

# BUFFALO

## Unpacking and Setup

This section provides unpacking and setup information for the USB Print Server.

## Unpacking

Open the shipping carton of the USB Printer Server and carefully unpack its contents. The carton should contain the following items:

Main unit (LPV3-U2)	1
AC adapter	1
Power cord	1
USB A-to-B cable	1
Ethernet cable	1
Installation CD	1
Manual (this user's guide)	1
Warranty card	1

If any item is found missing or damaged, please contact your local reseller or retailer for replacement.

#### Setup

The setup of the USB Print Server is performed using the following steps:

Connect the USB Print Server into the included AC Adapter power cord, and attach the power cord to a power outlet.



- Connect the included standard patch cable from the USB Print Server to a switch, hub, or router on your network.
- Connect the included USB A-to-B cable to the USB Print Server and the USB Printer. Visually inspect all connections and verify that they are secured.

#### **Software Installation - Windows Based PC's** \*Macintosh Procedure on Page 19\*

This section describes how to properly install and use the USB Print Server configuration software. Please follow the following steps to properly install the software:

- Insert the included CD into a CD-ROM Drive.
- Run the setup.exe program found on the root of the CD. This can be done by browsing to the CD or by going to the 'Start Menu', selecting 'Run...', and typing x:\setup.exe (Where x is the drive letter of the CD-ROM Drive), then press the '**OK**' button.



The Install Shield Wizard for LPV3 Manager will open up. Press the 'Next' button. Press the 'Browse' button if there is a specific location the manager should be installed to. Otherwise press the 'Next' button and accept the default installation location.

Install Shield Wizard
Choose Destination Location
Select folder where Setup will install files.
Setup will install LPV2 Manager in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\BUFFALO\LPV2 Manager Browse
InstallShield
< <u>B</u> ack Next> Cancel

The installation will continue and copy files to their necessary locations. When the installation is complete, press the '*Finish*' button.



Congratulations, the software has been successfully installed.

#### Using the Software

- Launch the software by finding the icon in the Start Menu. Press the 'Start' button, select 'Programs', select 'BUFFALO', select 'LPV3 Manager', and finally press the '*LPV3 Manager*' icon.
- The LPV3 Manager will launch and search for the USB Print Server on the network.

R LPV2 Manager			_ 🗆 ×
File Edit Mew Help			
8 🔺			
LPV2 name	Model name	Mode	
	Searching		
Search for LPV2			

The LPV3 Manager will display the USB Print Servers on the network.

💒 LPV2 Manager			_ 🗆 🗙
<u>F</u> ile <u>E</u> dit <u>M</u> ew <u>H</u> elp			
8 🔺			
LPV2 name	Model name	Mode	
PU-372006	LPV2-USB-TX1	10/100Μ6ρε (US81.1)	
found LPV2			1.

Configure the USB Print Server by double-clicking on the corresponding Print Server. This will open the USB Print Server's properties.

PU-372006 properties ? 🗙
Basic setting Protocol Settings Information Reset
Path: \\PU-372006\PU-372006-P1 Copy
Server Name PU-372005
Password
Port PU-372006-P1 Port1 V
Print setting information at reboot.
OK Cancel

The name of the USB Print Server can be changed by entering a new name in the 'Server Name' field. The Password and Port names can also be changed if desired. Record the name and port for later use.

PU-372006 properties 🛛 🕐 🗙
Basic setting Protocol Settings Information Reset
Path: \\BUFFALO\USBPRINT Copy
Server Name BUFFALO
Password
Port USBPRINT Port1 V
Print setting information at reboot.
OK Cancel

**NOTE**: The '*Password*' option sets a password for the LPV3 Manager and web-based administration tool.

To configure the protocol settings press the '*Protocol Settings*' tab. The protocol options are TCP/IP, AppleTalk, NetBEUI, and SNMP. To configure a protocol, select it and press the '*Properties*' button.

PU-372006 properties	? ×
Basic setting Protocol Settings	Information Reset
Usable Protocol TCP/IP AppleTalk NETREUI SNMP	Add Delete Properties
	OK Cancel

TCP/IP Settings:

TCP/IP propertie:	5		×
IP assignm	en <u>t</u> Autom	atic	
-Automatic se	tting		
Obtain IP	address from DHC	P	
- IP address-			
IP address	192 168	. 7.	205
<u>S</u> ubet Mask	255 255	. 255 .	0
<u>G</u> ateway	192 . 168	. 7	1
Retry interval		2	(0-255)
Retry <u>c</u> ount		254	(0-255)
	ОК	Can	cel

Select the 'Manual Setting' option from the drop-down menu if a specific IP address is desired. Otherwise leave the setting on Automatic. With Automatic used, the device will obtain its IP from a DHCP server. Record the IP address of the printer. When the selection is made, press the 'OK' button.

**NOTE**: If DHCP is used, it is recommended to exit out of the program, reconnect to the Print Server through the Manager and record the new 'discovered' IP address. The IP address will be greyed out like above.

**NOTE**: It is recommended to use IP based printing for newer PC-only networks. If there are Macintoshes or older PC's on the network, then please configure the appropriate AppleTalk and NetBEUI settings.

AppleTalk Settings:

AppleTalk properties	×
AppleTalk <u>Z</u> one	×
Printer object type	LaserWriter
Communication	ASCI
Rendezvous	
Service <u>n</u> ame:	USBPRINT
Location	
	OK Cancel

- If there are Macintosh computers on the network that wish to use the printer, then enter a '*Rendezvous Service Name*' in the field and press the '*OK*' button. This name is the friendly name Mac users will see when installing their printer.
- NetBEUI Settings:

NETBEUI properties	×
Work <u>G</u> roup	WORKGROUP
<u>R</u> esponse time	0
<u>D</u> iscard job	Yes
	Cancel

If the printer is to be accessible via Network Neighborhood in Windows 98 and Windows ME, then enter the proper Work Group name for your Work Group. Once the settings have been set, press the 'OK' button. To view information about the USB Print Server, press the 'Information' tab. This tab will display the current information about the USB Print Server.

Item	Value	<u>R</u> efresh
Server name MAC address IP address	000740372C1 192.168.7.205	Clear
Model name HW version	LPV2-USB-TX	Test print
FW version	1.02 Normal	<u>P</u> rint
Printer status(Port1)	On line	O Port 1
Running time	9sec	O Port 2
		O Port 3
		Fine Undate

To reset the device or to restore the factory default settings, press the '*Reset*' tab.

BUFFALO properties	×
Basic setting     Protocol Settings     Information       Reset     Information     Reset       Image: Set to factory default     Eeset	
OK Cancel	

**Restart**: Reboots the USB Print Server **Set to Factory Default**: Restores the factory default settings.

Once all settings have been changed, press the 'OK' button.

**NOTE**: Future configuration can be done using your web browser. Browse to http://xxx.xxx.xxx (where xxx.xxx.xxx is the configured IP address of the Print Server.)

### Installing the Printer

Windows 2000 & XP \*Macintosh Procedure on Page 19\*

Open the 'Printers and Faxes' folder. To do so, open the 'Control Panel' and then open the 'Printers and Faxes' folder. Double click on the 'Add Printer' icon. This will open the 'Add Printer Wizard'. Press the 'Next' button.



Select 'Local printer attached to this computer'. Also, uncheck the 'Automatically detect and install my Plug and Play printer' check box. Press the 'Next' button when finished.



Select 'Create a new port: Type of port:'. From the pull down list, select 'Standard TCP/IP Port'. Press the 'Next' button.

Select the port you want y	our printer to use. If the port is not listed, you can create a
iew port.	
Use the following port:	LPT1: (Recommended Printer Port)
B	19 A
• Create a new port:	

- ▶ The 'Add Standard TCP/IP Printer Port Wizard' will open. Press the '*Next*' button.
- Enter the IP address of the USB Print Server into the field called 'Printer Name or IP Address:'. The Port Name field will be filled automatically once the IP address is entered.

Add Standard TCP/IP Printer Port Wizard	X			
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.				
Printer Name or IP Address:	192.168.7.205			
Port Name:	IP_192.168.7.205			
	< <u>B</u> ack <u>N</u> ext≻ Cancel			

Please enter the IP address recorded on Page 6. Once complete, press the 'Next' button.

The 'Additional Port Information Required' window will appear. Select 'Standard' device type and select 'Generic Network Card' from the pull down menu. Press the 'Next' button when finished.

kdd Standard TCP/IP P	rinter Port Wizard			X
Additional Port The device of	Information Require could not be identified.	ed		
The detected det 1. The device is p 2. The address of Either correct the previous wizard p	rice is of unknown type, roperly configured, in the previous page is of address and perform ar age or select the device	Be sure that: correct. nother search on the n s type if you are sure t	etwork by returning he address is correc	to the st.
Device Type <u>S</u> tandard <u>C</u> ustom	Generic Network Card			
		< <u>B</u> ack	<u>N</u> ext >	Cancel

- A summary screen will appear. Press the '*Finish*' button to continue setting up your USB Network Printer.
- The 'Install Printer Software' window will appear. Please select the proper printer from the list below, or refer to the printer manufacturer's driver location. Once the proper printer driver has been selected, press the '**Next**' button.

Add Printer Wizard
Install Printer Software The manufacturer and model determine which printer software to use.
Select the manufacturer and node of your printer. If your printer came with an installation disk, click Have Disk. If you printer is not lated, consult your printer documentation for compatible printer software.
Manufacturer     Printers       GCC     Generic       Generic     GHP Desklard 950C/952C/953C       Gesterber     GHP Desklard 950C       HeweltPackard     GHP Desklard 957C       BHP Desklard 957C     GHP Desklard 957C       BHP Desklard 957C     GHP Desklard 957C       BH D Desklard 957C     GHP Desklard 957C       GH D Desklard 957C     GHP Desklard 957C       BH D Desklard 957C     GHP Desklard 957C
< <u>Back Next</u> > Cancel

NOTE: Press the 'Have Disk' button to install drivers from a CD-ROM or Floppy disk. The 'Name Your Printer' window will appear. Enter an appropriate name or leave the default 'Printer name' if desired. Also, select if the printer is to be the default printer or not. Press the '*Next*' button when complete.

Add Printer Wizard	
Name Your Printer You must assign a name to this printer.	Ŷ
Type a name for this printer. Because some programs d name combinations of more than 31 characters, it is bes possible.	o not support printer and server at to keep the name as short as
Printer name: HP Desklet 9500/95920/9593 Do you want to use this printer as the default printer?	
⊙ Yes	
⊙ Ng	
< <u>B</u> ack	Cancel

- ▶ The 'Printer Sharing' window will appear. Select 'Do not share this printer' and click the 'Next' button.
- The 'Print Test Page' window will appear. Select 'Yes' to print a test page. Press the 'Next' button when finished.

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?
O Ng
< <u>₿</u> ack <u>N</u> ext > Cancel

The 'Add Print Wizard' is now complete. Press the '*Finish*' button. Congratulations, your USB Network Printer has been installed. Windows 98 & ME

- Open the 'Printers' folder. To do so, open the 'Control Panel' and then open the 'Printers' folder. Double click on the 'Add Printer' icon. This will open the 'Add Printer Wizard'. Press the 'Next' button.
- You will be prompted to select the type of printer to be installed. Select 'Network printer' and press the 'Next' button.



A prompt for the '*Network path or queue name*' will appear. Press the '*Browse*' button.



**NOTE:** You can enter the printer's path if you wish. The format should be \\PrintServer\PortName (where PrintServer and PortName are the same as set on *Page 5*. Press the '**Next**' button when finished.

▶ The 'Browse' dialog window will appear. Browse for the appropriate printer, select it, and press the '*OK*' button.

Browse for Printer  Select the network printer that you want to add Note: Printers are usually attached to computers.
□       ●
OK Cancel

**NOTE**: If an error is displayed while browsing for the printer, then there is a network problem, or a problem with the 'PortName' set on *Page 5*. To remedy the problem, reset the Print Server to factory defaults by following the instructions on *Page 8*. Then restart the configuration from *Page 4*. If you still have problems, contact our 24/7 customer support at 1-(866) 752-6210.

The 'Driver Selection' window will appear. Select the correct driver from the supplied list, or press the 'Have Disk' button to select a driver supplied by the printer manufacturer. Once the proper driver has been selected, press the 'Next' button.

Add Printer Wizard					
Click 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 a compatible printer.					
Manufac	urers:	E	Printers:		
Hermes Hewlett HP IBM Kodak Kyocera LaserMa	Packard aster		hp deskjet 6127 senes		
			Have Disk		
			<back next=""> Cancel</back>		

The 'Printer Name' window will appear. Enter an appropriate name for the printer and press the '*Finish*' button.

America	You can type a name for this printer, or you can use the name supplied below. When you are ready, click Finish to install the printer and add it to the Printers folder.
	Diritler name: 20 destates 127 entres Your Windows-based programs will use this printer as the default printer.
	<back cancel<="" finish="" td=""></back>

The USB Network Printer is now installed. A test print can verify that the printer is installed correctly. Find the printer in the Printer's folder, right click on its icon and select '*Properties*'.



The 'Printer Properties' window will appear. Press the 'Print Test Page' button to print a test page. If the test page prints, then your printer is setup properly.

deskjet 6127 se	rries Properties		2)
General Details	Color Management	Setup   Features   Color   Services	
🏈 hp desi	ijet 6127 series		
Comment	Print Server Deskjet		
	(sose)	Rimero.	
	Protected (		
		Print Test Page	
		OK Cancel	Apply: H((p

## Internet Printing Protocol (IPP)

*Internet Printing Protocol (IPP)* allows a computer in a remote location to print to an installed printer at a home or office over the internet. Practical applications would include printing to a work printer from home, printing to a work printer on a business trip, etc.

- IPP requires a full time internet connection at the location where the printer is installed.
- Port 631 is the default port for IPP. The router on the network needs to pass port 631 through to the local IP address of the USB Print Server. Please see the documentation for the router to setup port forwarding properly.
- The 'Port' name from *Page 5* will be needed.

Please follow the following steps to properly setup IPP:

Windows 2000 & XP

Open the 'Printers and Faxes' folder. To do so, open the 'Control Panel' and then open the 'Printers and Faxes' folder. Double click on the 'Add Printer' icon. This will open the 'Add Printer Wizard'. Click the 'Next' button.



*NOTE:* Internet Printing Protocol (IPP) is *NOT* supported in Windows 98 or Windows ME due to a lack of TCP/IP printing support.

Select 'A network printer, or a printer attached to another computer'. Press the 'Next' button.

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

Select 'Connect to a printer on the Internet or on a home or office network:'. In the 'URL' field, enter: http://IP\_ADDRESS:631/PORTNAME (using the 'Port' name from Page 5). Once complete, press the 'Next' button.

**NOTE**: The IP address inputted needs to be your external/Internet IP address, **NOT** the internal IP address. Consult your router documentation or ISP information to determine this IP address.

Add Printer Wizard	
Specify a Printer If you don't know the name or address of the printer, you can search for a printer that meets your needs.	, ,
What printer do you want to connect to?	
O Browse for a printer	
<ul> <li>Connect to this printer (or to browse for a printer, select this option and click Next):</li> </ul>	
Name:	
Example: \\server\printer	
<ul> <li>Connect to a printer on the Internet or on a home or office network:</li> </ul>	
URL: http://209.164.30.22:631/UsbPrinter	
Example: http://server/printers/myprinter/.printer	
< <u>B</u> ack <u>N</u> ext> Cancel	

The 'Install Printer Software' window will appear. Please select the proper printer from the list below, or refer to the printer manufacturer's driver location. Once the proper printer driver has been selected, press the 'Next' button.

Add Printer Wizard	
Install Printer Software The manufacturer and model determine	which printer software to use.
Select the manufacturer and model o disk, click Have Disk. If your printer is compatible printer software.	f your printer. If your printer came with an installation s not listed, consult your printer documentation for
Manufacturer         Printers           GCC         Generatic         HP           Generatic         HP         HP           Hewlett Packard         HP         HP           HD         This driver is digitally signed         HP	Desklet 550C/555C Desklet 557C Desklet 557C Desklet 557C Desklet 557C Desklet 557C Windows Update Have Disk
Tell me why driver signing is important	<back next=""> Cancel</back>

**NOTE**: Press the '**Have Disk**' button to install drivers from a CD-ROM or Floppy disk.

The 'Default Printer' window will appear. Select if the printer is to be the default printer or not. Press the 'Next' button when complete.

Add Printer Wizard	
Default Printer Your computer will always send documents to the default printer unless you specify otherwise.	Ŷ
Do you want to use this printer as the default printer?	
O Yes	
• Ng	
< <u>Back</u> Next≻ Can	cel

- The 'Add Print Wizard' is now complete. Press the '*Finish*' button. Congratulations, your IPP USB Network Printer has been installed.
- The printer will now be available in your 'Printers and Faxes' folder. You can print a test page by going to the printer's properties and pressing the '*Print Test Page*' button.

## Macintosh Setup

#### Print Server Configuration

It is recommended that you connect the print server directly to your Apple computer using a cross over Ethernet Cable or connect the Apple computer and the print server to a hub or switch, to perform the initial configuration. The print server will attempt to obtain an IP address from a DHCP server if one is available, otherwise the print server will default to an IP address of **192.168.11.222**. If a DHCP server is available you will have to check the server's logs to determine which IP address the print server received.

Open the 'System Preferences' from the Apple menu and select 'Network'. Set 'Show' to 'Buit-in Ethernet'. Record the current settings; they will be needed later. Set 'Configure' to 'Manually'. Enter 198.168.11.223 into the 'IP Address' field. Enter 255.255.255.0 into the 'Subnet Mask' field. Press the 'Apply Now' button when finished.



Open a Web Browser (Version 4.5 or later) and enter 192.168.11.222 into the 'Address' field. Press the Enter or Return key to continue.

000				() Appl	е				$\bigcirc$
		X	3	俞	1		, <u>e</u> ,	$\sim$	
Back	Forward	Stop	Refresh	Home	1	AutoFill	Print	Mail	8.00
Address:	http://     http://	/192.168.1	1.222						⇒ go

The 'Server Status' page of the USB Print Server will open. Press the 'Settings' link to continue setting the Print Server up.

The Basic Settings menu will appear. Enter an acceptable Print Server Name. This can be left as default if desired. The Web-based Configuration system can be password protected by entering and verifying a new password. Press the 'Set' button when configuration is complete. A message will appear stating that the print server is rebooting. You will be prompted to login using the new password.

	Connect USB Printer with Print Ser LPV3-U2-V	rver US	
▶ <u>TOP Page</u>	<b>Basic Settings</b>		
▼ <u>Settings</u> — <mark>Basic Settings</mark>	Printer Server Name 🇷	PU-3D3085	
- <u>Network Settings</u> - <u>SNMP Settings</u>	Administrator User Name 🧷	root(can not be changed)	
▶ <u>Management</u>	Administrator Password <u>/</u> ?	(confirm)	
		Set	

Click on the 'Network Settings' link. Enter a fixed IP address or set the bullet to 'Obtain an IP address automatically'. This will be the IP address used for PC-Based printing and for configuration. Store the IP address in a safe place in case you need to access the configuration options again. Press the 'Set' button when configuration is complete. A message will appear stating that the print server is rebooting.

<u>ROP Page</u> Settings Basic Settings Settory Settings SIMP Settings Management	Network Settings	Network Settings					
	IP Address 🍠	<ul> <li>Obtain an IP Address Automatically</li> <li>Manual Setting         IP Address: 192.168.11.60         Subnet Mask: 255.255.05         Default Gateway: 192.168.7.1     </li> </ul>					
	Rendezvous 🧷	⊙Enable ○Disable					
	IPP port Number 🇷	631					
	NETBEUI	NETBEUI					
	Work Group 🧷	WORKGROUP					
	AppleTalk						
	AppleTalkZone 🗷	*					
		Printer Name (Port Name)	P1				
	Printer-Side Settings	Printer Object Type	LaserWriter				
	<u>_</u> ?	PostScript Level	Level 2 💌				
		Font Group	Standard 35 💌				
		Set					

Rendezvous is enabled by default so if you are using this service in your network, the server will be discovered.

If used, enter AppleTalk info, otherwise leave in default condition. After entering your settings, press the 'Set' button.

For further information please click on the '?' icon next to the area in question.

Restore the TCP/IP settings. Open your 'System Preferences' and select 'Network'. Set 'Show' to 'Buit-in Ethernet'. Restore the settings that were recorded previously. Use the 'Using DHCP' option from the pull down menu if the IP address is to be automatically assigned. Otherwise, enter the proper static IP address information. Press the 'Apply Now' button when configuration is complete.

	startup bisk		
Location: Au	tomatic	\$	
Show: Bu	ilt-in Ethernet	\$	
TCP/IP PPPoE	AppleTalk Pro	xies Ethernet	
IPv4: Using DHC	P	•	
deneral		(Banany Di	COLONA
ness.		C Kenew Dr	ICF Lease
Mask:	DHCPC	(If required	d)
outer:			
rvers:			(Optional)
nains:			(Optional)
iums.			(optional)
iress:			
	Location: Au Show: Bu TCP/IP PPPOE IPV4: Using DHC dress: Mask: outer: rvers:	Location: Automatic Show: Built-in Ethernet TCP/IP: PPPOE AppleTalk Pro JIP4: Using DHCP dress: Mask: DHCP C outer: rvers:	Location: Automatic  Show: Built-in Ethernet  TCP/IP PPPOE AppleTalk Proxies Ethernet  IPA+ Using DHCP  aress: Renew DH Area State S

Installing the Printer on your Macintosh

Open the 'System Preferences' from the Apple menu and select 'Print & Fax'. The 'Print & Fax' window will appear. Press the 'Set Up Printers...' button.



The 'Printer List' will appear. A dialog box may appear stating "You have no printer available." In this case press the 'Add' button. Otherwise press the 'Add' button from the graphical menu.

<u> </u>	4		R-B	S	•		
Ë	-	0	1	A			
Make Default	Add	Delete	Utility	ColorSync	Show Info		
In Menu Name			A Statu	IS	Kind	Host	

A list of available printers will appear. In that list should appear the Rendezvous name set on *Page 7* or *Page 21*. Highlight the correct printer.

	Rendezvous	÷
Name		*
psc 2500 USBPRINT	series (0001E692EA4C)	
rinter Mo	del: Generic	

Press the 'Printer Model' pull down menu and select the proper hardware driver for the printer. The printer's CD-ROM may be needed to install the proper drivers if they're not already supplied. In this case, select the 'Other...' option and provide the location of the proper driver file. Once the driver has been selected, press the 'Add' button.

	Rendezvous *
Name	<b>A</b>
psc 2500 series	(0001E692EA4C)
USBPRINT	
Location:	Auto Select
Printer Model:	✓ Generic
	Other
	(Cancel) (Add
	Apple
	Brother
	ESP
	ESP HP
	ESP HP Lexmark
	ESP HP Lexmark
	ESP HP Lexmark Tektronix

Congratulations, the printer has been installed. The '*Printer List*' will now list the installed network printer. This window can be closed. You can now print to that printer.



# **Technical Specifications**

LAN Standards:	IEEE 802.3u 100BASE-TX; IEEE 802.3 10BASE-T
Transmission Types:	100Mbps/10 Mbps; 100BASE-TX 4B/5B, MLT-3; 10BASE-T Manchester Coding
Access Media:	CSMA/CD
Media Interface:	RJ-45
USB Standard:	USB1.1, USB2.0
USB Connector:	USB A Connector (1)
Network Protocols:	NetBEUI; TCP/IP; Apple Talk; SNMP
Electric Current:	5.0V
Power Consumption:	500mA
Dimensions:	3.7 x 1.1 x 2.6 in. (92 x 28 x 52 mm.)
Weight:	3.2 oz. (90 g.)
Operating Temperature:	0-40 C; 20-80% non-condensing

# **Technical Support**

Buffalo Technology offers toll-free technical support 24 hours a day, 7 days a week for this product. Customers in the United States and Canada can obtain technical support using the following information:

Web:	www.buffalotech.com
E-mail:	info@buffalotech.com
Telephone:	866-752-6210 (USA & Canada only)

#### FCC Warning

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.