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About PenReader

PenReader (for PocketPC) is a handwriting recognition system, that allows draw letters on the screen of your mobile device in any of all supported languages in accord with a recognition mode, specified in the settings of the application.

System Requirements

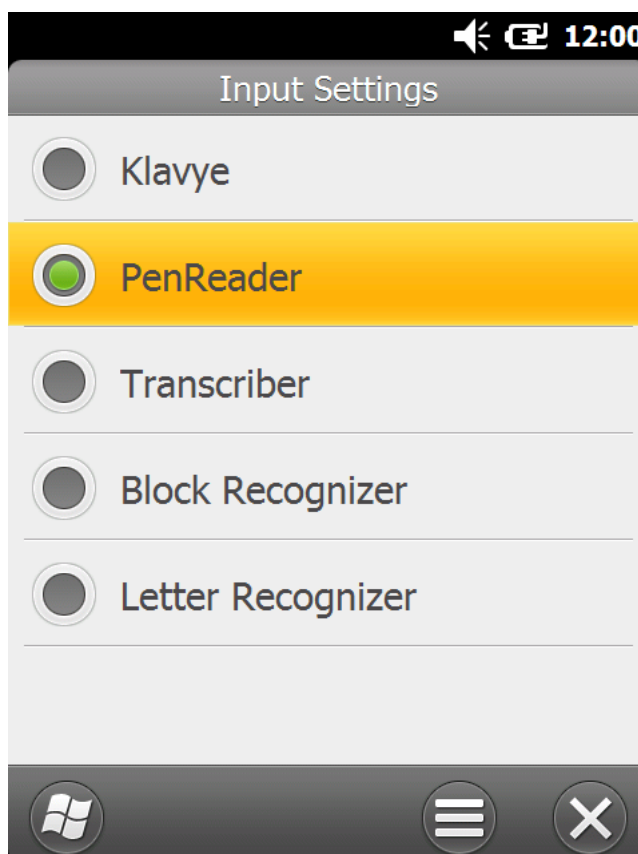
For correct functioning of **PenReader**, you need your Pocket PC to be based on Windows Mobile™ 5.0 or later (up to 6.5).



Getting Started

Open any application that supports text input. Use long tap (2-3 seconds) on the input method icon (it's contoured blue on the image) to open a list of active input methods:








Then select **PenReader** from the list and go back to the program:



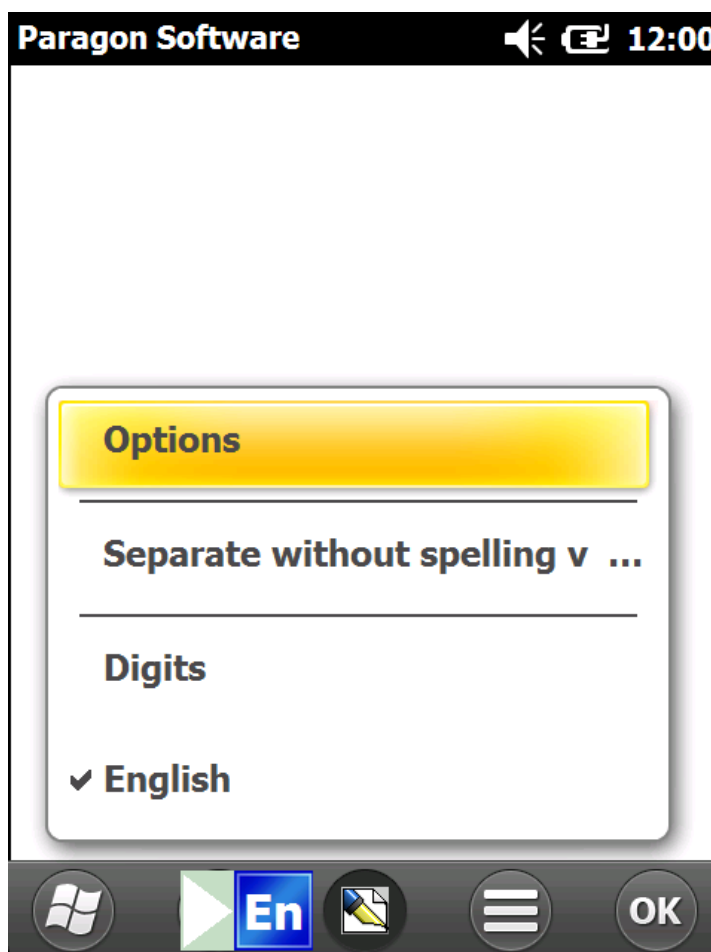
To the left from the input method icon you will see a square icon   which shows the current language. This icon can be changed to the floating one in the **PenReader** settings.

Use all the screen to write characters. Please, note, that the way you draw characters should correspond to the recognition mode currently specified in the application settings (see “**Recognition modes**” for details).

Tap the arrow  to open a toolbar with some additional buttons:

- **Backspace** button ;
- **Space** button ;
- several punctuation marks buttons 
(only  and  are available for the floating icon).

The button of current input language  is located next to the arrow button. Tap it several times consequently to switch the active input language of the handwriting recognition system (see “**Profiles**” section for details).



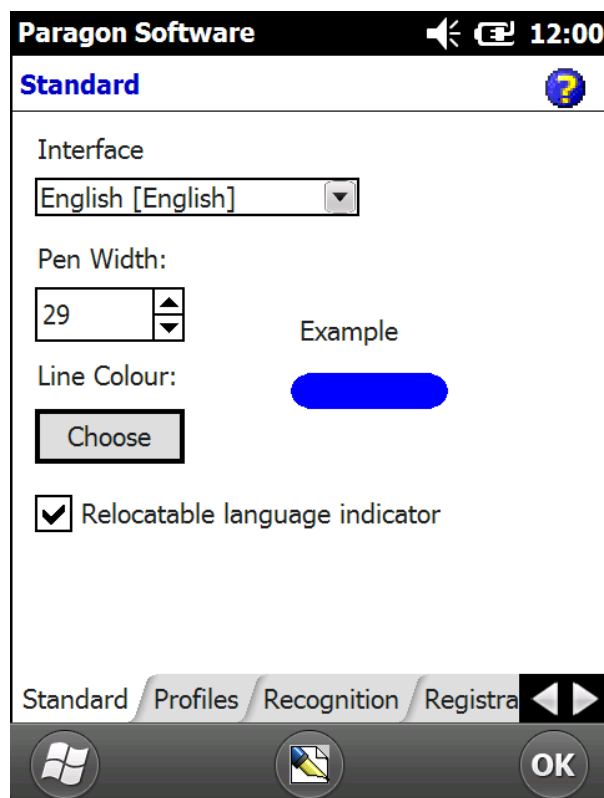
Use long tap (2-3 seconds) on the icon  to open a context menu with the following items:

- **Options** – press to go to the settings (see “**PenReader Settings**” section);
- **Separate without spelling versions** – switches on the *separate* recognition mode without using any built-in dictionaries. Use this mode to enter passwords, abbreviations and other words which lack in the dictionaries (See sections “**Recognition modes**”, “**Dictionaries**” for details);
- **Profiles** list – use it to switch between profiles; the current profile is marked with a tick. For detailed information see “**Profiles**” section.

PenReader Settings

To make your work with *PenReader* even more comfortable, you can change several parameters relating the process of recognition and the user interface. To open the settings, *PenReader* must be launched and its icon must be situated on the screen. This icon looks like a small blue square with either numbers or the abbreviation of a current input language. Use long tap (2-3 seconds) on this icon to open a context menu and select “**Options**” to open a window with five tabs: **Standard**, **Profiles**, **Recognition**, **Registration** and **About**. In case you have already registered your copy of *PenReader*, the window will not contain the **Registration** tab.

Standard



This tab contains the following elements to set:

- **Interface.** Use the pop-up menu to choose one of the available interface languages: English, French, German, Italian, Russian or Spanish.
- **Pen Width.** Using this menu, you can choose your line width. You will see this line while writing. Line width is in the range from 1 to 30 pixels. In “**Example**” item you will see the chosen pen width without quitting the settings box.
- **Line Colour.** Use this menu to choose your pen line colour. Press “**Choose**” to select a basic or a custom colour.
- **Relocatable language indicator.** By default you can use the immovable button on the main toolbar (to the left from the **PenReader** icon) to switch languages. To use the floating button, you must enable this feature. To move the floating button on the screen, press and drag it.

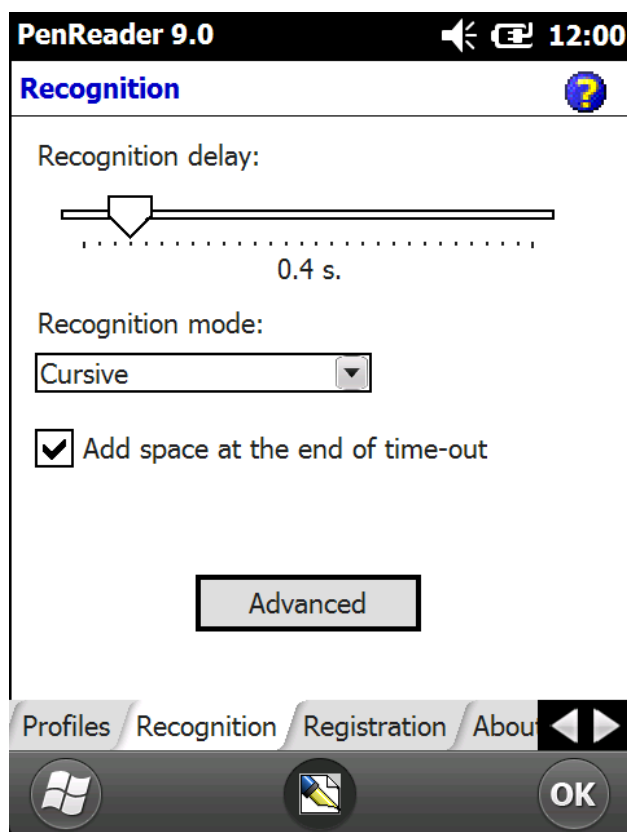
Profiles

A profile is a set of characters that **PenReader** can recognize at the moment. For example, English profile includes English letters, punctuation characters and macros. Profiles that correspond to regional settings of your device are activated by default. This provision is made in order to avoid difficulties that you can run across, if all 30 supported languages are active. For example, if your device has English regional settings, **PenReader** will have English profile and numerals or, if your computer has regional settings, different from English, **PenReader** will have English profile, a profile corresponding to your local language and numerals. You can view this in the “**PenReader current profiles**” window.

The following buttons for profiles management are situated in this window:

- **Add.** Press “**Add**” and choose the profile you want to add. To confirm your choice, press “**Done**”. To cancel your choice, press “**Cancel**”.
- **Edit.** To change a profile, press “**Edit**”. In order to add or delete character set in the profile, tap “**Add**”/“**Delete**” correspondingly. After tapping “**Add**” choose the set of symbols, which you are going to add to the selected profile. To complete adding, tap “**Done**”, to cancel – press “**Cancel**”. To quit the menu, press “**Ok**”.
- **Delete.** Using this button, you can delete any profile from the list of current profiles.

Recognition



Using this tab, you can adjust the following settings:

- **Recognition delay.** Recognition delay is the interval of time, which takes *PenReader* to start the recognition process after you lose touch with the screen of your device and have not touched it again during this time. Press this menu item, and in the opened screen, you can shift the slider to set the best time. This function allows to set recognition time-out ranging from 0.1 to 3 seconds, by default it equals 0.4 seconds. Please, note that various recognition modes may require different delay time for the best result.
- **Recognition mode.** There are four recognition modes available in the program: *Letter-by-Letter*, *Cursive*, *Separate* and *Smart input* (see “**Recognition modes**” section for detailed instructions). Using this menu item, you can set the most appropriate for you mode.
- **Add space at the end of time-out.** If you enable this feature, *PenReader* will automatically add a space after each entered word in *separate* and *cursive* recognition modes. In case the “**Prompt**” feature is activated, spaces will be added only after you select a word from the range of possible ones. This option is disabled for *letter-by-letter* and *smart input* modes.
- **Advanced.** You can make the recognition even more precise by adjusting several more parameters in accord with the particularities of your handwriting. To do this, press the “**Advanced**” button, which open an auxiliary window of settings. This window includes the following items: *Copy-book*, *Dictionaries* and *Prompt*. (see “**Advanced recognition settings**” section for details).

Registration

The main window of **PenReader** contains this tab, only if you have not registered your copy of the program yet. This tab can also contain messages that the demo-period has expired (if you used **PenReader** in demo-mode) or that the program has been successfully registered (right after the registration procedure).

To register **PenReader**, press “**Register**” button and enter the registration code that was sent to you after purchasing. To return to the program interface without entering the code, press “**Ok**”.

Press “**Buy**” to buy the program using your device (Internet connection is required). Within a few hours you will receive the registration code to register the program.

About

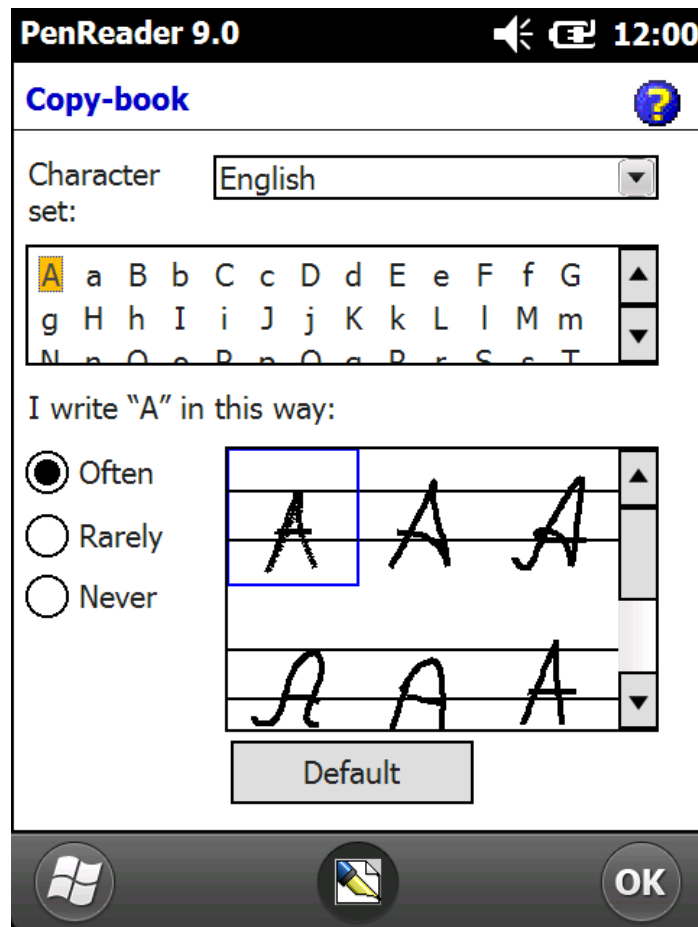
The “**About**” section provides information concerning **PenReader** interface, its core version, as well as the company-developer profile and useful links.




Advanced recognition settings

Additional settings window contains the following sections:

- **Copy-book.** To adjust **PenReader** to your handwriting press the “Adjust” button in this section. You’ll find detailed information in the “**Copy-book**” section.
- **Dictionaries.** To adjust built-in dictionaries press the “**Adjust**” button in this section (see “**Dictionaries**” section for details).
- **Prompt.** From the list in this section you can select frequency of pop-up tips with recognition variants. See “**Prompt**” section to obtain detailed information.

Copy-book



Copy-book is a very specific and powerful tool of **PenReader** that helps to set the handwriting recognition system in accord with your personal handwriting characteristics. Using the Copy-book you can minimize the number of recognition mistakes. The use of the Copy-book is reasonable only in cases when different letters have very similar way of writing (shapes), which significantly complicates their recognition. For example, the writing  may be an obstacle in the process of recognizing what letter is written in this case, because there are handwritings that imply this letter to be “U” and in some handwritings this character can stand for “N”. That is why the Copy-book contains such writing pattern both for the letter “U” and the letter “N”. You only need to open the Advanced settings, press the “**Adjust**” button in the “**Copy-book**” section and find these letters in the corresponding **Character set** (this can be either language or special symbols). Variants of handwriting for the specified symbol will be shown below. You can identify the untypical for you way of writing and exclude it by choosing “Never” frequency. In particular, if you use the writing  for “N” letter, you need to find “U” in the corresponding language of the Copy-book, then tap this writing and choose “**Never**”. This simple procedure will minimize the number of **PenReader** recognition mistakes. One more example of such ambiguity is the pair of letters “L” and “E” in Roman alphabet. Both of these letters can be drawn as . Please, note that if in the Russian and Bulgarian languages you add a bottom and a top lines to

the letters “III” and “T” correspondingly – *m u*, the process of recognition will be considerably simplified for **PenReader**. In other cases the use of the Copy-book should be very careful, as it may negatively affect the quality of recognition. The Copy-book provides three variants of writing frequency: “**Often**” (set by default) “**Rarely**” and “**Never**”. To restore all default settings of the Copy-book tap the “**Default**” button.

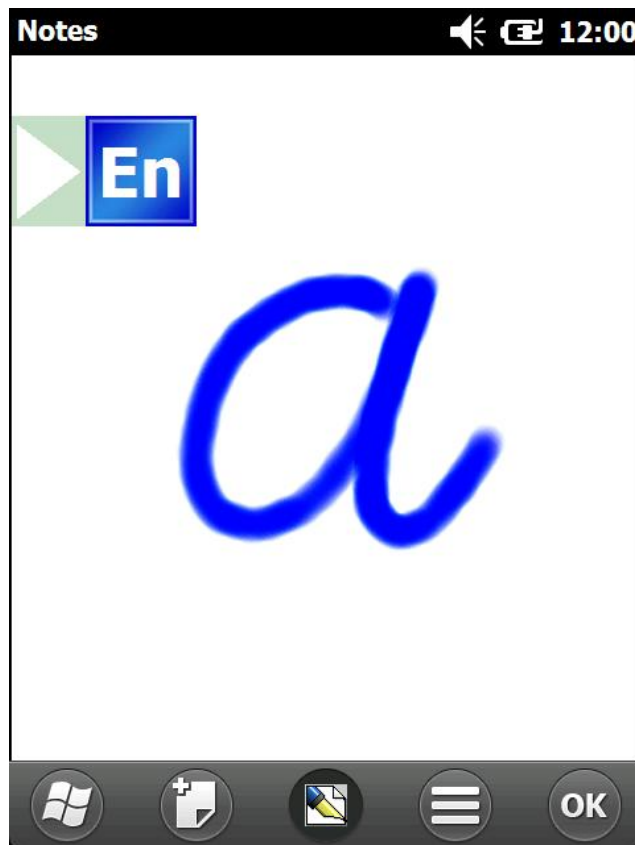
Dictionaries

While working with **PenReader** you can add new words to the program’s dictionary, as its built-in dictionaries may not contain all necessary words, such as slang expressions and special abbreviations or acronyms. Adding words that you often use to the dictionary will significantly enhance the recognition process. In order to add a new word, in the opened window of advanced settings press the “**Adjust**” button, located in the “**Dictionaries**” section, choose the language you need from the list, then press “**Add**” and input the required word in the opened field. To save, press “**Done**”. If you do not want to use dictionaries, you can disable them (this is possible only for **separate** characters recognition mode).

Prompt



This item allows you to set the frequency of tips demonstration when recognizing entered data. You can choose the following variants from the pop-up list: **Never**, **Rarely**, **Often** and **Always**. When writing, the program will offer you variants of words recognition, depending on the selected frequency. For example, if you use the **separate** characters recognition mode without the use of dictionaries, you will see variants of characters that you have entered, whereas, if you have chosen the **cursive** or **separate** text recognition with dictionaries, **PenReader** will demonstrate you spelling variants. The button “**Defaults**” chooses a word or a character that **PenReader** recognized on its own. You can add new words to the dictionary of the current profile using the button “**Add to the dictionary**” of a tip window (in case this profile does not contain a dictionary, this button will not be displayed, as in case of dialers).


Recognition modes



For the best result **PenReader** provides four modes of recognition, thus considering your handwriting characteristics. So the way you draw characters should always correspond to the mode, currently specified in **PenReader** settings. The modes are as follows:

- **Cursive.** This mode of recognition allows you to write characters, words and even sentences in a conventional for you way. The recognition process will launch as soon as you lose touch with the screen after recognition delay period has expired and in case you have not touched the screen during this time.
- **Letter-by-Letter** recognition. The mode implies that only one character can be recognized in a single recognition delay interval. Even if you are able to write several symbols in one interval, they all will be recognized as one character at the expiration of the recognition delay.
- **Smart input** A special mode that modifies the result while you are writing. Thus the recognition process will launch once you lose touch with the screen without considering the delay interval. In case you draw one character in a several strokes and the time interval between drawing each stroke is less than the recognition delay time, the result will be automatically modified. For example, if at first you draw a right slash “/”

 and then add a tick “√”  , **PenReader** will recognize a right slash at first and then modify it to the letter N. In case you add a left slash

“\”  , the ultimate result of recognition will be changed to the letter M.










Note that the interval between entering these symbols should be less than the delay time.







- **Separate.** This mode should be used in case each stroke that you write is a separate character. Therefore, you can draw several strokes that will be recognized as separate letters at the expiration of the delay time in this mode.

The **cursive** mode is set by default. If you input letter by letter, we recommend using **letter-by-letter** recognition or smart input. If you write words with separate characters, please, use **separate** recognition mode. In case you connect letters in words, the most appropriate recognition mode for you is the **cursive** one.

Useful macros

PenReader provides you with one more possibility to make its use even easier by using macros, which will save your time and automate some commands. The macros are as follows:

-  is used for a point. The crossed circle is drawn instead of a regular point, for **PenReader** to distinguish the point from other characters that can be written in a similar way, such as “c”, “o”, “-” etc. The use of this macro is recommended only in the **separate** characters recognition mode, because when writing several characters at a time **PenReader** can easily recognize points drawn conventionally.
-  is used for a comma. This symbol should be drawn in a separate time-out (the same as a point) in order to avoid confusion with other characters. The use of this macro is recommended only in the **separate** characters recognition mode as well.
-  is used for a space. This macro looks like a double horizontal line that should be drawn at first from left to right and then from right to left, preferably with the minimum angle between the two lines. The dot in the screenshot shows the start point of drawing.
-  is used for a dash. This line is drawn from left to right .
-  is used instead of Enter. Use this macro to go to the next line.
-  is used for deleting (Backspace). You can use this macro to delete both separate characters and groups of characters. You need to select all characters that you would like to delete and draw this macro. It should be written in a separate time-out.
-  is used for deleting without waiting a time-out. This macro corresponds to the previous one, but you do not have to wait for the expiration of a whole time-out. If you draw this macro, the previous letter will be immediately deleted.
-  and  are used for tabulation. The use of this macro corresponds to that of the Tab key on your keyboard. There are two methods of writing this macro, but anyway, horizontal lines should be two or three times as long as vertical elements.

-  is used to set the upper case. This macro is used as the Shift button of your keyboard. It looks like as a vertical line drawn bottom-up right before the character to be recognized in the upper case. For example, to make the letter “a” capital, you need to draw . Moreover, this macro can be used to set the size of a lowercase letter and the input of a point or a comma. This means that you can write a separate point by drawing a combination of  and a comma – by drawing .
-  is used to make all succeeding characters uppercase. This macro corresponds to the CapsLock button of your keyboard. It looks like a vertical line drawn bottom-up and then top-down. The dot on the screenshot shows the start point of drawing. If you write this macro for the second time, **PenReader** will return to the lowercase characters recognition.
-  is used to switch **PenReader** current profile. This macro should be drawn in a separate time-out.

Useful Tips

- If **PenReader** launches recognition process before you complete the word, increase the Recognition Delay. See “**PenReader Settings>Standard**” section for details.
- To make **PenReader** user-friendly, use “Copy-book” to adopt the program to your handwriting. For additional information, see “**Copy-book**” section.
- Use macros to enter formatting characters and punctuation marks. You can find detailed information in the “**Useful macros**” section.

Customer Support Service

Our Customer Support Service:

- Provides users with the required reference on all the products developed by the company;
- Consults users on software installation, functionality and usage issues;
- Offers prompt assistance in solving problems that arise while using our software;
- Will gladly accept your feedback on our software and suggestions on its further improvement.

How to get a quick support

To get a free support, use contacts specified on our official web site:
<http://www.penreader.com/support>.

You can also visit our Knowledge Base:

<http://support.penreader.com>.

Here you will find answers on Frequently Asked Questions (FAQ).

We will do our best to help you.