add Printer Wizard screen appears, click Next.



Select Network Printer and click Next.



Type in the path if you know it; otherwise, click **Browse**.



At the following screen, browse for the printer port and highlight the port (e.g. dlink-1D6FA3 in this manual). Click **OK**.



If the network path is not specified, type in the IP Address and Port Name of the MFP server. Select Yes or No to enable or disable printing from MS-DOS based programs. Click **Next**.



Highlight the printer, as shown. If the desired printer is not on the list, click Have Disk and insert the printer driver disk that came with your printer to install the printer drivers. Click **Next**.

Add Printer Wizard Click the manu installation disk documentation	acturer and model of your printer. If your printer came with an , click Have Disk. If your printer is not listed, consult your printer for a compatible printer.
<u>M</u> anufacturers:	Printers:
Bestetner Hermez HP IBM Kodak Kyocera LazetMoster	HP LaserJet IIISi     HP LaserJet IIISi     HP LaserJet IIISi PostScript     HP LaserJet IID     HP LaserJet IID     HP LaserJet IID PS Cartridge     HP LaserJet IIP     HP LaserJet IIP PLas
	Have Disk
	( <u>B</u> ack <u>Next)</u> Cancel

#### Click Next.



Select Yes to print a test page. Click Finish.



To check whether the printer is installed, go to Start => Settings => Printers.



# **Unix/Linux Printing**

# **Printing Text Files form Unix**

Text files on Unix systems contain lines that end with "newline" characters, as opposed to MS-DOS and Windows-related operating systems that end with a carriage return followed by a linefeed. Most printers require a carriage return/linefeed pair at the end of each line, making it necessary for some translation to be done before Unix text files can be printed on most printers.

For this purpose, you can define two "printers" for the same printer port, one that prints to the port itself, and one that prints to the port name with \_TEXT added to the name. Files printed to the second port will be translated so that the printer has the carriage return/linefeed pairs that it needs.

For example, you could define a printer hp51 that prints to port PS-142634-P1, and a printer hp51t that prints to port PS-142634-P1\_TEXT. Your graphics files could then be printed to the hp51 printer, and "raw" text files could be printed to the hp51t printer.

### Printing form BSD Unix Versions

For "flavors" of the Unix operating system derived from or related to the BSD releases, such as SunOS 4.x, Linux, BSD/OS, FreeBSD, or NetBSD, you can use the following procedure to enable users to print to a printer connected to your D-LINK network print server:

**1.** Log in as the superuser (root).

2. Add an entry for the print server in the host's /etc/hosts file, giving a hostname for the print server's IP address. A line in /etc/hosts contains an IP address and one or more aliases for the host. For example:

202. 39. 74. 40 ps-142634 ps-142634.dlink.com.tw

If you use DNS (the Domain Naming Services protocol), you can add an address record entry to your DNS database for the print server.

**3.** Create a spool directory for the printer:

On SunOS systems, create the directory as a subdirectory of /var/spool, with the same name as the printer (e.g., /var/spool/hp51).

On Linux systems, create the directory as a subdirectory of /user/spool/lp.

♦ On BSD/OS, FreeBSD, or NetBSD systems, create the directory as subdirectory of /var/spool.

**4.** Change the owner and permissions of the directory so that it is owned and writable by group daemon, using the following commands:

```
chown bin.daemon /var/spool/hp51
chmod 775 /var/spool/hp51
```

5. Add an entry for the printer to /etc/printcap, similar to the following: hp51: \

:lp=:sd=/var/spool/hp51 :mx#0:\

#### :rm=ps-142634:rp=ps-142634-p1:

The meaning of each of the entries is described below. The directory path in the sd spool directory entry should match the directory name you created above. If your entry requires more than one line you can escape the newline with a backslash.

#### 6. Issue the command

#### lpc start hp51

to start a spool daemon for the printer. The printer will now be available for use.

7. Optionally, add another printcap entry (and issue another lpc start command) for a second printer, using the port\_TEXT port. This second printer name can be used for printing text files.

Entries in /ect/printcap begin with a name for the printer or a list of name, separated by | (a vertical bar). The entries used above are:

◆ 1p= The lp entry is used to specify a local printer device.

Since the printer is a remote printer, this entry should be blank.

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- **sd=dir** The location of the printer's local spool directory.
- mx#blocks The limit for print job files in the local spool directory;

0 means no limit.

• **rm=address** The host where the remote printer is located, in this case the D-Link print server.

• **rp=printer** The name of the printer on the remote host.

For the D-Link print server, the port name should be used.

Note: this entry is case-sensitive.

### Printing from SCO Unix System V/386

To allow printing to a printer attached to your D-LINK network print server from a SCO Unix System V/386 host.

1. Login as the superuser (root).

2. Add an entry for the print server in the host's /etc/hosts file, giving a hostname for the print server's IP address. A line in /etc/hosts contains an IP address and one or more aliases for the host. For example:

202.39.74.40 ps-142634 ps-142634.dlink.com.tw

If you use DNS (the Domain Naming Services protocol), you can add an address record entry to your DNS database for the print server.

3. Change to the /dev directory, and issue the command mkdev rlp

4. The script will ask: Do you want to install or delet remote printing (i/d/q)? Answer i and press Enter to continue.

5. The script will ask: Do you want to change the remote printer description file /etc/printcap (y/n)? Answer y and press Enter to continue.

6. The script will ask:
Please enter the printer name (q to quit):

Enter an alias for the printer on the local machine and press Enter. This name should be the same as the destination port name.

7. Answer r (remote printer) to the question Is printer a remote printer or a local printer (r/l)?

8. When prompted with the question:

Please enter the name of the remote host that printer is attached to:

then enter the address of the D-Link print server. You can use the name you added to /etc/host in the step above.

9. Confirm that your entries are correct.

```
Is this correct? (y/n)
```

10. Answer the question: Would you like this to be the system default printer? (y/n)

**11.** When you are done adding remote printers, enter q for the printer name.

12. Answer y to the question

Do you want to start remote daemon now (y/n)?

Once remote printing is set up, you can use the **1p** command to print jobs to the new printer. For more information, consult your SCO Unix documentation.

# **Printing from Solaris**

To allow printing from a Sun Solaris workstation,

**1.** Log in as the superuser (root).

2. Add an entry for the print server in the host's /etc/hosts file, giving a hostname for the print server's IP address. A line in /etc/hosts contains an IP address and one or more aliases for the host. For example:

202.39.74.40 ps-142634 ps-142634.dlink.com.tw

If you use DNS (the Domain Naming Services protocol), you can add an address record entry to your DNS database for the print server.

**3.** In OpenWindows, start the **admintool** program.

4. Click on the Printer Manger icon.

5. From the Edit menu, select Add Print, then Add Access to Remote Printer...

6. Enter values for the fields as follow:

Printer Name This field should contain the name of the printer port you wish to use. The field is case-sensitive.

Printer Server This field should contain the IP address of the print server, or the alias name you added in step 2.

♦ Printer Server OS This field should be set to BSD.

7. Confirm the addition.

8. Optionally repeat the addition to add another printer for printing text files,

with\_TEXT appended to the port name.

Once you have added the new printer, you can use the **1p** command to print files to the printer. Consult your Solaris documentation for details.

# **Printing from Red Hat Linux**

#### Adding a Printer

1. Click the printer icon



at the bottom of the desktop.



2. Since no printer is set up so far, a prompt appears asking to run the printer configuration tool.



3. Click the **OK** button in the pop-up dialogue box to open the man **Printer configuration tool** menu. Note that to use the **Printer configuration tool** you must have root privileges, and to start the application you may also type the command: "redhat-config-printer".



4. Click the **New** button **New** in the **Printer configuration tool** menu.

New Edit Delete Default Apply	Action	Tes	t <u>H</u> elp			
Dueue name 👻 Default Description	land text New	I <b>M</b> Edit	Delet	e Defai	ult Apply	
•	Queue na	me 🕶	Default	Descript	ion	

#### Printer Configuration Tool menu

5. The Add a new print queue menu appears, click Forward to continue.



6. Enter a unique name for the printer in the **Name** text field. The printer name cannot contain spaces and must begin with a letter. The printer name may contain letters, numbers, dashes (-), and underscores (\_). Optionally, enter a short description for the printer, which can contain spaces. Then click **Forward** to enter **Queue type** window.

Please enter a name for name that begins with a l	this queue. Choose a short
Name: printer	interest and contains no spaces.
About	
If you like, you can ente to help you identify it mo	r a description of the printer re easily.
Short description:	

7. Select Networked UNIX (LPD) in the Select a queue type pull down menu, enter the IP address of the print server to which the printer is attached in Server field, and type the port name in queue field. Click Forward to select the type of printer.

Select a queue type:	Networked UNIX (LPD)	¥
Server:	Queue:	
10.24.313	Ip	

8. Select the printer model.

Select the printer mar	nufacturer	and model.	Notes	
Generic (click to sel	ect manuf:	acturer)	-	*
Text Only Printer				-
Raw Print Queue				1
24-pin 136 Col				
24-pin 80 Col				-

If a printer has not been detected automatically, select the model from the list. You can manually select the name of the printer manufacturer from the **Generic (click to select manufacturer)** pull-down menu, and the printer model from the sub-list. Click **Forward** to continue.

rinter model		
Select the printer manufa	cturer and model.	<u>N</u> otes
HP		±
LaserJet 3200		·
LaserJet 3200m		8
LaserJet 3200se		
Laser let 3300 MEP		¥
(S) Upla	Cancel	1 Pack

9. The last step is to confirm your printer configuration. Click Apply button to confirm or Back button to modify the configuration.

10. Print a test page to make sure the printer is functioning properly. To print a test page, select the printer from the printer list, then select the appropriate test page from the Test drop-down menu.



# Setting up Printing in Mac OS X Tiger(10.4.9)

#### NOTE: Mac OS printing is supported by Postscript printers only!

With Mac OS X Tiger (10.4), you can use Apple Talk, Bonjour, Internet Printing Protocol (IPP), Line Printer Daemon (LPD), and HP Jet Direct-Socket printing through Print Server.



Click on this icon

in your Dock to open your System

Preferences window as below.



Click on the **Network** icon in **System Preferences** menu to view the menu below.

Select the **Apple Talk** tab in the **Network** menu. Check to select the **Make Apple Talk Active** option. Click on the **Apply Now** button and close the menu. Apple Talk is now active on the system. Now a printer can be added.

00	Network	
Show All	Q	
Location: Show:	Automatic  Built-in Ethernet	
TCP/IP PP	PoE AppleTalk Proxies Ethernet	-
	Make AppleTalk Active	
Computer Name:	alpha's Power Mac G4 (AGP (Can be changed in Sharing Preferences)	
AppleTalk Zone:	(	
Configure:	Automatically	
		?
Click the lock to prevent fur	ther changes. Assist me Ap	ply Now

### **Adding a Printer**

Use the **Go** menu at the top tool bar and select **Applications** option and find the **Utilities** folder or open the **Utilities** folder directly in **Go** menu.

Go Windo	w Help
Back	] 36
Forward	第]
Enclosing	Folder 第1
🗏 Compu	ter 🗘 🕱 C
👚 Home	<b>ជំអ</b> អ
Networ	k បិ≋K
🔮 iDisk	•
📌 Applica	tions 🗘 🛱 A
🚺 Utilities	÷
Recent Fo	ders 🕨
Go to Fold	er ம்#G
Connect to	o Server ЖК

In the Utilities folder, find and select Printer Setup Utility to see the Printer List dialog window.



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Click Add button to open Printer Browser window.

000				Printer Li	st		Θ
Make Default	Add	<b>O</b> Delete	1 Utility	ColorSync	6 Show Info		
Name	1			*	Status	Kind	
							1

Mac OS X Tiger (10.4) supports five printing protocols:

- 1. AppleTalk
- 2. Bonjour
- 3. Internet Printing Protocol (IPP)
- 4. Line Printer Daemon (LPD)
- 5. HP Jet Direct Socket

To add an Internet Printing Protocol enabled, Line Printer Daemon enabled or HP



Jet Direct – Socket enabled printer, click on the IP Printer button and follow the

instructions to add an IP Printer beginning on "Adding an IP printer" session.

### **AppleTalk-enabled or Bonjour-enabled Printers**



To add an AppleTalk-enabled or Bonjour-enabled printer, click the Default Browser

button in the Printer Browser menu.

00	Printe	er Browser	(
113	4	(Q,-	
ault Browser	IP Printer	Search	
Printer Name		Connection	1
dlk-C352AB-U	1	AppleTalk	
dlk-C352AB-U	1	Bonjour	
Name:	dlk-C352AB-U1		
Name: Location:	dlk-C352AB-U1 Local Zone		
Name: Location: Print Using:	dlk-C352AB-U1 Local Zone Auto Select		
Name: Location: Print Using:	dlk-C352AB-U1 Local Zone Auto Select Opening connection		•

Select the printer model from **Printer Name** list and **Connection** type in the **Printer Browser** menu. The printer name selected should be the same as that appearing listed in the Printer Server's web manager. In the example here, the printer name is dlk-C352AB-U1. By default the **Printer Browser** will use the **Auto Select** for **Print Using:** to determine what printer configuration to use. This may also be manually selected in the **Print Using** drop-down menu by brand and model. Click the **Add** button to exit the **Printer Browser** window and implement the new setting.

00	Printer Br	rowser		C
g	9	Q.+		
efault Browser	IP Printer		Search	
Printer Name		*	Connection	
dlk-C352AB-U	1		AppleTalk	
dlk-C352AB-U	1		Bonjour	
	-			
Name:	dlk-C352AB-U1			
Location:	Local Zone			
Print Using:	HP			•
	Model		4	5
	III Easelyt 2200			2
	HP LaserJet 2300			
	HP Laserjet 2410			
	HP Laserjet 2420		1	
	HP LaserJet 2430			
	HP Laserjet 3015			4
	HP Laserjet 3020 3030			-
	HP1 aserlet 3200			-
0	1		>	-
7	(	More Printers	) ( Add	

The printer that has just been added will show up in the **Printer List** menu, it might take a few seconds depending on network conditions. When the printer appears listed it is ready for use. Quit the **Printer Setup Utility** and start printing.


## **Adding an IP Printer**

To add an Internet Printing Protocol enabled, Line Printer Daemon enabled or HP



Jet Direct – Socket enabled printer, click the IP Printer button in the Printer

**Browser** window. Select a desired printing protocol from the **Protocol** drop-down menu.

000	Р	Printer Browser		
(IB	9	(Q,+		
Default Browser	IP Printer	Se	arch	
	Internet Driv	ating Dratecal IDD		
Brotocol	Internet Prin	Decrease LPD	-	
Protocol	HP let Direc	t – Socket		
Address				
Address.	Entar bost name	or IP address		
	Lincer nust name	or in address.		
Queue:			•	
	Leave blank for o	default queue.		
_				
Name:				
Location:				
Print Using:	Please select	a driver or printer model	-	
comg.	Critane select	as an it as an perifical ritation		
2		More Printers	( Add )	
0				

Type the IP Address of the printer. The name will appear in the **Name** field when the printer is found. The **Printer Browser** will indicate that it is verifying the address. If the printer is found, the **Printer Browser** will state "Valid and complete address" in the **Address** field.

The printer utility is able to detect the printer and may automatically select the correct printer driver in the **Print Using** field. Or manually select the printer-maker from the **Print Using** drop-down menu, and then select the printer model from the scroll-down list, or select **Generic PostScrip Printer** option from the **Print Using** drop-down menu if the model is not listed. To implement the setting, click **Add** button.

The setup procedures for these three printing protocols (Internet Printing Protocol (IPP), Line Printer Daemon (LPD), and HP Jet Direct – Socket) are basically the same. Illustrated examples are include below for the sake of reference.

### For set up LPD Printing:

1. Enter the IP address of the print server to which the printer is attached in

### Address field.

2. Type the port name in the **Queue** field.

000	Printer Browser			0
9		(Q+		
Default Browser	IP Printer		Search	
-			_	7
Protocol:	Line Printer	:		
Address:	10.62.31.15		14	1
	Valid and comp	lete address.		
Queue:	dlk-C352AB-U1			)
	Leave blank for	default queue.		
	10 ( ) 11 15			
Name:	10.62.31.15			
Print Using:	Ceneric Post	Script Printer		
rrint using.	Ceneric rosi	Schpt Frinter		
		Change Development		~
?		More Printers.	Add	

Click **Add** button after done the section of printer model in the **Print Using** drop-down menu.

### For set up IPP Printing:

1. Enter the IP address of the print server to which the printer is attached in

Address field. After that, type ": 80" or ": second port" if print server's second port is enabled.

2. Type the port name in the **Queue** field.

	Printe	r Browser		C
g	9	(Q.+		
Default Browser	IP Printer		Search	
(	(			
Protocol:	Line Printer Daem	ion – LPD		•
Address:	10.62.31.10:80			
	Valid and complete ad	dress.		
Queue:	dlk-C352AB-U1			•
	Leave blank for defaul	t queue.		
Name:	10.62.31.10			
Location:				
Print Using:	Generic PostScript	t Printer		-
Name: Location: Print Using:	Generic PostScript	t Printer		•

Click **Add** button after done the section of printer model in the **Print Using** drop-down menu.

### For set up Socket Printing:

1. Enter the IP address of the print server to which the printer is attached in **Address** field. After that, type ": **9100**" for port 1, ": **9101**" for port 2 or ": **9102**"

for port 3.

2. Keep the blank in **Queue** field.

			_
IP Printer	Q+	Search	
US lat Direct C	1		-
HP Jet Direct - S	ocket		
10.62.31.5:9100 /alid and complete a	ddress.		
and block for defer			•
eave blank for defat	an queue.		
10.62.31.5			
Canadia Dast Carl	at Deinstein		-
Generic PostScrip	prennter		•
	More Printe		Add
	IP Printer HP Jet Direct - S 10.62.31.5:9100 /alid and complete a .eave blank for defau 10.62.31.5 Generic PostScrip	P Printer HP Jet Direct - Socket 10.62.31.5:9100 /alid and complete address. eave blank for default queue. 10.62.31.5 Generic PostScript Printer More Printer	P Printer Search  HP Jet Direct - Socket  10.62.31.5:9100  /alid and complete address.  eave blank for default queue.  10.62.31.5  Generic PostScript Printer  More Printers

Click **Add** button after done the section of printer model in the **Print Using** drop-down menu.

When the **Installable Options** pop-up window shows up as below, click **Continue** button.

00	Printer Browser
Install	able Options
10.62	31.5
Make sure your full advantage o hardware, checl	printer's options are accurately shown here so you can take f them. For information on your printer and its optional t the documentation that came with it.
Tray 3	
Memory Cont	iguration: 64 – 127 MB RAM
Duplex Ur	it also exceeded and exceeded
Paper Matchi	ng: Prompt User for correct size 🛟
?	Cancel Continue

The printer that has just been added will show up in the **Printer List** menu, it might take a few seconds depending on network conditions. When the printer appears listed it is ready for use. Quite the **Printer Setup Utility** and start printing.

000		Printer List			0	
Make Default	Add	Oelete	A G	ColorSync	Show Info	
Name				*	Status	Kind
10.1.32.2 10.13.55	.251 .5					Generic PostScript Pr Generic PostScript Pr HP Color LaserJet 3

## Setting up AppleTalk Printing in Mac OS 9

### **NOTE**: Mac OS printing is supported by Postscript printers only!

The AppleTalk network protocol is used with computers using the MacOS operating system. It can be used for network communications over standard Ethernet or Fast Ethernet using the EtherTalk transport, or over a proprietary low-speed LocalTalk transport.

MFP server can be used for network printing to PostScript printers. You can print from any MacOS computer connected to your Ethernet network, either directly using an EtherTalk connection, or indirectly through a LocalTalk-to-EtherTalk router.

**NOTE**: The Chooser name of a printer connected to one of the Print Server's ports is the same as its Port Name. If you are using AppleTalk printing, you will need to make sure that every Port Name is unique among all of the network printers in your AppleTalk zone. The Port Names shown in this manual are examples only.

To set up MFP server so that it can be used for AppleTalk printing:

Make sure the AppleTalk protocol is enabled in your Macintosh.

Make sure the PC's IP Address must correspond with the Print Server's IP Address in the same segment for the two devices to communicate.

Launch the browser and enter print server web interface, select the ADVANCED tab, click Advanced LAN button and then scroll to the bottom to the AppleTalk protocol section

If your AppleTalk network is divided into AppleTalk zones, you will have to specify which zone the Print Server should be in. You should locate the Print Server in the same zone as most of the users who will be using it. If your network is not divided into zones, the AppleTalk Zone field should contain a single asterisk (\*).

For each Printer Port that will be used for AppleTalk printing, you may need to change the AppleTalk Port Settings in the **Advanced LAN** screen, shown as below.



### AppleTalk

Enter the AppleTalk Zone name in the box. In the following options, enter the related configuration, such as the printer type.

Chooser Name: Display the print server's port name.

Printer Type: Enter the printer's type in this box.

PostScript Level: Select from the pull-down menu (Level 1 or Level 2).

Font Group: Select from the pull-down menu.

The exact procedure for selecting a PostScript printer connected to MFP server may vary slightly, depending on what printer driver version you are using. The procedure described below assumes you are using the LaserWriter 8.

To choose a printer connected to MFP server as your MacOS workstation's default printer, open the Chooser by selecting Chooser from the Apple menu. Select the LaserWriter 8 icon on the left. Make sure that AppleTalk is set to **Active**.

A list of all networked PostScript printers will be displayed as follow.

Double-click the name of the Printer Port you wish to use. The Printer Ports shown are examples only.



If you have not previously set this printer as the default, your computer will prompt you for a PostScript Printer Description file. Choose **Select PPD**.

Current Printer De "Generic"	escription File (PPD) Sele	cted:
Auto Setup	Select PPD	Help
Printer Info	Configure	Cancel
		ОК
	Current Printer De "Generic" Auto Setup Printer Info	Current Printer Description File (PPD) Sele "Generic" Auto Setup Select PPD Printer Info Configure

Select the appropriate printer description file for your printer.

Click Open. (If your printer is not listed, click Generic to use a generic printer description.)

If you wish to access this setting in the future, you can use the Setup button in the Chooser window.

The selected printer will become your computer's default printer. You may need to choose Page Setup in any applications you have open.

## **Technical Specifications**

## **Printer Connection**

Printer Port: USB 2.0

Bi-directional Communication: Hewlett-Packard PJL (Printer Job Language)

standard for bi-directional communication.

## **Network Connection**

Network Standards: 100Base-TX Fast Ethernet

Network Data Transfer Rate: 10/100 Mbps (megabits per second)

Network Connector: RJ-45

### **Network Protocols**

Ethernet Frame Types: 802.2, 802.3, Ethernet II, SNAP (auto-switching)

Transport Protocols: TCP/IP, NetBEUI, AppleTalk/EtherTalk, LPR,SMB

TCP/IP Protocols Supported: BOOTP, SNMP, FTP, LPD, RARP, DHCP, IPP

## **Management and Diagnostics**

Standard: SNMP

MIBs: MIB-II (RFC 1213)

Diagnostic LED Indicators: Power, Link/Act, USB

## **Environmental and Physical**

Power Supply: External power supply providing 5V, 2.5A DC

Dimensions: 58.1(W) x 26.5(H) x 90(D)mm

Weight: approx. 10.3 oz. (292g)

Operating Temperature: 32 to122 °F (0 to 50 °C)

Storage Temperature: -13 to 131 °F (-25 to 55 °C)

Humidity: 5% to 95% non-condensing

Emissions: FCC Class B, CE Class B, VCCI Class B

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## **Contacting Technical Support**

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## Warranty and Registration

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. (—D-Link") provides this Limited warranty for its product only to the person or entity that originally purchased the product from:

D-Link or its authorized reseller or distributor and

Products purchased and delivered within the fifty states of the United States, the District of

Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, addresses with an APO or FPO.

Limited Warranty: D-Link warrants that the hardware portion of the D-Link products described below will be free from material defects in workmanship and materials from the date of original retail purchase of the product, for the period set forth below applicable to the product type (—Warranty Period"), except as otherwise stated herein.

1-Year Limited Warranty for the Product(s) is defined as follows:

Hardware (excluding power supplies and fans) 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 during the Warranty Period at no charge to the original owner or to refund at D-Link's sole discretion. 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 have an identical make, model or part. D-Link may in its sole discretion 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. Repaired or replacement Hardware will be warranted for the remainder of the original Warranty Period from the date of original retail purchase. 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 retail purchase of the Software for a period of ninety (90)days (-Warranty Period"), provided that 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 or to refund at D-Link's sole discretion. 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, Software will be warranted for the remainder of the original Warranty Period from the date or original retail purchase. 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.

**Non-Applicability of Warranty**: The Limited Warranty provided hereunder for hardware and software of D-Link's products will not be applied to and does not cover any refurbished product and any product

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purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold —As-Is" without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary. **Submitting A Claim**: The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the

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customer shall submit a claim to D-Link as outlined below:

The customer must submit with the product as part of the claim 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. Do not include any manuals or accessories in the shipping package. D-Link will only replace the defective portion of the Product and will not ship back any accessories.

The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery (—COD") is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to D-Link Systems, Inc., 53 Discovery Drive, Irvine, CA 92618. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link, with shipping charges prepaid. Expedited shipping is available if shipping charges are prepaid by the customer and upon request.

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, if in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence,

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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; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product. Repair by anyone other than D-Link or an Authorized D-Link Service Office will void this Warranty. **Disclaimer of Other Warranties**: EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THEPRODUCT IS PROVIDED —AS-IS" WITHOUT ANY WARRANTY OF ANY KIND WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSEAND NON-INFRINGEMENT. IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANYTERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO NINETY (90) DAYS. EXCEPTAS EXPRESSLY

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COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRERISK AS TOTHE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OFTHE PRODUCT.

Limitation of Liability: TO THE MAXIMUM EXTENT PERMITTED BY LAW, D-LINK IS NOT LIABLE UNDERANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANYLOSS 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 OFGOODWILL, LOSS OF REVENUE OR PROFIT, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, FAILURE OF OTHER EQUIPMENT OR COMPUTER PROGRAMS TO WHICH D-LINK'S PRODUCT IS CONNECTEDWITH, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY

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PRODUCTRETURNED TO D-LINK FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT. RELATINGTO WARRANTYSERVICE. OR ARISING OUT OFANY BREACH OF THIS LIMITED WARRANTY. EVEN IF D-LINKHAS 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. THE MAXIMUM LIABILITY OF D-LINK UNDER THIS WARRANTY IS LIMITED TO THE PURCHASE. PRICE OF THE PRODUCT COVERED BYTHE WARRANTY.THE FOREGOING EXPRESS WRITTEN WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ANY OTHER WARRANTIES OR REMEDIES. EXPRESS. IMPLIED OR STATUTORY.

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.

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CE Mark Warning: This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

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 radiofrequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for

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compliance could void the user's authority to operate this 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.

### IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of about 8 inches (20 cm)

between the radiator and your body.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

#### REMARK

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

#### REMARK

IEEE 802.11b or 802.11g operation of this product in the Canada is firmware-limited to channels 1 through 11.

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

### NCC Warning Statement

### Article 12

Without permission, any company, firm or user shall not alter the frequency, increase the power, or change the characteristics and functions of the original design of the certified lower power frequency electric machinery.

### Article 14

The application of low power frequency electric machineries shall not affect the navigation safety nor interfere a legal communication, if an interference is found, the service will be suspended until improvement is made and the interference no longer exists.