

**DATECS**

**PP-50**

**PALM-SIZE  
PRINTER  
FOR PALM-OS PDA**

**HANDBOOK**



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**PLEASE READ  
INSTRUCTIONS CAREFULLY  
BEFORE USING THE PRINTER!**

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## **Disclaimer and Limitation of Liability**

DATECS Ltd., assumes no responsibilities for any damage or loss or claims by third parties which may arise through the use of these products. DATECS Ltd., assumes no responsibility for any damage or loss caused by deletion of data as a result of malfunction, dead battery or repairs.

Be sure to make backup copies of all important data on other media to protect against irreparable data loss.

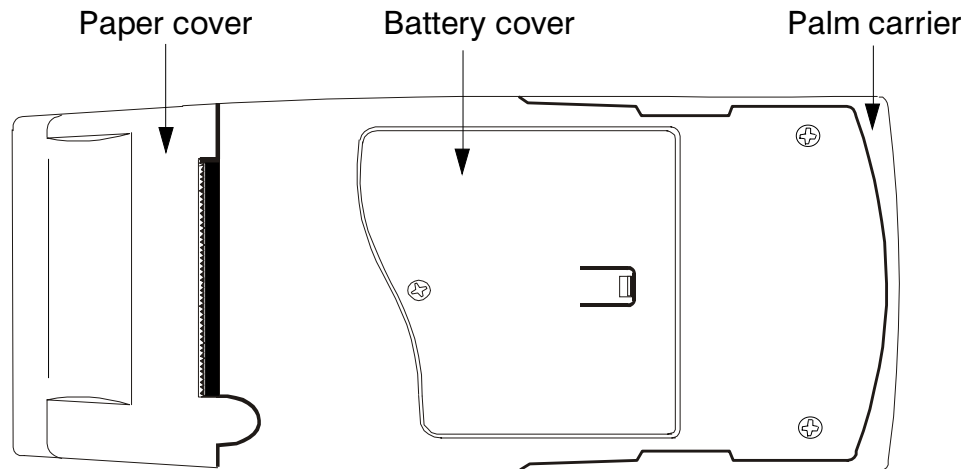
## ■ Technical data

<b>Printing method</b>	- Line thermal dot printing
<b>Printing speed</b>	- up to 50 mm per second
<b>Dot density</b>	- 8 dot/mm, 203 dpi - horizontal and vertical
<b>Inbuilt fonts</b>	- A - 12 x 24      B - 9 x 16
<b>Loadable fonts</b>	- C - 12 x 24      D - 9 x 16
<b>Printing columns</b>	- Font A/C - 32 columns      Font B/D - 42 columns
<b>Power supply</b>	- Rechargeable battery pack, 7,2V/1,3, 1,5 or 1,8 AH AC/DC adapter 12V/0.5A
<b>Environment</b>	- Operational t : 0 °C - 45 °C / 10 - 90 % RH Storage t : -25 °C - 70 °C / 10 - 90 % RH
<b>Reliability</b>	- 50 Million pulses/50 km.
<b>Dimensions</b>	- L - 195 mm; H - 50 mm; W - 85 mm. Weight - 420 grams with battery and paper roll
<b>Thermal paper</b>	- Roll 57 mm wide, 40 mm Ø

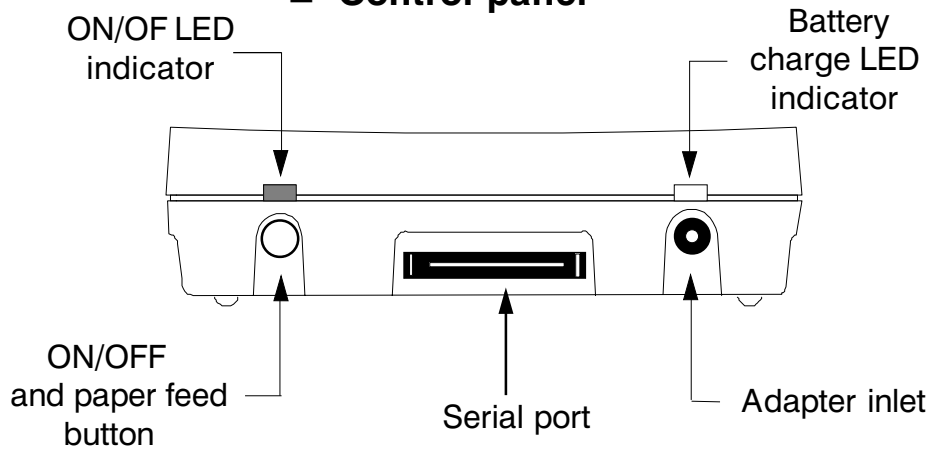
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## ■ PP-50 Overall view




## ■ Control panel

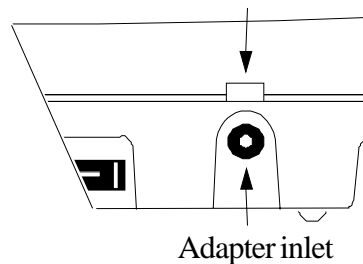


## ■ Battery recharge

**NOTE: With a fully charged battery, MP-50 can print out more than 5000 inches of printouts (alpha numeric)!**

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

**To recharge the battery plug AC/DC adapter (12V/0.5A+  - ) and charge until the *red battery charge indicator turns to green.***

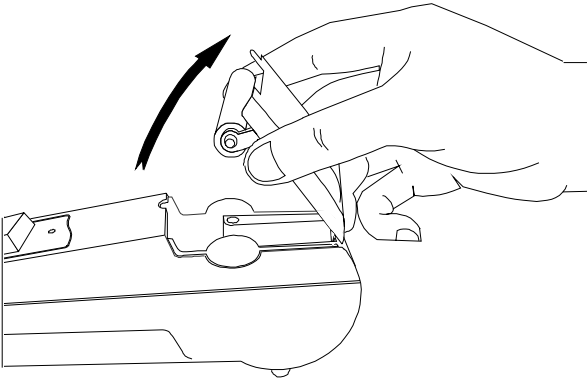


## ■ Loading paper

Placing the roll of thermal paper into the printer is done after lifting off the cover of the paper shell in a vertical direction. After inserting a new paper roll the cover must be placed back in its position by exerting pressure with the fingers of both hands, as shown below:

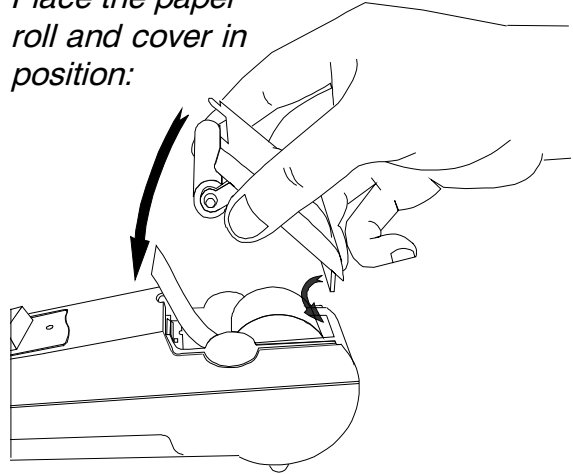
①

*Open paper cover holding with both fingers and remove the remaining part of the old paper roll:*



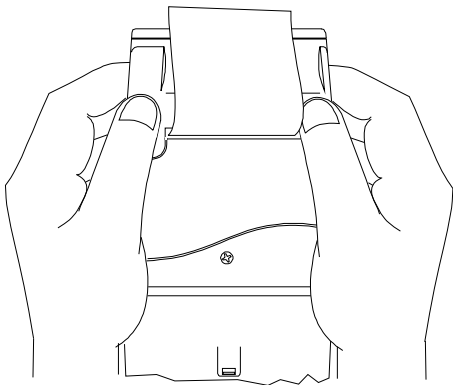
②

*Place the paper roll and cover in position:*



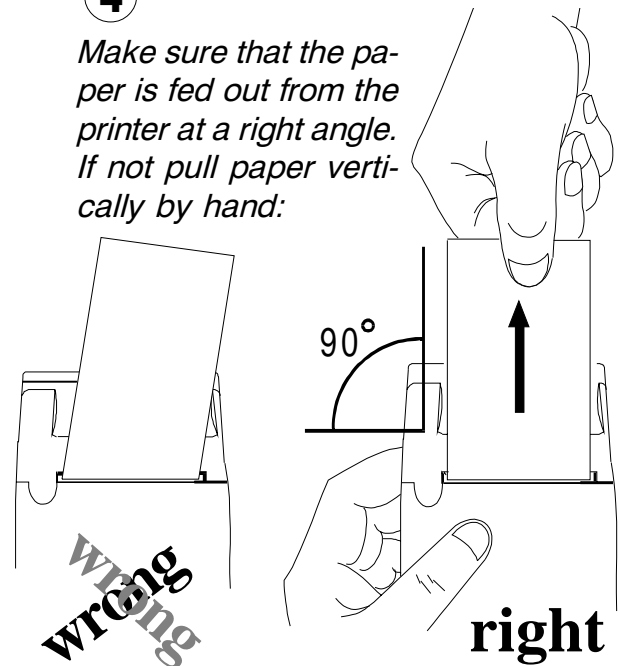
③

*Press with both fingers to click cover of shell in place:*

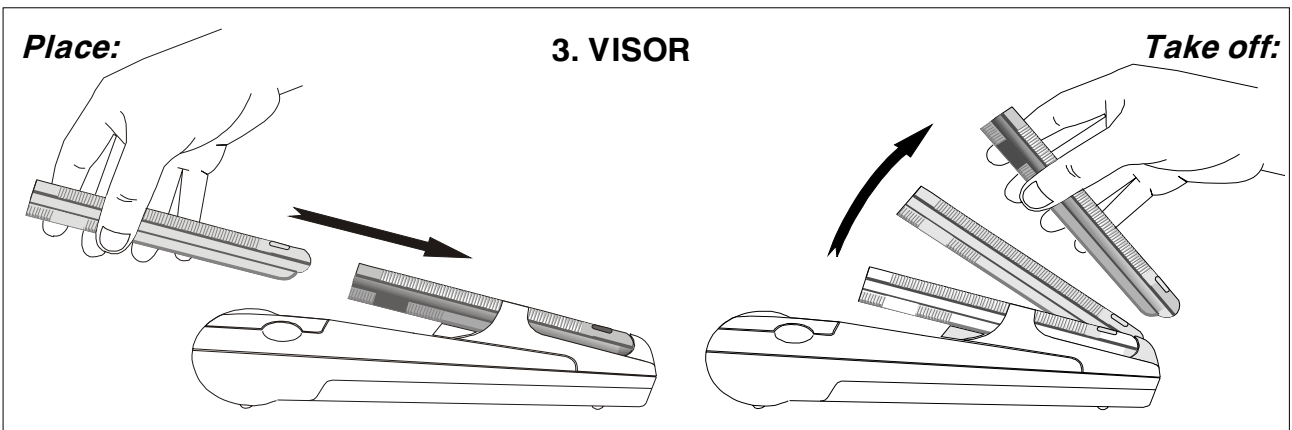
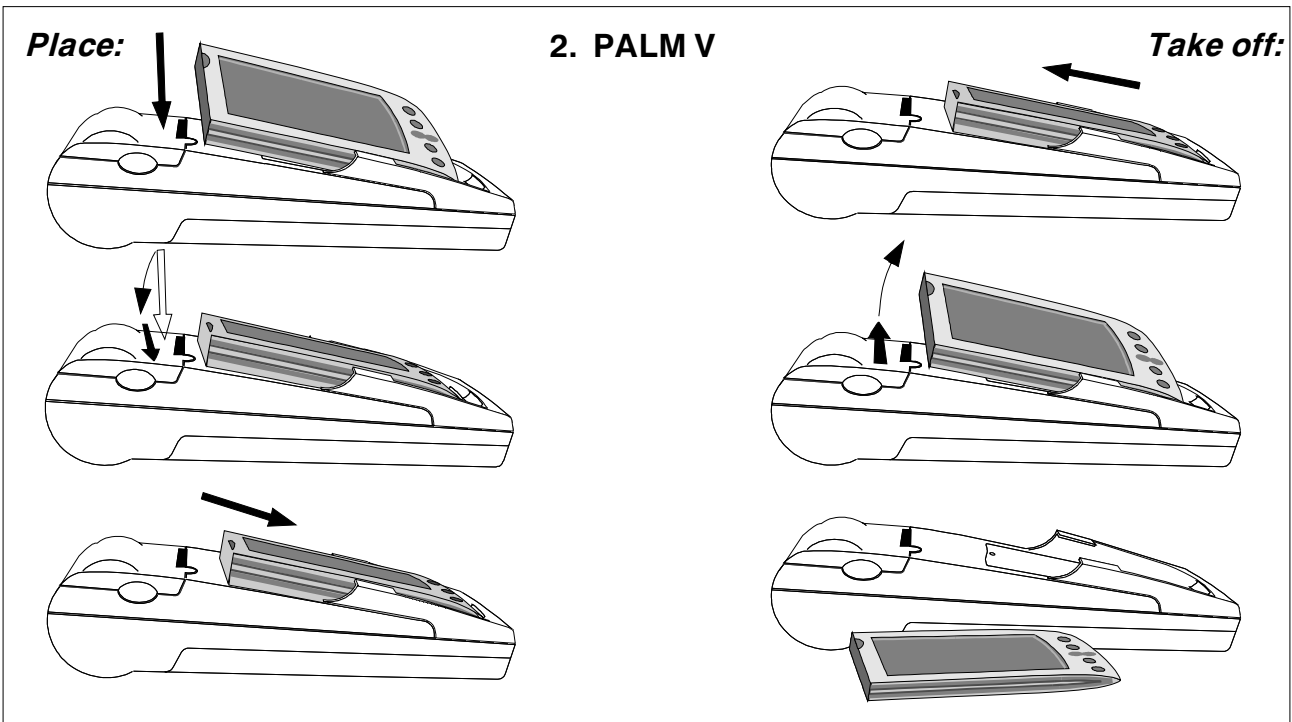
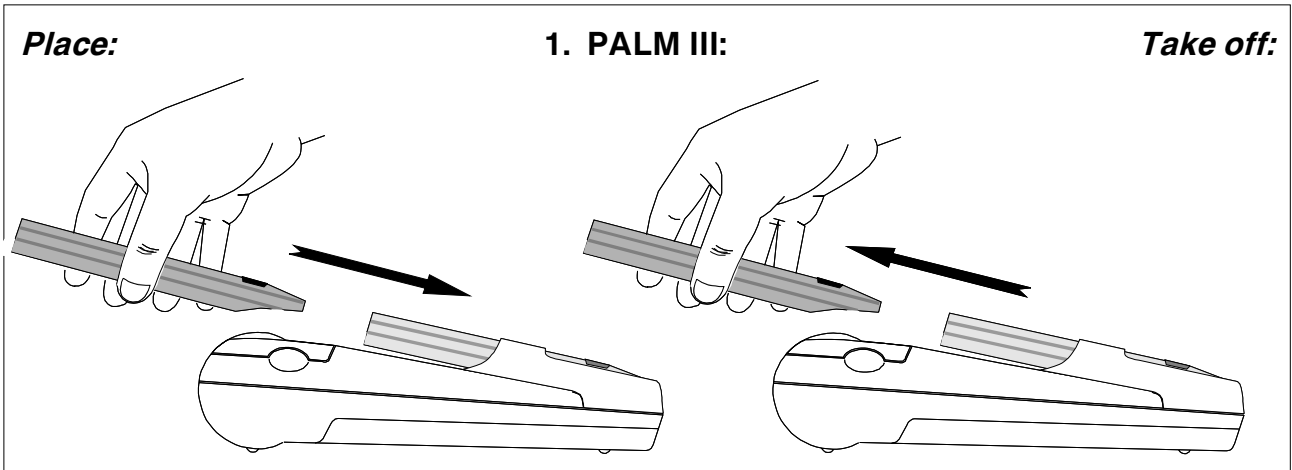


④

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



■ **Placing and removing the PDA from the printer**



## ■ DATECS PP-50 Palm Printer - an Introduction

DATECS PP-50 is an unique piece of portable equipment specially designed to cradle the world's most popular palm-size computers – PALM III series, PALM V and VISOR.

DATECS PP-50 can be used by:

✓ **End users** - to print data from the standard palm applications - Date Book, Address, To Do and Memo, as well as the exact screen images, generated by any PALM OS application or selected parts of it.

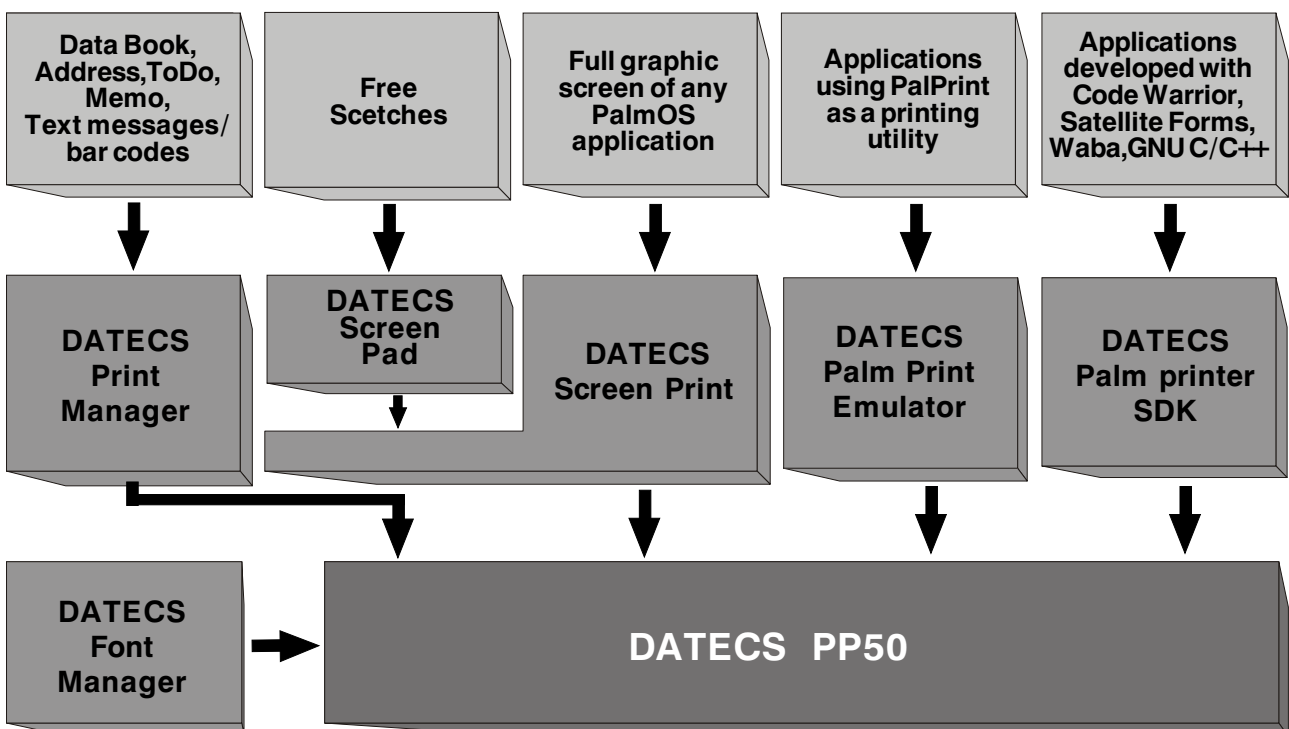
✓ **Manufacturers** - for shipping, receiving goods, date and time printing, inventory control and W.I.P. management.

✓ **Distributors** - for marking prices, sales receipts, shelf labeling, route deliveries, pallets and packages labeling and portable POS.

Through an optional cable DATECS PP-50 serves as a Hot Sync cradle for PD. It can also be used as a recharge station for the handhelds with rechargeable batteries like PALM IIIc and Palm V.

**DATECS PP-50 Printer** is supplied with a software package containing four programs: **DATECS Print Manager**, **DATECS Font Manager**, **DATECS Palm Print Emulator** and **DATECS Screen Pad**.

### DATECS APPLICATIONS CHART

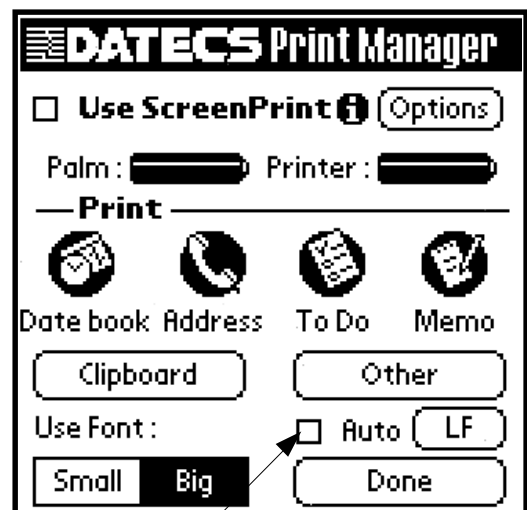


## ■ DATECS Print Manager

**DATECS Print Manager** is used to print data from the standard palm applications - „Date book“, „Address“, „Memo“ and „To do“ as well as some other, very useful options. The font, in which this data will be printed, is permanently downloaded into the memory of the printer by the Datecs Font Manager.

### √ Printing data from standard palm-size computer applications:

1. Select the size of the font you wish to print with - tap **Small** or **Big**;
2. Select the application from the Print Manager menu - for example „Address“;
3. On the „Address List“ screen tap the item (name of person) you wish to print and tap **Print** or jump to the address directly by simply writing the first letter of the name on the graffiti screen using the stylo. The PP-50 will print out all the data entered for this address item.



### √ Tearing off ready prints - options:

If you tap „Auto“ paper feed after every print the mechanism will feed an additional 3 lines of paper for seeing and tearing off the whole of the print data:

tear off

√ If you tap "Auto" paper feed after every print the mechanism will feed an additional 3 lines of paper for tearing off the whole of the printed data:

„Auto“ paper feed is not selected when two or more screens will be printed jointly one after another in one single document.

Tap „Auto“ for adding 3 lines for tear off or use the manual paper feed button on the screen or on the left of the printer's control panel.

previous print

next print

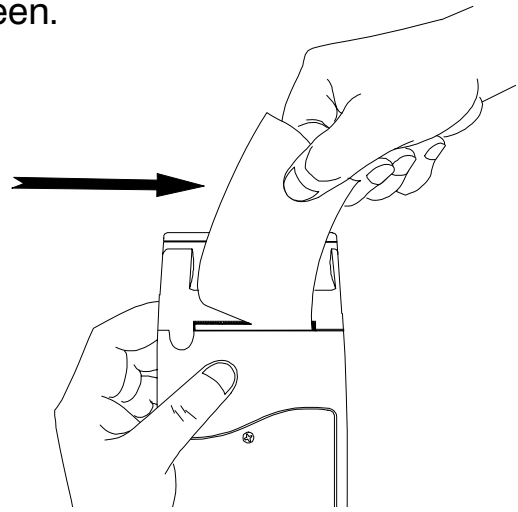
tear off

√ If you tap "Auto" paper feed after every print the mechanism will feed an additional 3 lines of paper for tearing off the whole of the printed data:

Paper can also be fed to any desired length through the printing mechanism by tapping „LF“ (line feed) button on the screen.

**IMPORTANT!**

If the paper finishes in the middle of a printing session, insert a new paper roll and press the ON/OFF paper feed button. The printer will print out the remaining part of the document on the new paper!



*When tearing the print off pull forward and sideways:*

**NOTE.** The PF message on the screen and the blinking of the ON/OFF LED indicate paper end - place new roll of thermal paper.

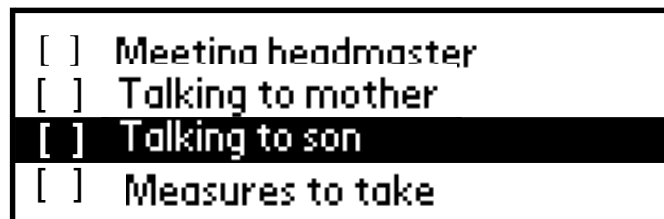
**NOTE** that the same LED indicator will blink **SLOWER** when indicating printing mechanism overheat.

■ **Printing data from „To Do“**

Tap the „To Do“ icon and select from the options „Print Uncompleted“, „Print All“ or „Select“, where:

- √ „Print Uncompleted“ will print out all incompleted items in the „To Do“ list;
- √ „Print All“ will print out all items from the list;
- √ „Select“ offers the option to select from the list only the item which will be

printed out. The selection is marked by darkening. To view the complete content of the selected engagement tap „View“

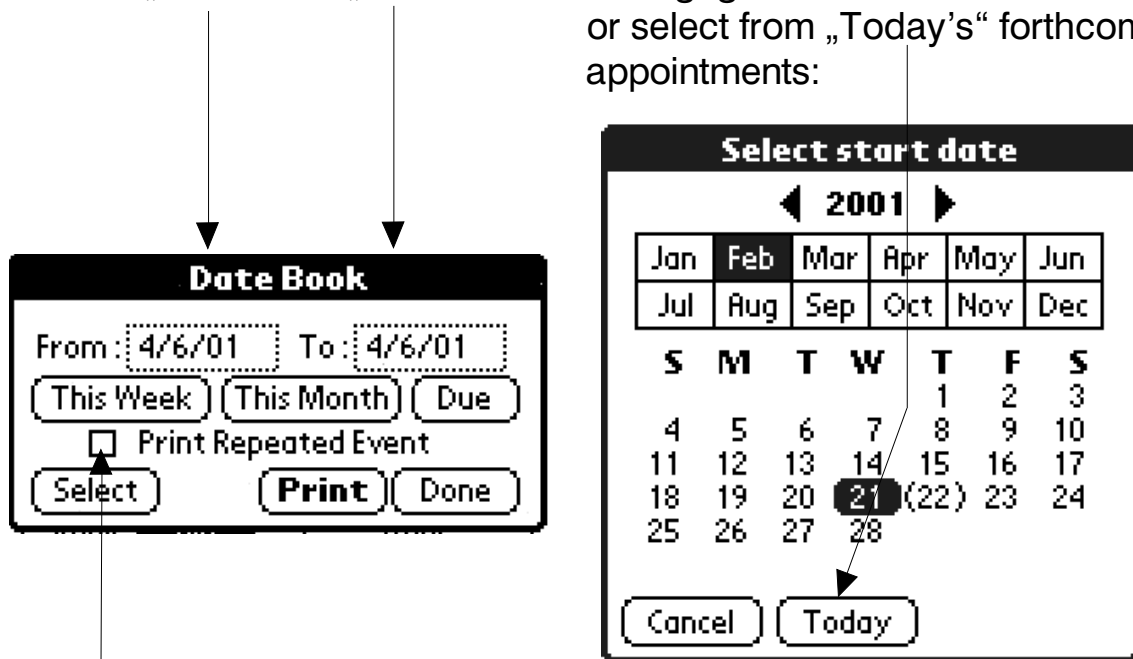


Tap  or  to print the item or return to the main menu.

■ **Printing data from „Date Book“**

Tap the icon „Date Book,, and select from „This week“, „This month“ and „Due“.

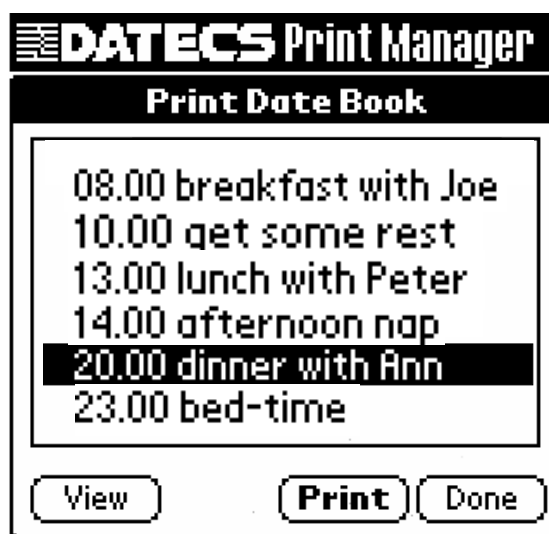
Tap on dates „From“ and „To“ to select all engagements within a time frame or select from „Today’s“ forthcoming appointments:



Tap „Print repeated event“ box to select the appointments of similar nature which have to be met at regular intervals on fixed dates - „seeing the dentist“, for example.

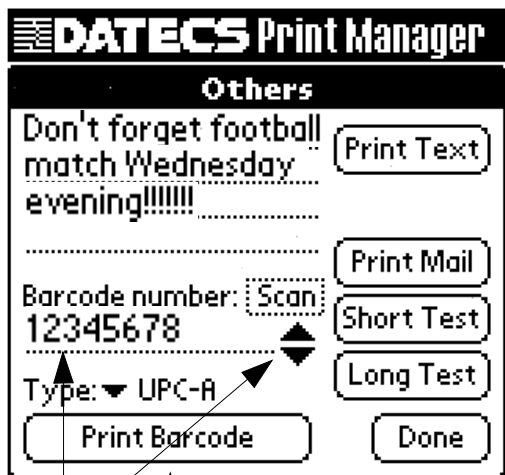
Tap „Due“ and the PP-50 will print out all appointments arranged until the end of the next year.

To print a single appointment: tap „**Select**“ and the chosen appointment. To view the complete content tap „**View**“ and to print out - tap **Print** .



Tap **Clipboard** to print out the contents of the clipboard.

Tap „Other“ to access several very useful options:



Tap „Print Text“ for printing out fast notes written either on the keyboard or with the stylo in the character sector of the graffiti screen.

„Print Mail“ will print out the contents of your mail box.

„Short“ and „Long“ (detailed) test print-outs.

Tap **Print Barcode** to print out your own bar codes and **TYPE** to select from the different bar-code systems. The digits of the barcode may be entered both from the keyboard or by writing with the stylo on the graffiti screen.

With the help of the „up“ and „down“ arrows you can change the content of the barcode by plus or minus one digit.

When using a Visor and a bar-code reader module by pressing **Scan** you can read any type of bar-code - its content will appear on the „bar-code“ field:

Press „Done“ to complete the operation and return to main menu.

**NOTE!**

***Detailed tests can also be printed out by holding the „ON“ button down for more than 2 seconds if the printer has been switched „OFF“.***

## ■DATECS Screen Print

The DATECS Screen Print allows the printing out of the exact „one-to-one“ screen images generated by any Palm-OS application by tapping the lower right corner of the „FIND“ icon:

Select **Options** from the menu a number of important parameters can be set to generate print-outs, containing the elements of all elaborately prepared official documents. DATECS Screen Print offers the option to print:



**Logos** (graphic image or text of up to 384 by 248 pixels) permanently downloaded into the memory of the printer;

**Headers and Footers** - Up to 8 lines of 32 „Large“ and 42 „Small“ characters per line. „Edit“ headers and footers includes the options to:

- Print „**Bold**“ or „**Normal**“ characters,
- Left, central and right „**alignment**“;
- „**Underline**“ headers and footers;
- „**Preview**“ before print out.

**Clipping** - with the help of vertical margins DATECS Screen Print offers the option to print only the desired sectors of the screen-very useful for printing a longer screen by simply scrolling it.

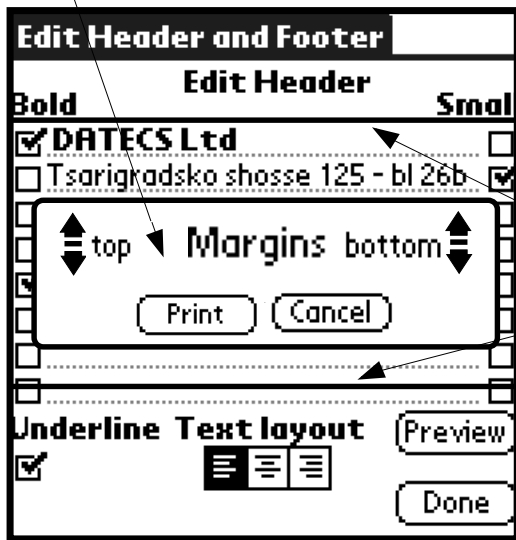
**Print intensity** - selected on a gradient scale of max. 150%.

Activate **DATECS Screen Print** by tapping the box in the **DATECS Print Manager** menu and **Options** to select the desired settings on the Screen Print Options menu.



You can set up the print by selecting from the options to:

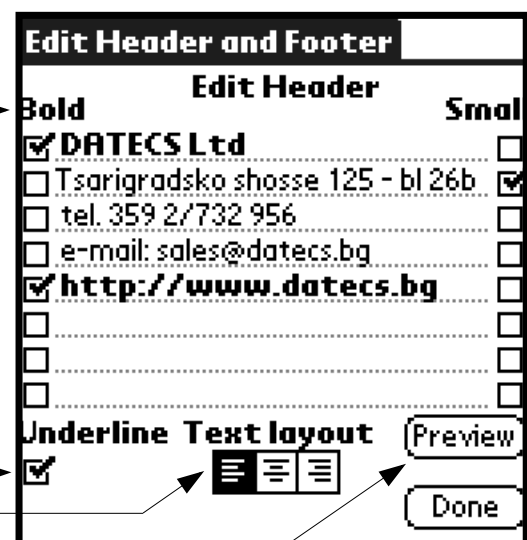
- √ print out pre-loaded logo;
- √ **clip off** unwanted parts of screen;
  - √ include or not header/footer;
  - √ preview header/footer;
  - √ select print intensity.



Tap on „up and down“ arrows to move the horizontal lines with the stylo to set vertical margins and clip off desired part of screen for printing:

Tap on „Edit Header or Footer“ to:

- √ Chose „*Bold*“ or „*Normal*“
- √ „Big“ or „Small“ characters
- √ „Underline“ headers and footers
- √ „Alignment“ (left, central, right)
- √ „Preview“ prior to print

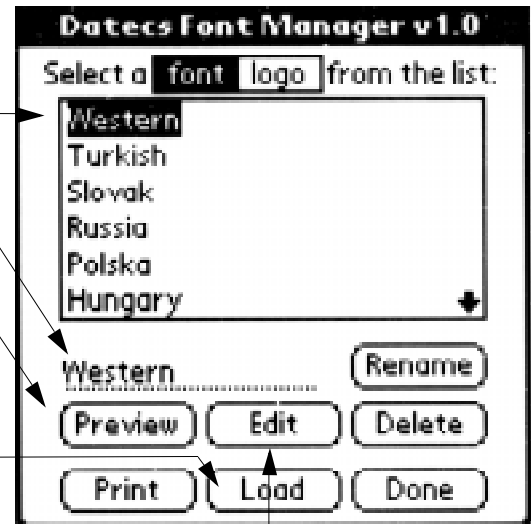


## ■ DATECS Font Manager

An important feature of the PP-50 is the **DATECS Font Manager**, which offers the option to download to the printer an alternative font and a full graphic logo.

Tap „Font“ to:

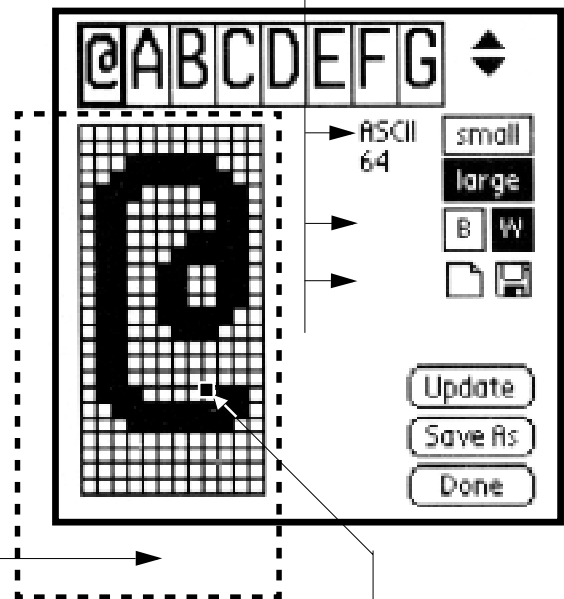
- √ Select the font you want to print in;
- √ Rename the selected font set;
- √ Preview the chosen font:
- √ Download the selected font to the printer;
- √ Edit the selected set of characters or create entirely new characters and symbols;



Two fonts are permanently downloaded into the memory of the PP-50:

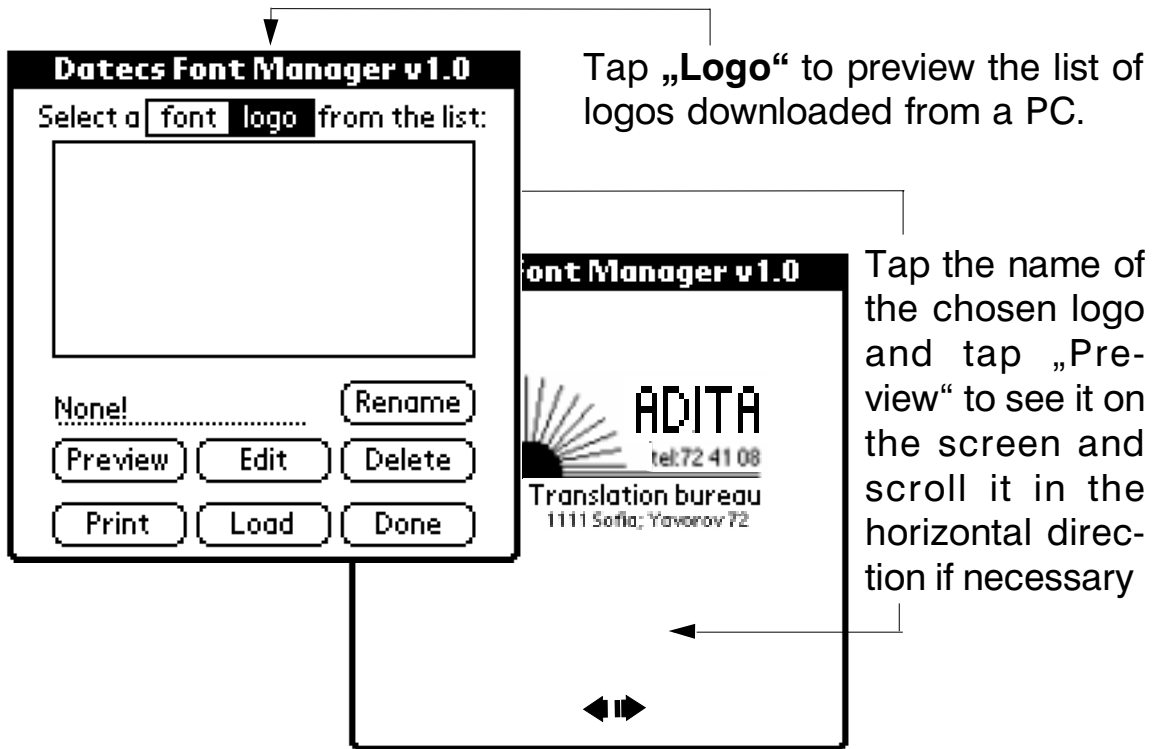
a/ The „**WESTERN**“ font - the most widely used Latin characters and

b/ „**National**“ font, where the characters of a selected national alphabet can be downloaded and edited, entirely new characters and symbols can be created on and downloaded from a PC or by simply working on the Palm with the stylus in the special field of the „Edit“ screen:



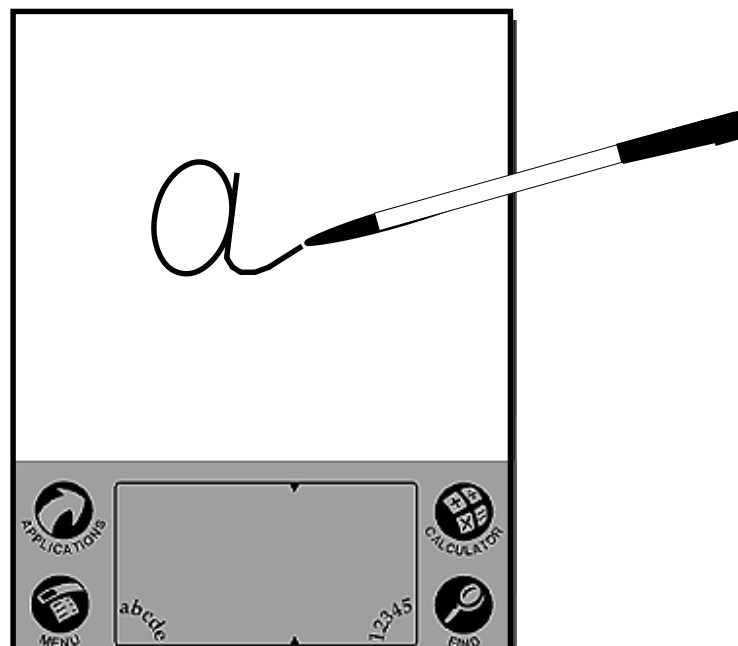
*The function is very useful if you want to issue an original document which is difficult to counterfeit. To do so, you can slightly modify any symbol of your choice in such a way, that the difference may be established only after careful inspection with magnifying lenses - for example an added mark:*

Fonts can be printed by the PP-50 in two sizes - **Large** and **Small**.



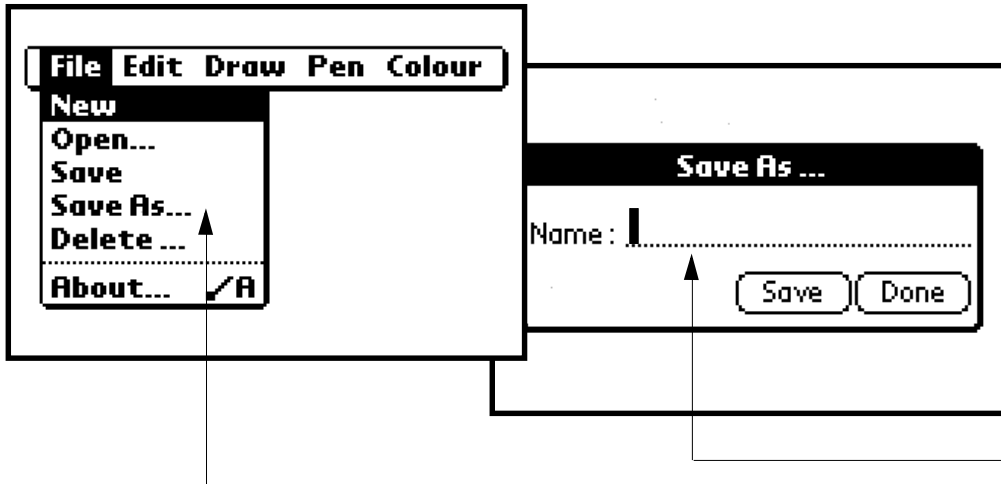
## ■ DATECS Screen Pad

The DATECS Screen Pad is a freehand creative tool, useful for drawing sketches, rough illustrations and descriptions and for printing them out on the spot. Select Screen Pad from the main menu (Applications). After a short message you will get a blank screen which is the canvas for your drawing or your writing paper:



Tap „Menu“ to select from the following options:

„File“: For organizing your drawings and sketches into a file system -opening saved files and naming and saving new ones:



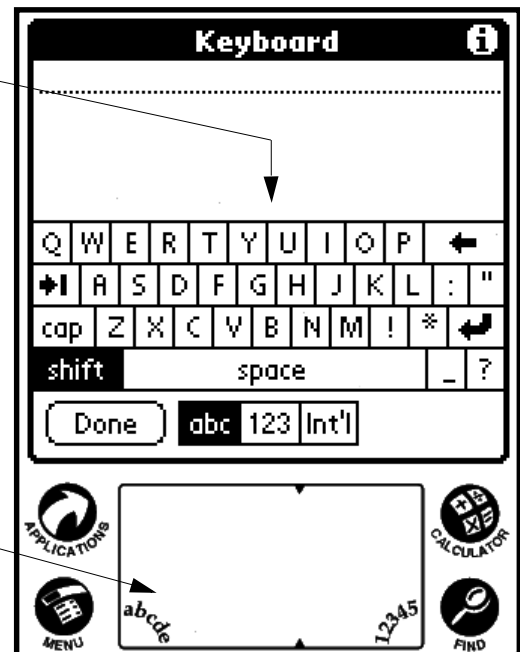
**Example:** Tap „Save as“ to name your new drawing on the „Save as“ screen.

Letters are entered on the garffity area or by tapping characters on the „Key-board“ screen of the pad.

The „Keyboard“ screen is activated by tapping on the „symbols“ sector of the graffiti screen of your palm size computer:

Press „Done“ after entering the name of the file.

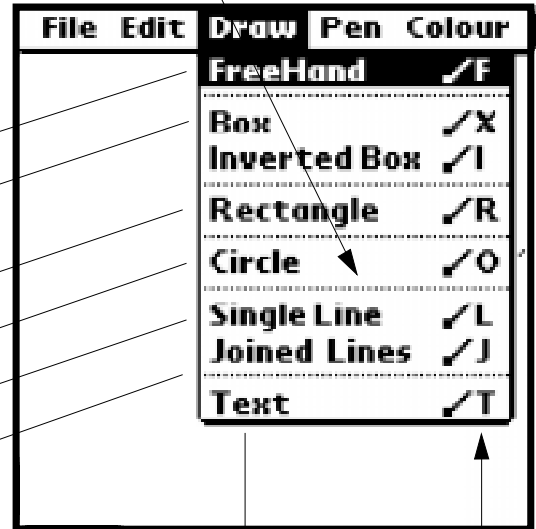
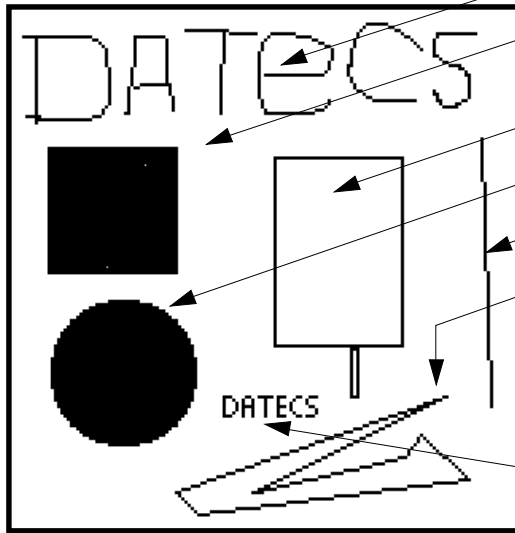
To open this file again, press „Open“ on the „Menu“ screen of the Screen Pad.



## Working with Screen Pad

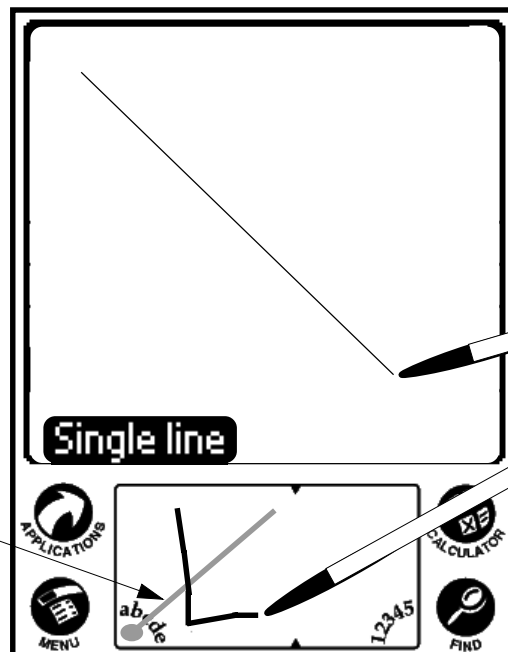
Tap „Draw“ to select the freehand drawing tool. The menu offers a number of useful options, which can greatly enhance your creativity and imagination:

*Samples:*



Note: Characters are entered by writing with the stylo in the character sector of the graffiti screen.

**Tip:** For faster shifting between drawing tools use the short cuts: write the code symbols in the character sector of the graffiti screen, after activating the screen by tracing a diagonal line from left to right as shown on the figure:

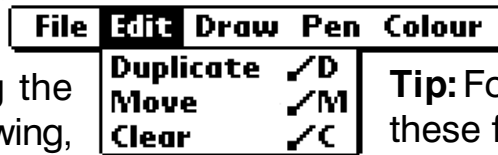
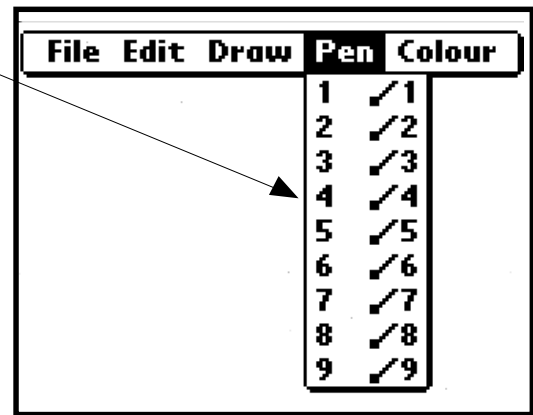


Example: write „L“ to draw straight line or „R“ for a rectangle, etc.:

„Pen“: Select pen thickness (only for free-hand drawing);

**Note:** Thinner lines are drawn faster than thick lines - be more careful with the stylo when drawing thicker lines.

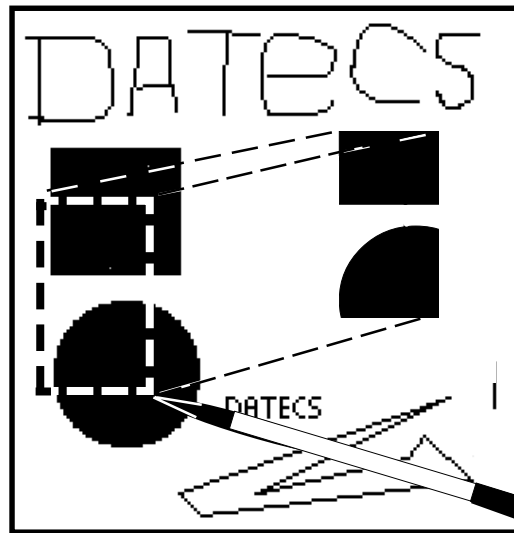
**Tip:** Set line thickness by working with the stylo on the numeric sector of the graffiti screen.



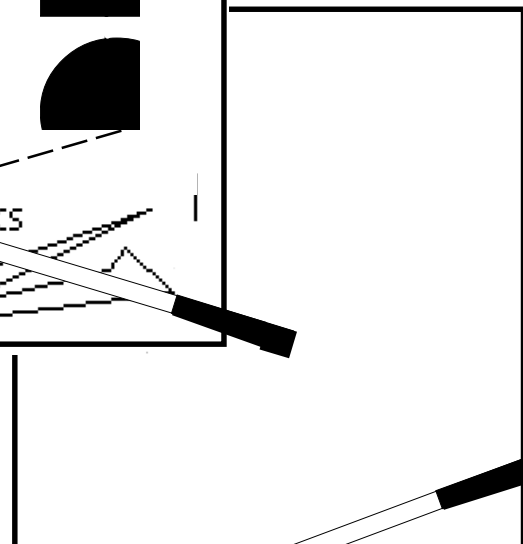
„Edit“: For duplicating the whole or part of the drawing, to clear and move parts from the created image;

**Tip:** For faster shifting between these functions write with the stylo in the character sector of the graffiti screen:

Tap „Duplicate“ and draw a rectangle around the area you wish to copy and drag to a new location:



Tap „Clear“ to delete whole image and start a new drawing:



**Tip:** Shift between the three commands by writing „D“, „M“ or „C“ with the stylo on the character sector of the graffiti screen.

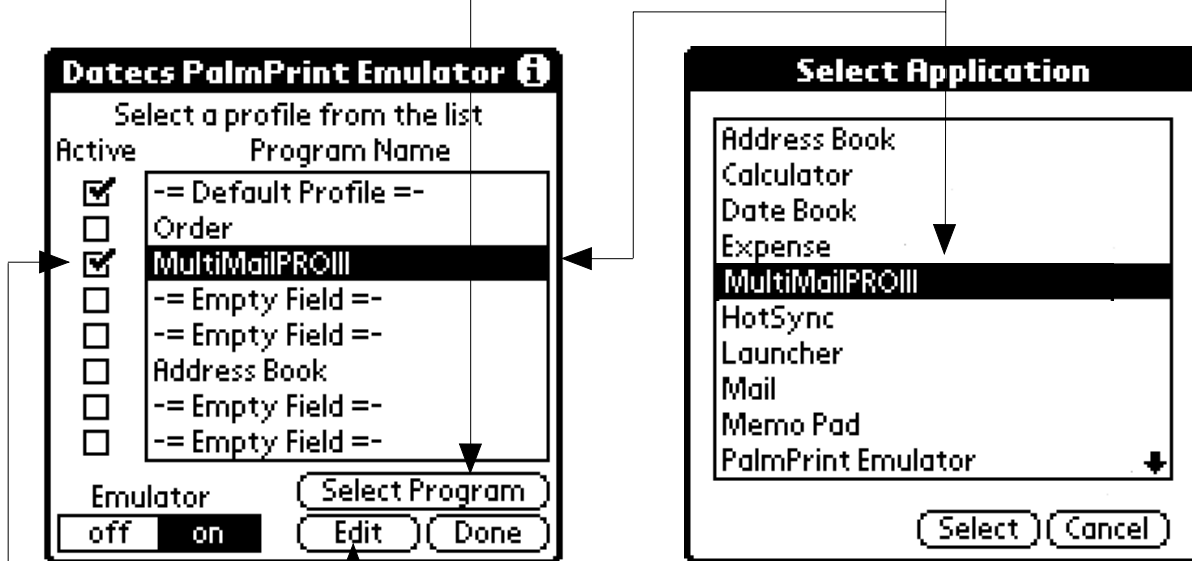
## ■ DATECS Palm Print Emulator

The **DATECS Palm Print Emulator** translates PalmPrint (R) commands to make them compatible to the DATECS **PP-50 Palm Printer**. It permits you to print out data from selected applications, which use the Palm Print as a printing utility. The parameters of the prints are individually set in advance for seven selected applications. The parameters of the prints from the rest of the applications in the memory of your palm size computer are set in a „**Default Profile**“.

### Installing a profile

After entering the DATECS Palm Print Emulator from the main menu select an empty field and then the application to which you will set a print profile by tapping „**Select program**“:

Tap the application on the Select Application menu screen and tap „**Select**“. The application will appear in one of the fields of the „**Program name**“ screen:



To set the print parameters for each selected application individually (printing profiles) tap „**Edit**“ or simply tap twice on the selected profile. After carefully choosing from the edit options menu screen (next page) tap „**Done**“ and return to main screen.

Tap the **check box** of a chosen application to activate the printing profile. The appearance of the prints from this application will always conform with the original settings. If the box is not checked, the application will use the settings in the „**Default profile**“ field.

## ■ Editing an application printing „profile“

The parameters of the prints from all available applications can be freely edited by tapping on the check boxes of the available options on the „**Edit Preferences**“ screen.

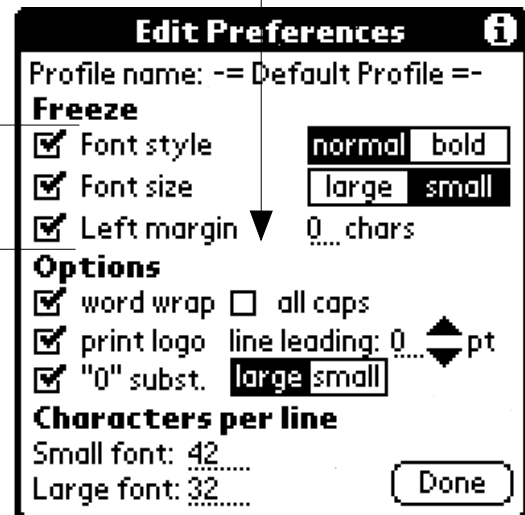
### Notes:

√ „**Freeze**“ settings are used to overwrite the individual print settings for „font style“, „font size“ and „left margin“ of the selected applications, regardless of the original settings.

√ “Zero code substitution” is a specific PalmPrint feature - it replaces ASCII code „255“ with „0“. In some languages, however, code 255 is a significant symbol and must not be replaced. In such cases you can turn off this substitution.

√ The „leading“ option defines the space between each line.

√ In the section „Characters per line“ you can change the value which the Palm Print Emulation returns to the application. This is useful for changing the format of the printouts. Default values are: 32 for the large font and 42 for the small font. For example, in the case of the „Take an Order (R)“ application the best results are achieved when values are set to 33 for the large and 43 for the small font.



## Using PP50 as a HotSync cradle

Put the PDA in the printer (PP50) and connect the cable to the PC with Palm desktop installed on it and press the „ON/OFF paper-feed button“ (the left half of the control panel).





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