

# DATECS PP-50

## PDA Printer

### User's Manual



PRINT YOUR PALM DATA  
**ON THE MOVE**



 **DATECS**

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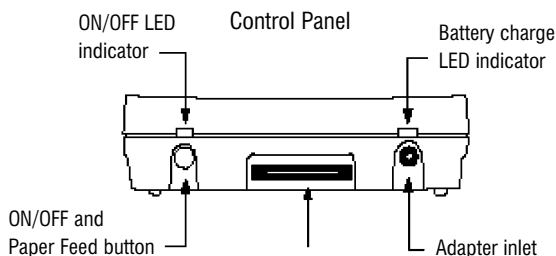
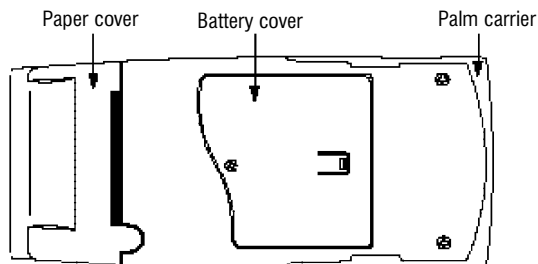
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## Technical Data

Printing method	Line thermal dot printing
Printing speed	up to 50 mm per second
Dot density	8 dot/mm, 203 dpi - Horizontal and Vertical
Resident fonts	A-12x24      B-9x16
Loadable fonts	C-12x24      D-9x16
Loadable Logo	Size: 384 x 240  1 Black & White BMP format ( 1bit per pixel)
Printing columns	Font A/C - 32 columns/line  Font B/D - 42 columns/line
Serial Communications	Default: 57600, N , 8, 1  (Baud, Parity, Data Bits, Stop Bit) Xon/Xoff Protocol
Power supply	Rechargeable battery pack, 7.2V @1.3, 1.5 or 1.8 Ah  Battery capacity: ~ 4 Rolls (Alpha-numeric data)  AC/DC adapter 12V @ 1.2A
Environment	Operating temp. 0°C- 45°C @ 10-90 % RH  Storage temp. -25°C - 70°C @ 10 - 90 % RH
Reliability	50 Million pulses / 50km
Dimensions	L-195mm, H-50mm, W-87mm  Weight - 420 grams with battery and paper roll
Thermal paper	Roll 57 mm wide, 40 mm Ø (~ 80 feet)

## Components


PP-50 Overall View



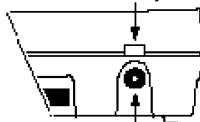
### Battery recharge

**NOTE:** With a fully charged battery, PP-50 can print out more than 5000 inches of alphanumeric data.

Prolonged periods of storage can cause a drop in the power of the printer's rechargeable battery!

+12V/1.2A 

Use AC adapter supplied with the printer. The light indicator of the new PP-50 is a blinking red during recharge and a permanent red when the battery is fully charged.



## Overview

The DATECS PP-50 portable thermal printer is designed specifically for use with the world's most popular palm-size computers. The following is a list of devices that the PP-50 currently supports.

Compatible products:

<b>PalmOS*</b>	Please see the attached data sheet for current models or visit: <a href="http://www.datecs.bg">http://www.datecs.bg</a>
<b>PocketPC*</b>	Please see the attached data sheet for current models or visit: <a href="http://www.datecs.bg">http://www.datecs.bg</a>
<b>BlackBerry*</b>	Please see the attached data sheet for current models or visit: <a href="http://www.ipcprint.com">http://www.ipcprint.com</a>

*\* - Some models are exclusively distributed by Infinite Peripherals - <http://www.ipcprint.com>*

The PP-50 can be used in a variety of applications where hardcopy printouts are required.

End Users -	to print data from standard palm applications - Date Book, Address, To Do and Memo, as well as freely resizable screen images generated by any PALM OS application.
Manufacturers -	for shipping, receiving goods, date and time printing, inventory control and W.I.P. management.
Distributors -	for marking prices, sales receipts, shelf labeling, route deliveries, pallets and packages labeling and portable POS.

The PP-50 can also serve as a Hot Sync cradle for all palm devices and a recharge station for those with rechargeable batteries.

A printing software package is supplied with the PP-50 containing the following five programs that provides printing and configuration access to PP-50 users.

Software Package:	DATECS	Print Manager
	"	"
	"	Font Manager
	"	"
	"	Palm Print Emulator
	"	"
	"	Screen Pad
	"	"
	"	Screen Print
	"	"
	"	Logo Manager

## Loading Paper

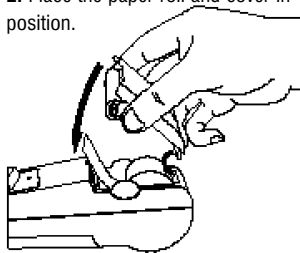
The PP-50 uses a drop-and-load design, making paper loading easy and trouble free. To load the paper, simply remove the paper cover and drop in the new roll as shown in the steps below.

Make sure that the paper is placed in the printer as shown in step 2 below.

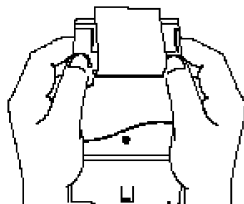
1. Open paper cover holder with both fingers and remove the remaining part of the old paper roll.



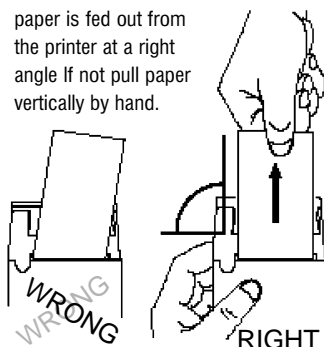
2. Place the paper roll and cover in position.



3. Press with both fingers to click cover of shell in place.



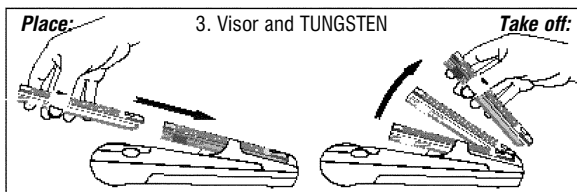
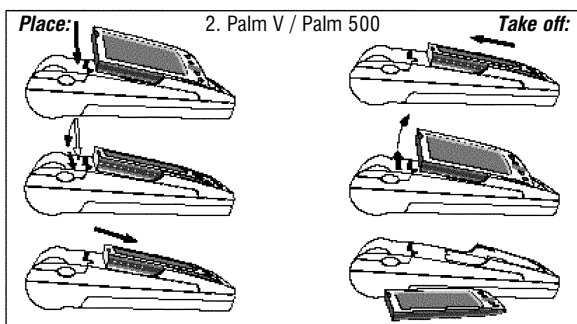
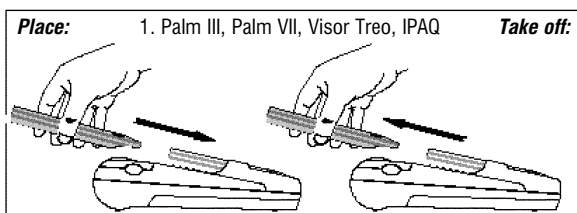
4. Make sure that the paper is fed out from the printer at a right angle. If not pull paper vertically by hand.



## Attaching PDAs

The PP-50 is designed to be used with the most palm devices.

The figures below show how to attach each of the different devices. Find the figure that matches the model you have.



## Installing PP-50 Software

The PP-50 comes with a software package used for printing data from applications running on your handheld device. The software can be found on the floppy disc or CD that is supplied with the PP-50 or downloaded from <http://www.datecs.bg>

There are (5) programs that need to be installed on your handheld and (1) program that needs to be installed on your PC.

The following is a description of these files and the file names:

File Name	Description	Where to Load
DatcsPrint.prc	Print Manager	PDA
PalmPrintEmulator.prc	PalmPrint Emulator	PDA
FontManager.prc	Font & Logo Manager	PDA
FontManager.exe	FontManager for Windows	PC
ScreenPrint.prc	Screen Printing options	PDA
ScreenPad.prc	Drawing application	PDA
LogoManager.exe	Graphics conversion program	PC

Installing the files on to your PDA device requires using Hot Sync and the Install Tool program that is supplied with your PDA.

### Installing \*.prc files:

To load the \*.prc files, simply start the [Install Tool] program and add the \*.prc files you want to load. The files will be loaded during your next Hot Sync session. "Refer to your PDA manual for details on installing applications onto your device".

### Installing \*.exe files:

To load the \*.exe files, simply create a new directory on your PC and copy the file into the new directory using Windows File Explorer.



## Verify Printer Connected

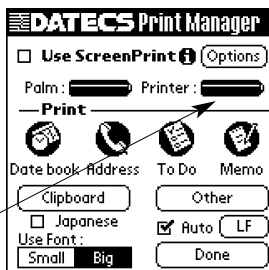
After installing the software package on to your PDA, do a quick check to determine if the printer is charged and the PDA is securely in the PP-50 cradle.

The following will help you to determine these conditions.

Case#1: Open the Print Manager so that the screen on the right is displayed.

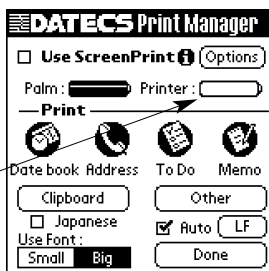
Note that the [Palm] battery option indicates a FULL charge which means the PDA is OK.

The same is true for the [Printer] option. The PP-50 was detected and is ready for printing.



Case#2: Open the Print Manager so that the screen on the right is displayed.

Note that the [Printer] battery option indicates a LOW charge which means the PDA is not securely in the PP-50's cradle or the PP-50's battery needs to be charged.



Note: If the battery has been charged initially and PP-50 connectivity has been verified as in case #2, refer back to section "Attaching PDAs" to make sure the PDA has been attached correctly.

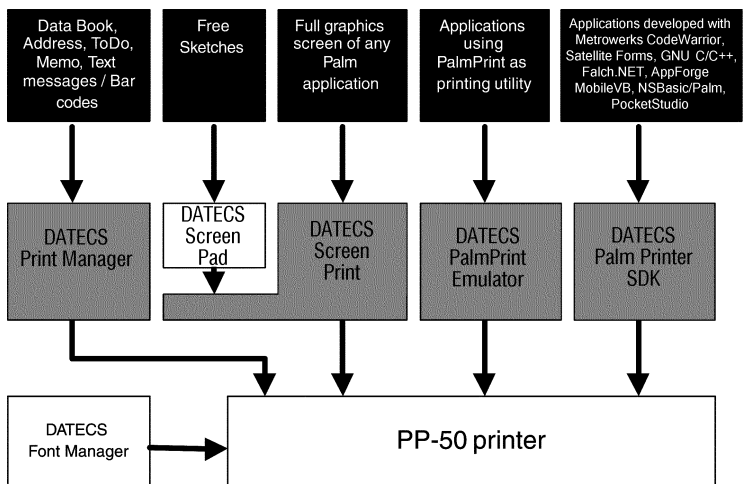
## Print Software Compatibility

There are four (4) possible methods to print using the PP-50 software package. As shown in the diagram below, data or images from many PALM OS applications (black box) can be printed using one of the DATECS (Print Manager, Screen Print, Palm Print Emulator, or Palm Printer SDK) printing tools (gray box).

The printing method used depends on the type of data you will print (Text or Graphics) as well as the application's design.

For example, applications such as Address and Memo do not have printing capabilities built-into the application itself "No print option in menu ". Therefore, the DATECS Print Manager is used to extract and print data from these applications.

Applications that have built-in printing capability can use the DATECS Palm Print Emulator.



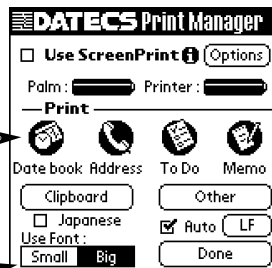
## Print Manager

The DATECS Print Manager can print information from Date Book, Address, To Do, and Memo applications. The following is a step-by-step process of printing any record from the Address application.

- Step#1: Open the Print Manager so that the screen on the right is displayed.

Applications compatible with the Print Manager are listed in this screen as shown on the right.

Also available from this screen are text formatting options as well as Screen Print configuration.



- Step#2: Select font size option that the printer should use when printing.

Note: The format of your data in the Address book determines how the printed data will look.

Select the Address application as shown on the right.



- Step#3: Select the address record to print as shown on the right.

You can view the record selected before printing by selecting the [View] command option.

To print the record, select the [Print] command option.

Select [Done] to return to Print Manager.



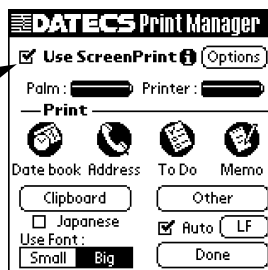
## Screen Print

The DATECS Screen Print can print a graphics view of any screen currently being displayed. The following is a step-by-step process of screen printing.

- Step#1: Open the ScreenPrint Options application shown in Step #2 by one of the following methods.

Print Manager - Check the [Use ScreenPrint] box and select [Options] command

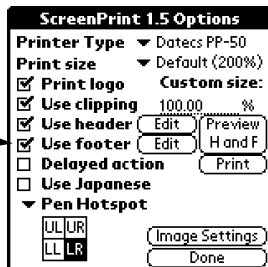
ScreenPrint - open the ScreenPrint application shown in Step #2



- Step#2: Check all necessary options to use when Printing screen information.

When adding a Header & Footer to the screen printed, use the [Edit] option to add the text to be printed.

To add a logo to the screen print, it must first be loaded into the PP-50 using the Font Manager. See the section on Logo Manager.



- Step#3: After the ScreenPrint options have been configured screens can be printed using the steps described below.

1. Open any application that has information to be printed.
2. Display the information to be printed.
3. Tap the Bottom Right Corner of the Screen as shown on the right.



## Palm Print Emulator

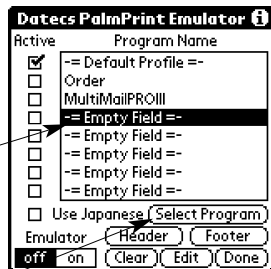
The DATECS PalmPrint Emulator can print any application that use PalmPrint as a utility. The following is a step-by-step process of printing using PalmPrint Emulator application.

**Step#1:** Open the PalmPrint Emulator so that the screen on the right is displayed.

The object is to add an application to the List of default profiles.

Select one of the [=Empty Field=] items as shown on the right.

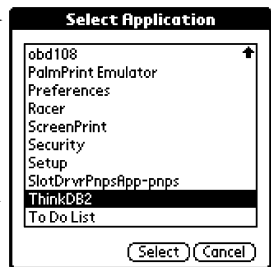
You can add as many applications using Steps #1 - #5.



**Step#2:** Select the [Select Program] option from the screen on the right.

Use the scroll arrows to find the Application to be added to the list.

Highlight the application, then tap on the [Select] option.

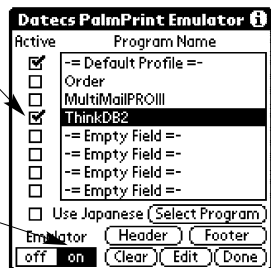


**Step#3:** Check the box on the left of the newly added application as shown on the right.

You can continue to add more applications or continue configuring the printing options.

Before continuing on to configuration, select the [ON] Emulator option.

Select the [Edit] option to continue.

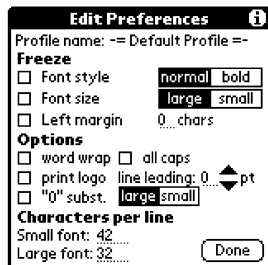


## Palm Print Emulator

**Step#4:** Select any text formatting options that the printer should use when printing.

Note: The format of your data determines how the printed data will look.

Select [Done] to complete your settings and exit the PalmPrint Emulator application.



**Step#5:** Open the application where data is stored. Display the information to be printed.

Open the application's menu and select the [Print] option.

Notice in the sample on the right that this option is [Print Record].



**Note:** If the application you are using does not have a [Print] option or a similar one. This may indicate that the application does not support printing.

If this is the case, see section on "Screen Print".

## Logo Manager

The Logo Manager is a DATECS software utility that helps you create and format PC BMP graphics files into PALM OS format. Using Hot Sync, logo files are then transferred on to the PDA for use with the PP-50 printer.

Logo Specifications: Image Size - 384 x 240 pixels (dots)  
File Format - PC BMP (Black & White) or monochrome

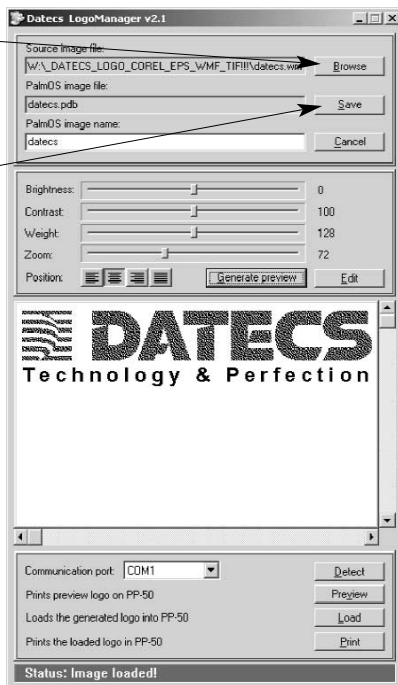
After creating and saving your logo/logos files, open the DATECS Logo Manager (see section on Installing Software) as shown below.

Using the [Browse] command, locate your logo file. Logo Manager automatically assign an output file and output name.

Next click on the [Save] command option to convert the BMP file to PALM OS compatible file format with extension PDB.

Using your Hot Sync tool, transfer the logo file "\*.pdb" on to your PDA.

See Font Manager section on using the new logo.



## Font Manager(Fonts)

The DATECS Font Manager is a tool for loading new fonts and logos into the PP-50 printer (see Logo Manager section for creating and formatting logos).

**Step#1:** Open the Font Manager application as shown on the right.

**Note:** If no font name is listed, you can load the fonts supplied on the floppy disc or CD ROM using Hot Sync.

Select the font to be loaded into the PP-50 then tap on the [Load] option.

**Notes:** The PP-50 comes preloaded from the factory with two fonts.

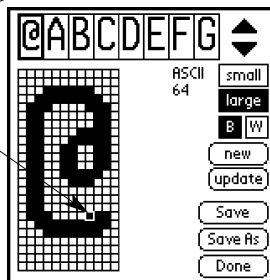
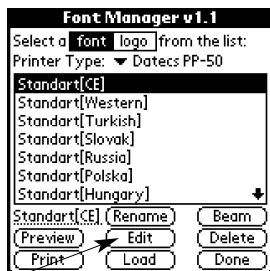
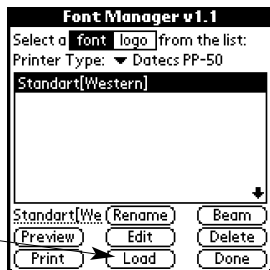
**Western Font** - the most widely used Latin characters.

**National Font** - the characters of a selected national alphabet can be loaded and edited.

Entirely new characters and symbols can be created using the [Edit] command option.

This function is very useful for creating customized fonts to prevent counterfeiting of secure documents.

Only by careful inspection through magnifying lenses can the difference be determined.





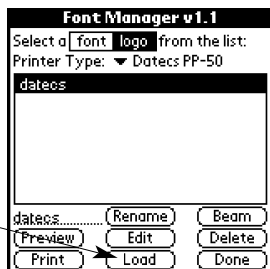
## Font Manager(Logos)

The DATECS Font Manager is a tool for loading logos into the PP-50 printer, (see Logo Manager section for creating and formatting logos).

Step#1: Open the Font Manager application as shown on the right.

Note: If no logo name is listed, you must load the logo you have created using the Hot Sync tool.

Select the logo to be loaded into the PP-50, then tap on the [Load] option.

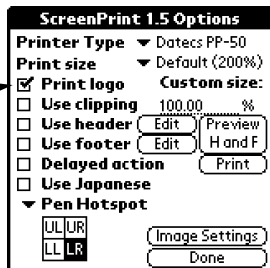


### Printing Logo

Case#1: After the logo has been loaded in to the PP-50, open the ScreenPrint Application as shown on the right.

Check the [Print logo] option box then exit the ScreenPrint application.

The logo will now be printed when a screen-printing is performed.

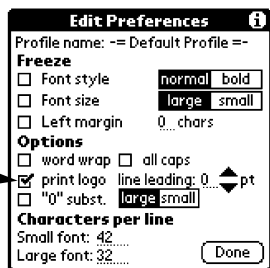


### Printing Logo

Case#2: After the logo has been loaded in to the PP-50, open the PalmPrint Emulator application and select the [Edit] command option to display the "Preferences" screen as shown on the right.

Check the [print logo] option box then exit the PalmPrintEmulator application.

The logo will now be printed from the applications [Print] command option.



## Magnetic Card Reader

The DATECS PP-50 comes in a magnetic card reader version. The card reader incorporates a (3)-track head requiring a single swipe to read field data on all three tracks.



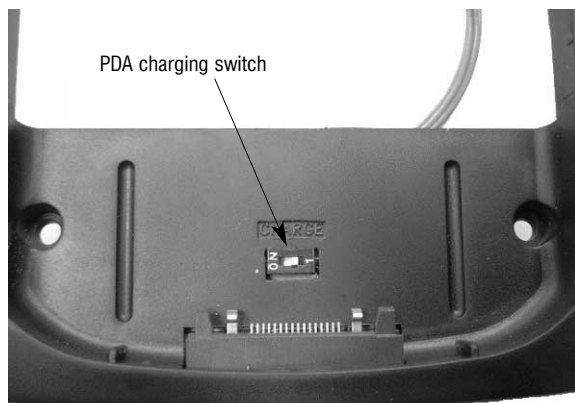
Integrating the magnetic card reader feature into a Palm OS application requires the use of the PP-50 SDK's Shared Library.

For detailed information on integrating the card reader feature refer to the SDK located on the PP-50 Developer Tools CD ROM.

## PDA Cradle Charger

The DATECS PP-50 comes with a cradle charger for PDA versions with rechargeable batteries. The cradle charger can be Enabled (allow PDA to be charged when in the PP-50 cradle) or Disabled (prevent PDA from charging when in PP-50 cradle).

The figure below shows the ON/OFF switch that enables/disables charging:



Note that the PP-50 charging cradle only works with PDA that uses rechargeable batteries. The PDA charging switch will only be found on cradles for PDA that uses rechargeable batteries.

Recharging the battery of the PDA through the PP-50 battery is possible but not recommended. Use this option only in cases of emergency by switching the PP-50 charging switch ON to extend the duration of the PDA battery.

## Contact Information

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A hand holding a black pen is pointing at a small, rectangular button labeled 'Print' on a computer keyboard. The background is a blurred image of a keyboard with various keys visible, including 'Tab', 'Caps', 'Esc', 'F1', 'F2', 'F3', 'F4', 'F5', 'F6', 'F7', 'F8', 'F9', 'F10', 'F11', 'F12', 'Print', 'Scan', 'Pause', 'Break', 'Insert', 'Delete', 'Home', 'End', 'Left', 'Right', 'Up', 'Down', 'Page Up', 'Page Down', 'Backspace', 'Enter', 'Shift', 'Ctrl', 'Alt', 'Fn', 'Win', 'Menu', 'Arrow', 'Tab', 'Caps', 'Esc', 'F1', 'F2', 'F3', 'F4', 'F5', 'F6', 'F7', 'F8', 'F9', 'F10', 'F11', 'F12', 'Print', 'Scan', 'Pause', 'Break', 'Insert', 'Delete', 'Home', 'End', 'Left', 'Right', 'Up', 'Down', 'Page Up', 'Page Down', 'Backspace', 'Enter', 'Shift', 'Ctrl', 'Alt', 'Fn', 'Win', 'Menu', 'Arrow'.

Print



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