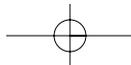
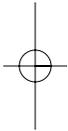




**USB Parallel
Printer Adapter
for Mac
User Manual**

P73177-A

F5U002-MAC



Introduction

To ensure the best operation and experience with this product, please read this manual thoroughly and follow the procedures to prevent any damage to the Belkin USB Parallel Printer Adapter and/or to the connected devices.

The Belkin USB Parallel Printer Adapter will allow any USB-equipped Mac® (running OS 8.6 through OS 9.x) to print to most parallel Ink Jet or LaserJet printers (refer to compatibility list for details). Simply plug the USB connector into the computer's USB port and the Centronics connector into the printer. The Belkin USB Parallel Printer Adapter is ideal for use with Macintosh computers which do not come equipped with traditional parallel and serial ports but rather come equipped with USB ports. These new computers are referred to as "Legacy-Free". This Belkin product will allow you to continue using your traditional printer with your Legacy-Free Mac. Belkin provides a full line of USB adapter solutions for Legacy-Free PCs and Macs. For the latest in USB technology, visit belkin.com.

The Belkin USB Parallel Printer Adapter is supported by a lifetime warranty and free technical support should you have questions regarding installation or use of the product.

Features

Features

- Connect your existing parallel printer to your Mac
- Background printing lets you print while you work on other tasks
- Convenient printing options including even/odd pages printing, front-to-back and back-to front printing and cover page/header printing
- Brightness and dithering adjustments ensure control over the sharpness of your image printing. (Dithering adjustment available for Ink Jet only)
- Allows connection of multiple printers (additional USB to Printer adapter required)
- Supports most IEEE 1284-compliant Ink Jet and LaserJet printers
- Supports most PCL level 3 Ink Jet printers
- Supports most PCL level 4 LaserJet printers

Hardware Requirements

- Apple® Macintosh® computers with USB ports built-in. This includes G3, iMac™, G4, G4 Cube, G3 PowerBook®, G4 PowerBook and iBook™ computers
- 32MB of RAM
- One free USB port

Features

Ink Jet Printer Driver Compatibility

- Supports most PCL level 3 DeskJet printers (or printers with PCL level 3 DeskJet emulation), provided that the printers are IEEE 1284-compliant and capable of communicating a Device ID via the printer's parallel port. If the compatibility list does not list your printer, check with your printer manufacturer to determine if your printer broadcasts a Device ID via the printer's parallel port. This driver is capable of printing up to a maximum resolution of 600dpi, provided the printer supports a resolution that high.

LaserJet Printer Driver Compatibility

- Supports most PCL level 4 LaserJet printers (or printers with PCL level 4 LaserJet emulation), provided that the printers are IEEE 1284-compliant and capable of communicating a Device ID via the printer's parallel port. If the compatibility list does not list your printer, check with your printer manufacturer to determine if your printer broadcasts a device ID via the printer's parallel port. This driver is capable of printing up to a maximum resolution of 600dpi, provided the printer supports a resolution that high. Laser printers must have at least 1.5MB of available RAM in order to print at 600dpi.

Operating System Requirements

- OS 8.6 through OS 9.x with USB support

Features

Recommendations

- If you need more USB ports on your computer, Belkin manufactures a variety of 4-port and 7-port USB hubs that will allow you to expand your USB capabilities. Each 4-port or 7-port hub will expand 1 port on your computer to 4 ports or 7 ports.
- If you are using this device with a USB hub, the hub must be self-powered (powered from the wall socket). If you encounter an error with your hub stating that there is not enough power to run this device, please be sure that the hub is self-powered. All Belkin USB hubs can be configured for self-power mode and include an AC wall outlet adapter for this purpose.

Package Contents

- Belkin USB Parallel Printer Adapter
- Installation CD-ROM
- This User Guide

Parallel Printer Adapter Installation

Installation Overview

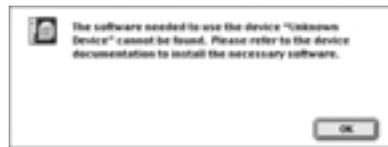
Installation of the Belkin USB Parallel Printer Adapter involves just a few easy steps.

1. Hardware Installation.
2. Installing the Software.
3. Selecting your Printer.

Follow the directions that are specific to your operating system. An uninstall procedure is also included in this manual if you need to completely remove the device from your system.

Hardware Installation

1. Make sure your printer is turned off. Connect the Belkin Parallel Printer Adapter to the parallel port on your printer. Turn your printer on.
2. Connect the included USB cable to the Belkin Parallel Printer Adapter.
3. Connect the USB connector to a free USB port on your computer or USB hub. (Note: If connecting to a hub, the hub must be powered from the wall socket.)
4. You will see the following message after connecting the adapter:



5. Click **Cancel**. Now move on to the Software Installation Section to install the software. After installing the software, the adapter will be configured automatically.

Parallel Printer Adapter Installation

Software Installation

1. Make sure all applications are closed. Insert the Belkin USB Parallel Printer Adapter CD into the CD-ROM drive, and open the CD after the icon appears on the desktop.
2. Double-click on the LaserJet Print Driver Installer if you have a laser printer or double-click on the Ink Jet Print Driver Installer if you have an Ink Jet Printer. You can install both drivers if you wish.
3. Read the End User License Agreement. If you agree, click **Accept** to continue to install the software. If you do not accept, the installation will not continue.
4. After accepting the agreement, the print driver installer window will open. In the drop down box **Easy Install** is selected. This option will install the printer driver and the Background Printing Software. Select **Install** to install the software.
5. A warning window will appear reminding you that no other applications can be running during this installation. Make sure all other applications are closed and click **Continue**.
6. A window will appear telling you that the installation was successful. You must restart your computer. Click **Restart**.
7. When your computer restarts, the drivers are finished installing. Go to the next section to learn how to select your printer.

Parallel Printer Adapter Installation

Selecting Your Printer

1. Click on the Apple menu and select **Chooser**.
2. In the Chooser window, select the appropriate Belkin driver icon (i.e., LaserJet driver for laser printers or Ink Jet driver for Ink Jet printers).
3. Under **Select a USB printer**, select your printer.



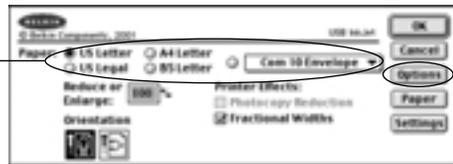
4. It is recommended that you leave the Background Printing **On**, however if you need to turn it off, you may do so.
5. When you have chosen the settings you want, close the window.
6. Now your printer is selected. You can print from any application that supports printing by selecting **File** then **Print**. For more details on printing go to the next section.

The Ink Jet Page Setup Menu

Click **File** then select **Page Setup**.

Selecting Paper/Envelope Size:

Select the paper size you want by clicking on the radio button next to the desired paper/envelope size. When you have selected the paper/envelope size you want, click **OK**. To print, click **File** then select **Print** and click the **Print** button.



Flip Horizontal: Prints a mirror image.

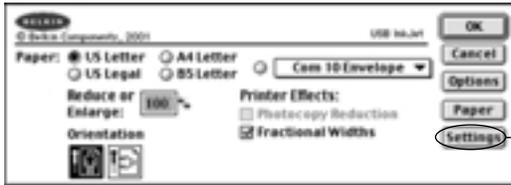
Flip Vertical: Prints upside-down mirror image.

Invert image: Changes black to white and white to black.



Precision Bitmap Alignment: Canon printers only. Allows for sharper printing of graphics and fonts. Not needed when printing TrueType fonts.

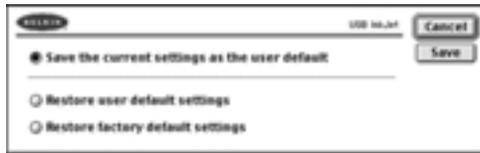
The Ink Jet Page Setup Menu



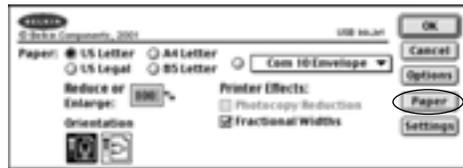
Save the current settings.....After making your selections in the Page Setup menu, you can save them for future use by selecting this option. These become your user default settings.

Restore user default settings: Select this to restore your settings if you made changes.

Restore factory default settings: Select this to restore the factory settings.

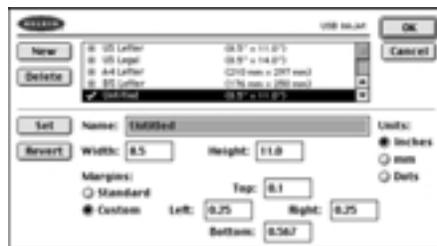


The Ink Jet Page Setup Menu



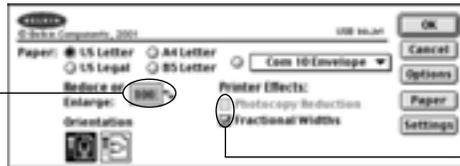
Setting Custom Paper Size:

Click on **New** and enter the width and height of the paper you wish to use. You can also customize the margins by selecting the radio button next to **Custom** and entering your margin values. When you are finished, click **Set**. Your custom paper size will appear in the paper size list. Make sure your custom paper size is selected and click **OK** to use the paper size. To print, Click **File** then select **Print** and click the **Print** button.



The Ink Jet Page Setup Menu

Reduce or Enlarge the Printed Document: To reduce the size of the print enter a number less than 100 in the % box. To enlarge the print, enter a number greater than 100 in the % box.



Select the document print orientation:

For "portrait" select the icon with the head up orientation.
For "landscape" orientation, select the sideways icon.

Printer Effects:

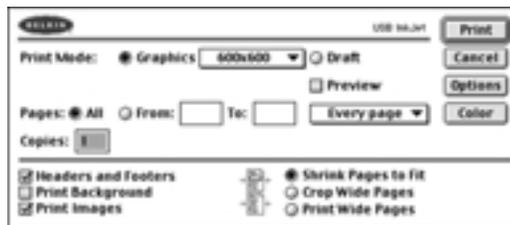
Photocopy Reduction: When selected, will center the document on the page when reduced.



Fractional Widths: Helps your computer determine proper spacing of words. It is recommended that you leave this option ON.

The Ink Jet Printing Menu

Select **File** then **Print** to get to the Print Menu.



Print Menu

Print Button: Press this button to print.

Print Mode: With **Graphics** selected, you can choose the resolution you wish to print in. The maximum resolution you can print depends on the maximum resolution of your printer.

Draft: Select this to print a low resolution copy of your document.

Preview: Select this to see a preview of your document on the computer screen before it prints.

Pages: Select **All** to print all pages.

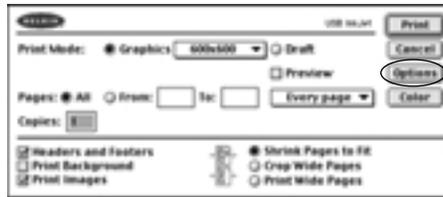
If you wish to print only a portion of your document, select the radio button next to **From** and enter the range of pages you want printed starting with the first and ending with the last.

Every Page: Prints every page.

Even Pages: Prints even numbered pages only.

Odd Pages: Prints odd numbered pages only.

The Ink Jet Printing Menu



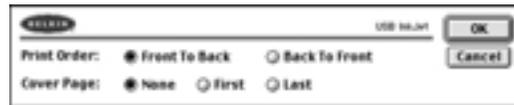
Printer Options Sub-Menu

Headers and Footers: Select to print headers and footers.

Print Background: Select to print background graphics in your document.

Print Images: Select to print images in your document.

Shrink Pages to Fit: Scales the document printing to fit to the page.



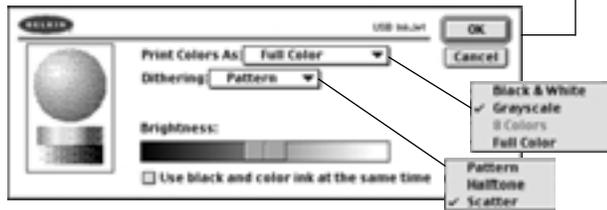
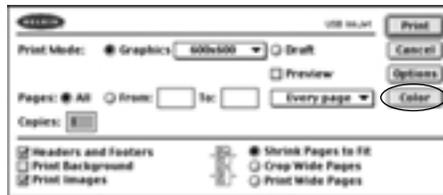
Printer Options Menu

Front to Back: Select this to print from the first to last page.

Back to Front: Select this to print from the last page to the first page.

Cover Page: Select **First** to print a cover page before printing begins. Select **Last** to print a cover page after printing is ended. Select **None** for no cover page to be printed.

The Ink Jet Printing Menu



Color Menu

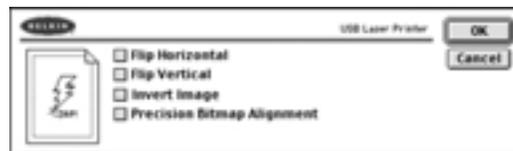
- Color:** Clicking on the drop-down bar next to **Print Colors As** allows you to select how colors will be printed. Note: If your printer cannot print in color, then selecting grayscale will produce the best output by printing colors in shades of grey.
- Dithering:** Clicking on the drop-down bar next to **Dithering** to select the type of dithering you want. An example of the dithering style will be displayed in the right of the window.
- Brightness:** Use this slider to make the printing of images lighter or darker.

LaserJet Page Setup



Selecting Paper/Envelope Size:

Select the paper size you want by clicking on the radio button next to the desired paper/envelope size. When you have selected the paper/envelope size you want, click **OK**. To print, Click **File** then select **Print** and click the **Print** button.

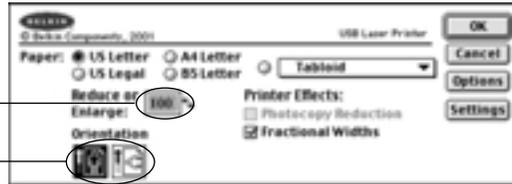


- | | |
|-----------------------------|---|
| Flip Horizontal: | Prints a mirror image. |
| Flip Vertical: | Prints upside-down mirror image. |
| Invert image: | Changes black to white and white to black. |
| Precision Bitmap Alignment: | Canon® printers only. Allows for sharper printing of graphics and fonts. Not needed when printing TrueType fonts. |

LaserJet Page Setup

Reduce or Enlarge the Printed Document:

To reduce the size of the print enter a number less than 100 in the % box. To enlarge the print, enter a number greater than 100 in the % box.



Select the Document Print Orientation:

For portrait select the icon with the head up orientation. For landscape orientation, select the sideways icon.

Printer Effects:

Photocopy Reduction: When selected, will center the document on the page when reduced.



Fractional Widths: Helps your computer determine proper spacing of words. It is recommended that you leave this option ON.

LaserJet Print Menu

Print Menu

Print Button: Press this button to print.

Print Mode: With **Graphics** selected, you can choose the resolution you wish to print in. The maximum resolution you can print depends on the maximum resolution of your printer.

Draft: Select this to print a low resolution copy of your document.

Preview: Select this to see a preview of your document on the computer screen before it prints.

Pages: Select **All** to print all pages.

If you wish to print only a portion of your document, select the radio button next to **From** and enter the range of pages you want printed starting with the first and ending with the last.

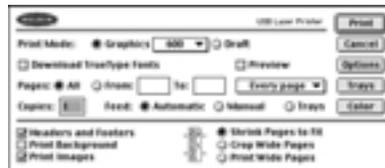
Every Page: Prints every page.

Even Pages: Prints even numbered pages only.

Odd Pages: Prints odd numbered pages only.

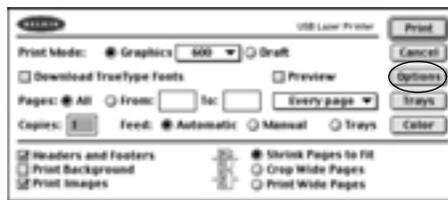
Printer Options Sub-Menu

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LaserJet Print Menu

- Print Background: Select to print background graphics in your document.
- Print Images: Select to print images in your document.
- Shrink Pages to Fit: Scales the document printing to fit to the page.

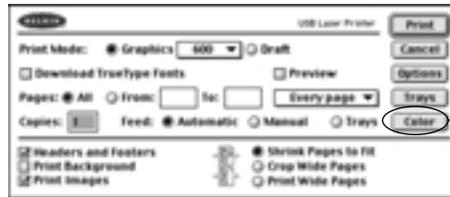


Printer Options Menu

- Front to Back: Select this to print from the first to last page.
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- Cover Page: Select **First** to print a cover page before printing begins. Select **Last** to print a cover page after printing is ended. Select **None** for no cover page to be printed.



LaserJet Print Menu



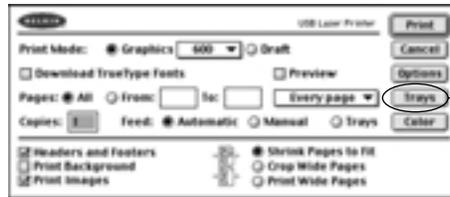
Color Menu

Color: Clicking on the drop-down bar next to **Print Colors As** allows you to select how colors will be printed. Selecting grayscale will produce the best output of images by printing colors in shades of grey. This driver does not support color printing on color laser printers.

Brightness: Use this slider to make the printing of images lighter or darker.



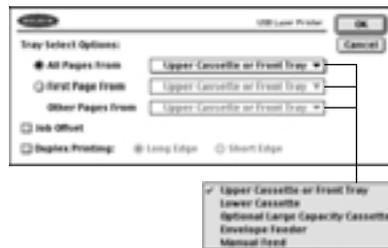
LaserJet Print Menu



Color Menu

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Brightness: Use this slider to make the printing of images lighter or darker.



Information

FCC Statement

DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Belkin Components, of 501 West Walnut Street, Compton CA 90220,
declare under our sole responsibility that the product:
F5U002-MAC

to which this declaration relates:

Complies with Part 15 of the FCC Rules. Operation is subject to the following
two conditions: (1) this device may not cause harmful interference, and (2) this
device must accept any interference received, including interference that may
cause undesired operation.

CE Declaration of Conformity

We, Belkin Components, declare under our sole responsibility that the F5U002-MAC, to
which this declaration relates, is in conformity with Generic Emissions Standard EN50081-1
and with Generic Immunity Standard EN50082-1 1992.

Belkin Components Limited Lifetime Product Warranty

Belkin Components warrants this product against defects in materials and workmanship for
its lifetime. If a defect is discovered, Belkin will, at its option, repair or replace the product at
no charge provided it is returned during the warranty period, with transportation charges
prepaid, to the authorized Belkin dealer from whom you purchased the product. Proof of
purchase may be required.

This warranty does not apply if the product has been damaged by accident, abuse, misuse,
or misapplication; if the product has been modified without the written permission of Belkin;
or if any Belkin serial number has been removed or defaced.

THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE IN LIEU OF ALL OTHERS,
WHETHER ORAL OR WRITTEN, EXPRESSED OR IMPLIED. BELKIN SPECIFICALLY DISCLAIMS
ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

No Belkin dealer, agent, or employee is authorized to make any modification, extension, or
addition to this warranty.

BELKIN IS NOT RESPONSIBLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL
DAMAGES RESULTING FROM ANY BREACH OF WARRANTY, OR UNDER ANY OTHER
LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOST PROFITS, DOWNTIME,
GOODWILL, DAMAGE TO OR REPROGRAMMING, OR REPRODUCING ANY PROGRAM
OR DATA STORED IN OR USED WITH BELKIN PRODUCTS.

Some states do not allow the exclusion or limitation of incidental or consequential damages
or exclusions of implied warranties, so the above limitations of exclusions may not apply to
you. This warranty gives you specific legal rights, and you may also have other rights that
vary from state to state.



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