

Penpower Chinese Expert User Manual

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Penpower Technology Ltd.

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There may be newer versions of the software that was released during or after this product's manufacturing date. If the content in the User Manual differs from the on-screen interface, please follow the instructions on the on-screen interface instead of the User Manual.

Chapter 1 Product Features

1.1 Product Features

Penpower Chinese Expert provides a comprehensive Chinese learning environment by immersing you in a Mandarin listening and speaking environment. Penpower Chinese Expert lets you learn Mandarin from any source including web sites, books, newspapers and magazines.

- **Listening comprehension.**

We employ the latest TTS (Text To Speech), and intelligent syntax technology, so you can listen to the correct pronunciation of single characters, phrases, or sentences. Penpower Chinese Expert can also record pronunciation from real people. You can hear real pronunciation at any time.

- **Reading**

Have trouble reading books, newspapers or magazines on hand? Input them into your PC, our software will show you everything about the Chinese characters such as the pinyin/zhuyin, their radicals, their total number of strokes, and their meanings in English.

- **Speaking**

With our speech recognition technology, you can practice speaking Chinese phrases or taking quizzes with your PC and be confident that you sound more and more like a native Chinese speaker after each session.

- **Writing**

We will show you how to write any Chinese character in the correct stroke order. We also provide you with several different inputting methods for your composing pleasure: hanyu pinyin, zhuyin or strokes.

- **Translation**

We use a state-of-the-art machine translation module for your exploration of Chinese and English. You can translate between Chinese and English by word, phrases or whole sentences.



1.2 Version Introduction

1.2.1 Writing Pad Version

With the writing pad, you can write or modify any Chinese text easily and use Penpower Chinese Expert for listening comprehension, reading, speaking, writing, and translation.

For East Asian languages, handwriting is the most natural way to enter characters into a computer. If you do not know any keyboard-based input methods, such as hanyu pinyin, or zhuyin, then inputting by handwriting is definitely for you. Please refer to Chapter 5 Writing Pad Version.

1.2.2 Pen Scanner Version

By integrating WorldPenScan (pen scanner), you can fast scan any document into Penpower Chinese Expert and utilize all the listening, reading, speaking, writing, and translation features this software has to offer.

The included WorldPenScan can scan and recognize Traditional Chinese, Simplified Chinese and English into your computer via the USB interface. Effortlessly scan in with the transparent scan tip. Whatever you see, you can scan. Please refer to Chapter 6 Pen Scanner Version.

1.2.3 Standard Version

Penpower Chinese Expert Standard Version is a complete Chinese learning tool. You can utilize all the listening, reading, speaking, writing, and translation features and learn Chinese fast and easy. It also provides online and offline activation. Let you learn Chinese anytime and anywhere.

Penpower Chinese Expert Standard Version is pure software. You can buy it in our online store or download the software and buy the “Product ID” to finish activation procedure.

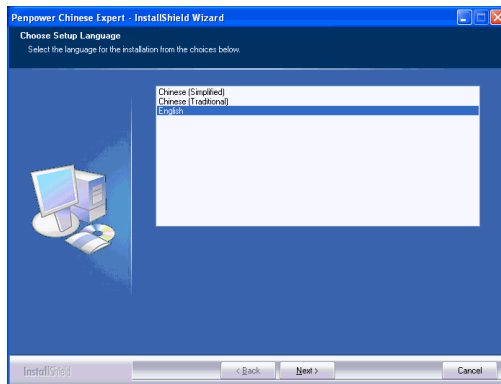
Chapter 2 Installation

2.1 System Requirements

1. Intel Pentium CPU or above
2. 64MB RAM (128MB RAM recommended)
3. 150MB disk space
4. Windows 7/Vista/XP/2000
5. USB port

2.2 Installation

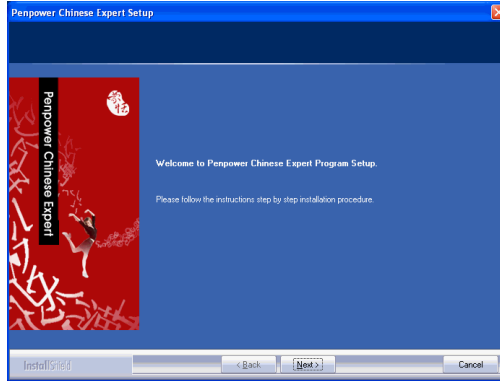
1. Insert Penpower Chinese Expert setup CD into the CD-ROM drive. The installation program will start automatically. Please select an installation language and click [Next] to install.



Note: Before installing the Penpower Chinese Expert on the Windows 2000/XP English operating system, you must enable the Traditional or Simplified Chinese encoding support under Regional and Language Options on the Control Panel. The process for setting up Chinese language support is slightly different for Windows 2000 and Windows XP. See Section 4.2 Language Settings for English Environments for details.



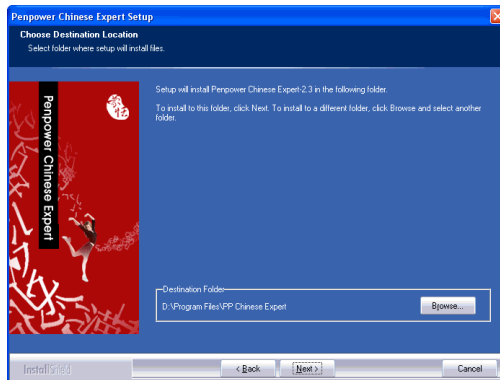
2. Click [Next] to install.



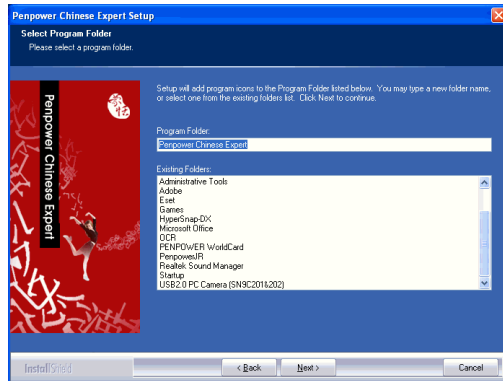
3. Read the license agreement, select [I accept the terms of the license agreement]. Click [Next] to continue.



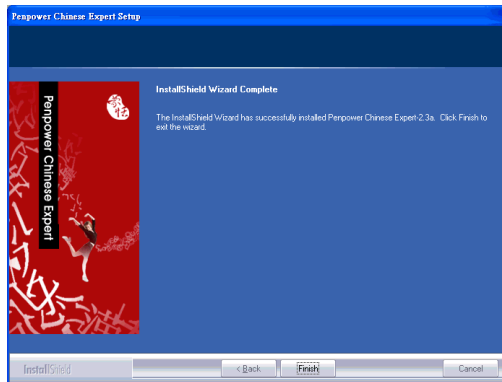
4. Select the destination location folder and click [Next].



5. Select a program folder and click [Next].



6. Click [Finish] to finish the installation.



Note: If your software is an older version, please update to the latest version. You can choose either [Remove now, and exit setup program.] or [Remove later, and exit setup program.] to continue using your current version.

Note : If you install the Penpower Chinese Expert Standard Version, please follow the below instructions to activate your product;

If you install the Penpower Chinese Expert Writing Pad Version, please processed to Chapter 5. Refer to 5.3 "Install Penpower Jr. ";

If you install the Penpower Chinese Expert Pen Scanner Version, please processed to chapter 6. Refer to chapter 6.3 "Install WorldPenScan".



7. Fill in the **Product ID**, **Name**, **Email** and **Phone no.**, and then click [**Activate Software**] to activate the **Penpower Chinese Expert**. When the activation is successful, we will send you an email.

PCE Software Activation

Online Activation
Please input the following information and connect to the Internet for activating the software:

Product ID(Product ID is stuck on the CD) 000000000000
Name(required) John
Email address(required) sales@penpower.net
Phone no.(required) 5108976600

Activate Software Close

If you have activated with this computer before and lost your Product ID, please click the 'Get Activation Code' button.

Get Activation Code

Manual Activation
If you are unable to activate online, please activate it manually.
Please connect to the activation website below, and input the 'Hardware ID' and 'Product ID' to get the activation code:

http://www.penpower.net/active_pce.asp

Hardware ID K097ERXC5TEMF7W
Activation Code

Activate Software

Note:

1. *The Product ID is stucked on the installation CD.*
2. *If you have ever activated the PCE on your computer before, you can just click the [Get Activation Code] to activate the software.*
3. *In case the activation fails, visit http://www.penpower.net/pce/active_pce.asp. Obtain a different Activation Code, enter the code in the respected area, and then click [Activate Software] to activate manually.*


Chapter 3 Using the Chinese Expert

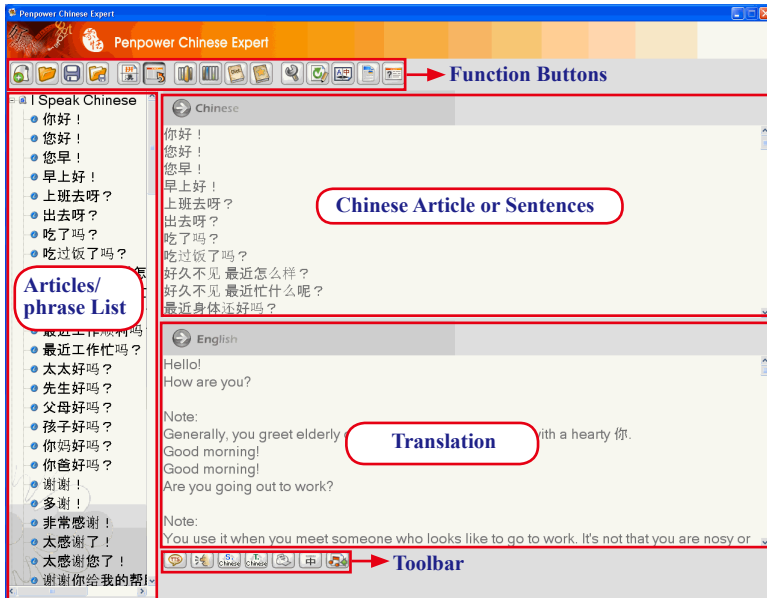
3.1 Starting Penpower Chinese Expert

After the **Chinese Expert** software is installed, there will be a new  shortcut on the desktop. Double click this icon to start the **Penpower Chinese Expert**.

3.2 Introduction to the Main Interface

3.2.1 Translation Mode

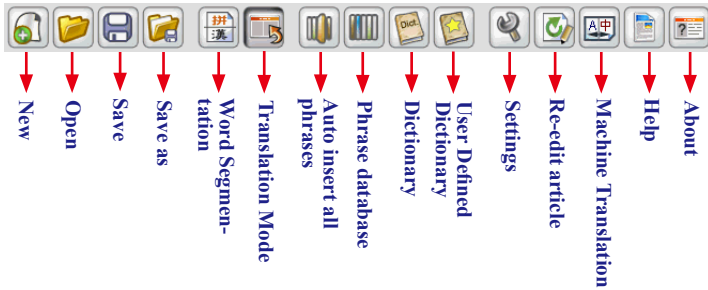
When the Chinese Expert is runs for the first time, the articles **I Speak Chinese** and **100 Chinese words** appear by default. Click the **I Speak Chinese** article to enter the default Translation Mode .



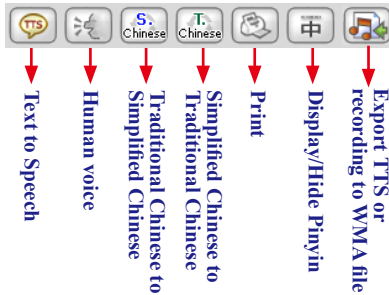
Note: The English pane displays the machine-translated content and is provided for reference only. Click the individual sentence headings on the left to open them in the Chinese pane. You can also edit the translation in the English pane directly.













Function Buttons



Toolbar



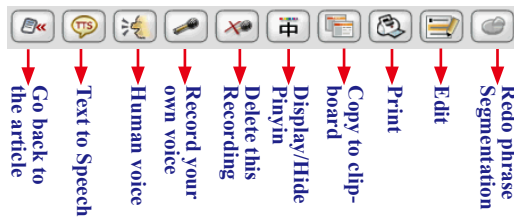
1. **Text to speech** : Click the **Text to speech**  button to hear the program speak the text in the **Chinese** panel. The Text-to-speech function is a great way for you to practice your Chinese listening comprehension skills. The display subtitle feature is even more helpful by showing you what word is being pronounced during text-to-speech, so you can Click the **Text to speech**  button again to stop.
2. **Human Voice** : Hear a pre-recorded human voice speak the default Chinese phrases. Click the **Human Voice**  to hear the voice and click it again to stop.
3. **Traditional Chinese to Simplified Chinese**  and **Simplified Chinese to Traditional Chinese** : Convert the Chinese characters to Traditional Chinese or Simplified.
4. **Print** : Print the segmented article or sentence in the **Sentence Segmentation** area.
5. **Display/Hide Pinyin** : Display or hide the Pinyin in **Sentence Segmentation** pane.
6. **Export TTS or recording to WMA file** : Export the **Text-to-Speech (TTS)** synthetic speech or the recorded human voice data to a WMA file for convenient listening.

3.2.2 Word Segmentation Mode

Click the **Word Segmentation Mode**  button.














Toolbar




Note: When selecting a sentence from the left side, the Toolbar buttons will be different from that of when selecting an article. Refer to 3.2.1 Translation Mode for the explanation of the article toolbar.




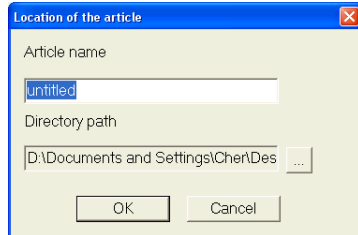
1. **Text to speech** : Hear the Chinese speech in the **Chinese** pane.
2. **Human Voice** : Hear a pre-recorded human voice speak the default Chinese phrases. Click the **Human Voice**  button to hear the voice, click it again to stop.
3. **Record your own voice** : Turn on the **Recorder**.
4. **Delete this recording** : Delete the recorded file.
5. **Display/Hide Pinying** : Display or hide the Pinyin in the **Sentence Segmentation** pane.
6. **Copy to Clipboard** : Converts all of the content in the **Sentence Segmentation** into video files and saves the files onto the clipboard. You can paste the files into any editing software such as Word, Excel, Paint, etc.
7. **Print** : Print the segmented article or sentence in the **Sentence Segmentation** area.
8. **Re-Edit** : Edit any character in the sentence.
9. **Re-Segment** : For manually constructed words that are not able to merge with other sentences, press the **Re-Segment**  button to re-segment the word. Please reference to **3.4.4 Re-Segment**.

3.3 File Management

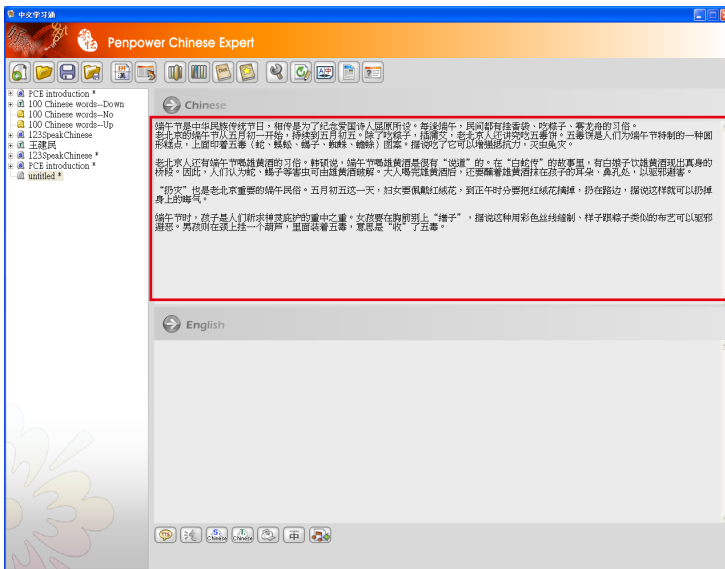
3.3.1 New Article


Click **New**  to open the **Location of the article** dialog box. Enter the article name and directory path, then Click **OK** to open a new article.

*Note: By default the new article is called **untitled** and has the **My Document** folder as its directory path. Click  to select a new directory path.*



Chinese content can be entered in the **Chinese** pane by typing in manually, or copying from another article.



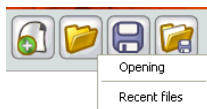
Note: When content is added, an asterisk () is appended to the article name. The asterisk indicates that the article has been modified and has not yet been saved. Click the **Save**  button to save the article and the asterisk disappears.*

*Tip: If you open new article, the **English** field is empty, if you need translation, please reference 3.8.4 Machine Translation of Whole Sentence or Article.*

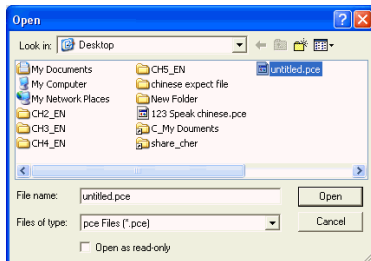


3.3.2 Opening an Existing File

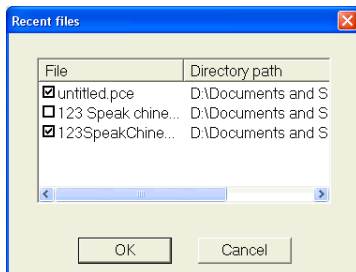
Click the **Open**  button to open an existing file or recent files.



If you select **Open**, the **Open** dialog box appears. Select one or more .pce files, then click **Open** to import its contents into **Penpower Chinese Expert**.

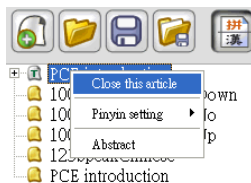






If you select **Recent files** the **Recent files** dialog box appears. All recently edited files are listed. Select multiple files and press **OK** to import all of the selected files into **Penpower Chinese Expert**.



3.3.3 Closing an article

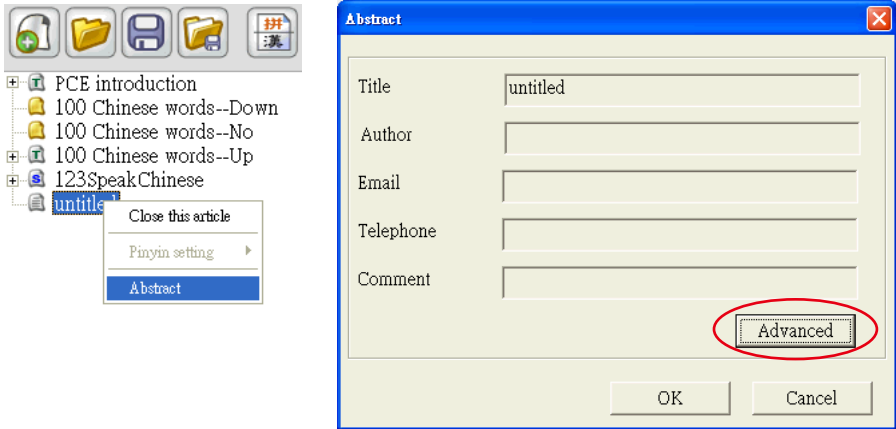
In the article pane right-click the name of the article. Click **Close this article** to close the article and clear its name from the article pane.



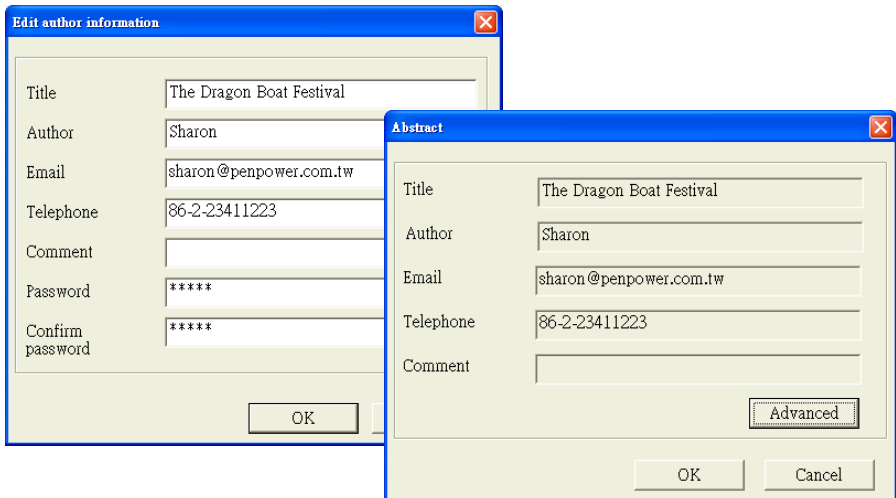
Tip: The Penpower Chinese Expert (PCE) automatically detects if an article is in Traditional or Simplified Chinese based on the number of Traditional and Simplified Chinese characters in the article. The PCE will display different images preceding the file name.  indicates that the PCE is not able to recognize if the file is Traditional or Simplified. When an article has more Traditional Chinese characters,  will appear to indicate that the article is written in Traditional Chinese. If there are more Simplified Chinese characters,  will appear. If the article has an equal number of Traditional and Simplified Chinese characters,  will appear.

3.3.4 Abstract

In the main menu, right-click on an article and select **Abstract** from the option list that appears. The **Abstract** dialog box will then appear. You can check for information related to the author of the article. You can then press **Advanced** to edit the information in the abstract.




In the **Edit author information** dialog box, you can modify article's **Title**, **Author**, **Email**, **Telephone**, **Comment**, **Password** etc. Upon completion, press **OK**. Return to **Abstract** dialog box and then press **OK**.






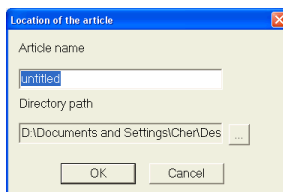
3.3.5 Save File

Modified articles that have not yet been saved have an asterisk (*) after their name to indicate that the article has been modified and hasn't been saved yet. Click the **Save**  button to save the selected file to the default folder in the .pce format. The asterisk will disappear.

Note: The Save command saves only the currently selected file.

3.3.6 Save as a New File

Click the **Save as**  button then select **Save as pce file** to open the **Location of the article** dialog box. Enter the article name and select the directory path then press **OK**. The selected article will be saved as a new file in the .pce format.




You can also click **Save as text file** to save the selected article as a new file in the (.txt) format. There are two format choices available: **Article format** and **Sentence format**.

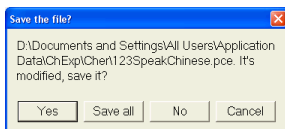


Note: If you use Hanyu Pinyin(standard tone) in the Sentence Segmentation pane then save it as a text file, Hanyu Pinyin may be displayed as random lines of code because of the used font may not be able to display Hanyu Pinyin. It is recommended to use a font like Times New Roman to display Hanyu Pinyin correctly.

Note: The Save as command saves only the currently selected article as a new file.

3.3.7 Close Chinese Expert


Click the **Close**  button in the upper right corner to exit Penpower Chinese Expert. If there are any unsaved modified documents, you will be asked to save them one by one before exiting. Click **Yes** to save each article or **Save all** to save all modified articles.

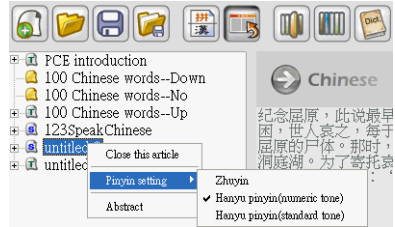


3.4 Sentence Segmentation

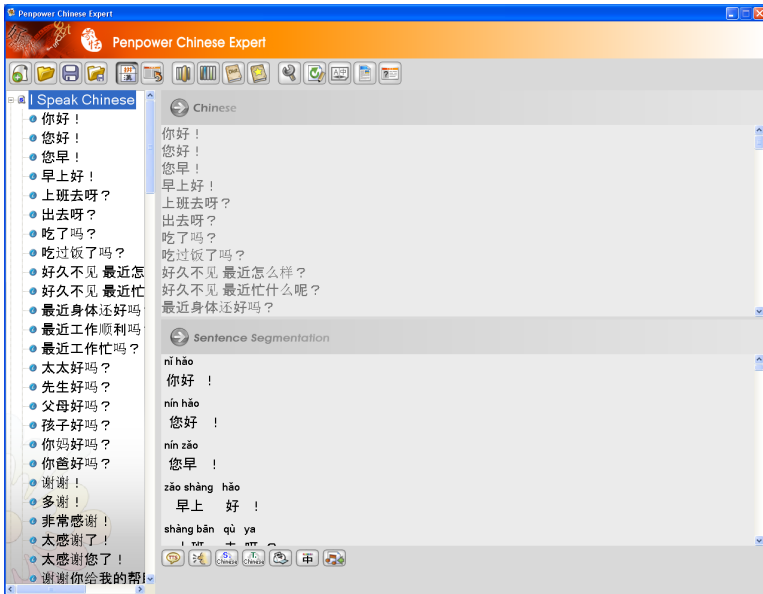
Sentences can be quickly split into segments of distinct words using the smart sentence segmentation technology to make learning words easier for you so you are able to understand the entire sentence.

3.4.1 Automatic Sentence Segmentation

Press the **Sentence Segmentation**  button, when the button looks indented, right-click desired article's name to launch option list. You can then change the Pinyin display format from the **Pinyin Settings** option. Upon completion, the software will display Chinese Pinyin in **Sentence Segmentation** from in accordance to your preferred format and then complete the sentence segmentation.



The **Pinyin Setting** can be set to **Zhuyin**, **Hanyu pinyin (numeric tone)** or **Hanyu pinyin (standard tone)**. If **Hanyu pinyin** is selected, the pinyin is displayed in the **English** pane. You can refer to this pane to learn the Hanyu pinyin for each character.

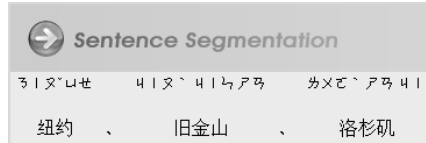




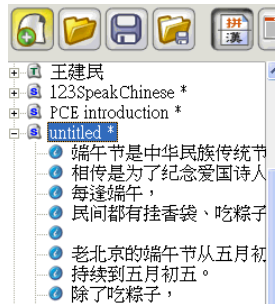
Selecting **Hanyu pinyin (numeric tone)** displays the Hanyu pinyin with numbers to indicate the tone of the character as displayed on the right:

Selecting **Zhuyin** shows the Zhuyin as on the right:

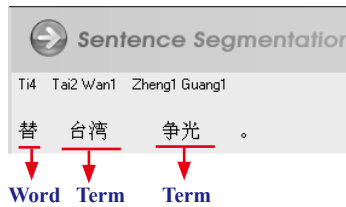
Zhuyin can help you learn the Zhuyin used for each word.



Penpower Chinese Expert automatically breaks the entire article down into individual sentences. Each sentence is then indexed on the left side in the article pane. Click an individual entry to display and edit the selected sentence. Though this function, you will be able to understand an entry sentence by sentence. You can also construct your own sentences, change words and make recordings.



The **Sentence Segmentation** command can separate words and terms from within a sentence. Separating terms and words from each other can help you learn the elements of the sentence to understand the meaning of the sentence.



3.4.2 Basic Chinese Learning Functions in the Sentence Segmentation Pane

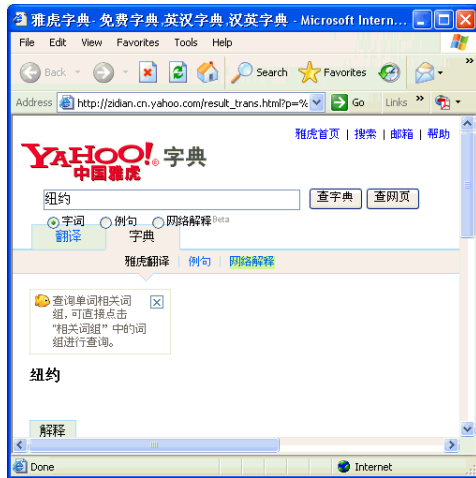
Tip-Show Translation and Note

In the **Penpower Chinese Expert Sentence Segmentation** pane, you can hover the cursor on any word or term to see the English translation and a few notes pertaining to the selected word or term.



Lookup Online

To look up the online translation of any word or term, hover the cursor on the word or term, and right-click and then click **Search on web** to connect directly to the YAHOO Dictionary web page.

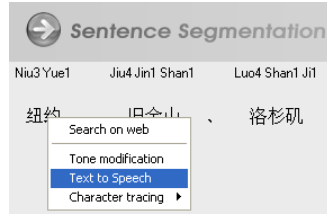


Note: If the word being translated is in Traditional Chinese, for example 爭光, you will be linked to the Yahoo! Taiwan Dictionary website. If the word is in Simplified Chinese, for example 争光, you will be linked to the Yahoo! China Dictionary website. If the words are written exactly the same in Traditional or Simplified Chinese, for example 昨天, the PCE will link to the Yahoo! China Dictionary website.



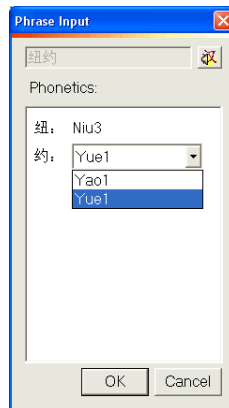
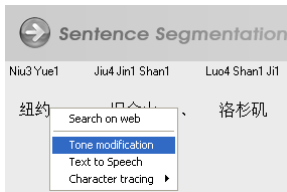
TTS Speech

The **Text-to-Speech** (TTS) synthetic speech technology allows you to hear words on-screen, allowing you to listen to the pronunciation and tones of the words. Hover the cursor on a word or term, right-click and then click **Text to speech** to hear the word or term.



Change Pronunciation

Certain words may have multiple pronunciations. 纽约, for example, has two possible tones for 约. Hover the cursor on 约 and right-click to bring up the menu. Click **Tone modification**. In the Phrase input dialog box, select a pronunciation for 约.



Show Standard Trace

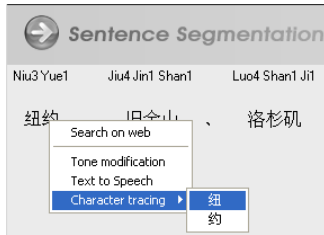
The **Penpower Chinese Expert** can display how Chinese characters in a step-by-step display. Showing the proper stroke order for any Chinese characters, you will learn how to properly write any character.

Hover the cursor on the word or term to see the trace. For a term such as 纽约 right-click the term to open the menu. Click **Character tracing**, then select the character 纽 to trace. An animation of how to write the character 纽 is shown along with other details about the character.

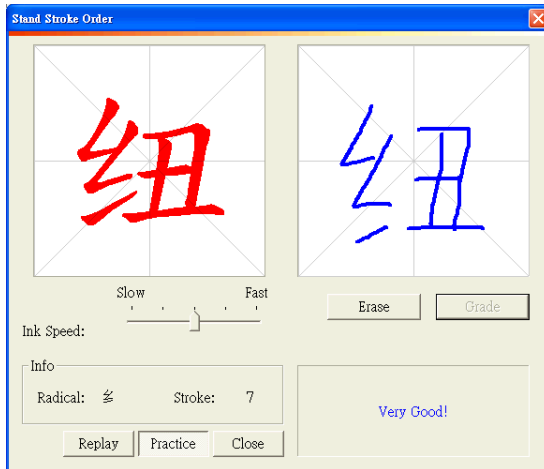
Use the **Ink Speed** slider to adjust the writing speed.

Word details show that its radical is 纟 and its stroke count is 7.

Click **Replay** to study the stroke order for the word again.



Click **Practice** to open the **Practice** dialog box where you can practice writing the character. When done, you can click **Grade** for the program to evaluate your written character. Click **Erase** to repeat the practice session.

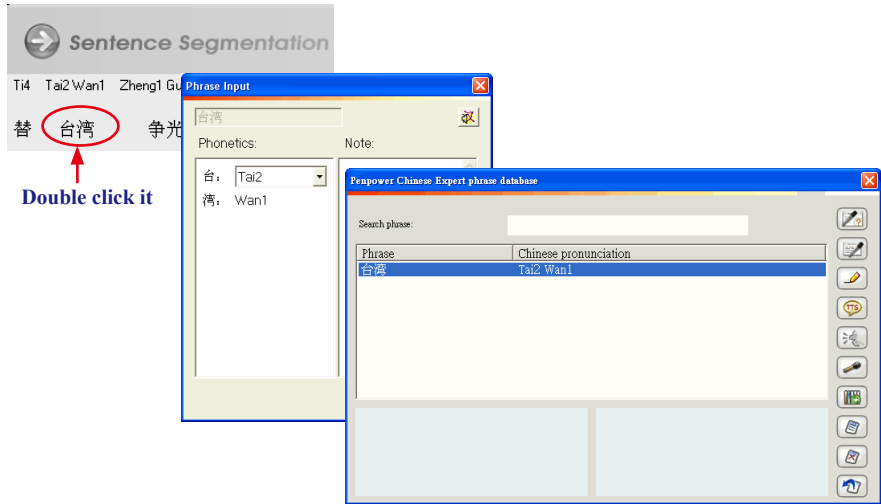




Quickly Open Phrase Database

Double-click a word or term to search for the word in the phrase database. For example, for the term 台湾, you can quickly open the phrase database to check the pronunciation, meaning, meaning, notes, or even modify the pronunciation of this term.

Note : *If the selected phrase is not in the phrase database, the Phrase Input dialog box will display. You can then add notes and the edit the pronunciation though the Phrase Input box. The edited phrase will then be added to phrase database.*




3.4.3 Build Phrase Manually

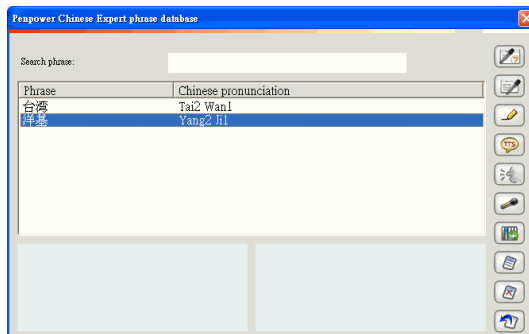
Certain terms such as names and other pronouns may not always be properly segmented. You must build the phrase with the **Build Phrase Manually** method to add it into the phrase database.

For example, 洋基 is the name of a baseball team, but the name is broken down into two separate words: 洋 and 基. You can build the phrase manually by combining the two into one term 洋基 and then adding the word into the database.

Click the sentence 这里有建仔代表洋基出战天敌天使队 in the article pane. In the Sentence Segmentation pane, the term 洋基 is split into two separate words 洋 and 基. In the Chinese pane, select and right-click 洋基. Click Build phrase to combine 洋 and 基 into one new term, 洋基.




Click the **Phrase database**  button to open the **Penpower Chinese Expert phrase database** dialog box. 洋基 is now listed in the phrases.





3.4.4 Redo Phrase Segmentation


Phrases built in one particular sentence will not be automatically combined in other sentences. Phrase building only combines words and terms in the current sentence. If the term appears in other sentences, use the **Redo phrase segmentation** command to quickly combine them all.

For example, in **section 3.4.3** we constructed a new term by combining words 洋 and 基 in the sentence 这里有建仔代表洋基出战天敌天使队 and added it to the term database. When clicking the sentence 终场洋基12:0大胜天使, 洋基 is still two separate words and not one single term. In this situation the **Redo phrase segmentation** command is available. Simply click the  button to redo phrase segment the sentence and combine 洋 and 基 into the term 洋基.




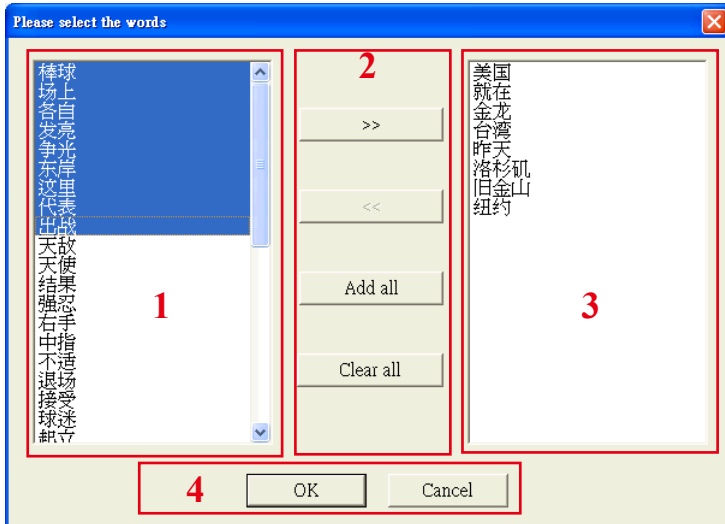
Note: The Penpower Chinese Expert comes with an extensive pre-defined term database and when manually constructed terms are assigned, they rank lower than terms already existing in the database. If a manually constructed term is a part of a larger default term, the Redo Phrase Segmentation function can't be performed on other sentences in the article that contain this term manually constructed term. For example, the default system term database already contains this term 天长地久. If you manually build the term 天长 in a certain sentence so that it is now two separate terms 天长 and 地久, you won't be able to use the Redo Phrase Segmentation command to separate 天长地久 in other sentences.


3.4.5 Print

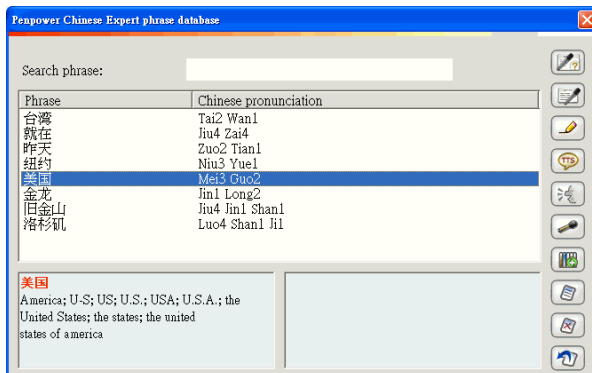
Click the **Print**  button to print the segmented article or sentence in the **Sentence Segmentation** pane.

3.5 Auto Insert all Phrases

Press the **Auto insert all phrases**  button, and the system will display a **Please select the words** dialog box. You can select one word at a time, or press the **Add all** button to import all of the words on the left column into the word database (self-select) on the right column, then press **OK**.

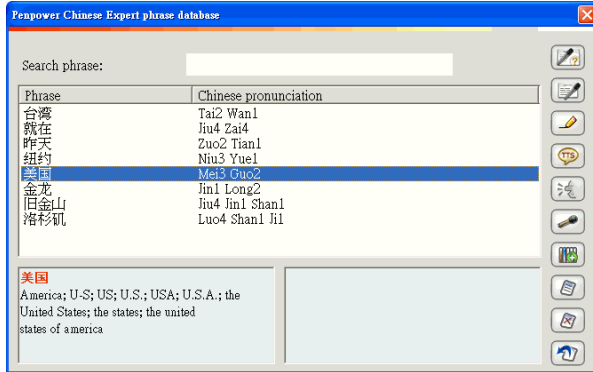


Click the **Phrase database**  button. In the **Penpower Chinese Expert Phrase Database** dialog box, you can see all of the phrases in the article now listed in the database.






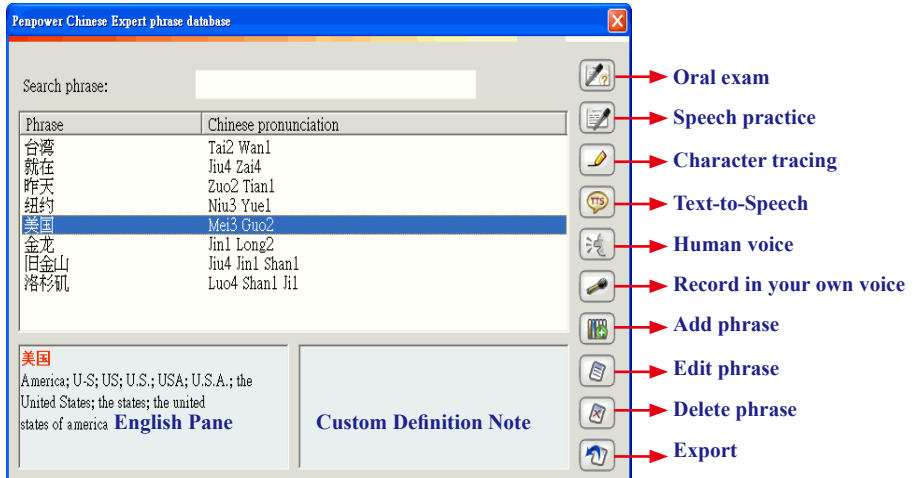
Note: The pronunciation system shown in the Chinese pronunciation area of the Penpower Chinese Expert phrase database dialog box depends on the Pinyin settings. If the Pinyin settings are set to Zhuyin, then Zhuyin is displayed; if set to Hanyu pinyin, then Hanyu pinyin is displayed.



Note: The phrases listed in the database apply only to the current article. All articles have their own independent database.

3.6 Phrase Database Management

Click the **Phrase database**  button to display the **Penpower Chinese Expert Phrase Database** dialog box.



Database sources

1. Terms added using the **Build phrase** command in a certain sentence within the article. (Please refer to **3.4.3 Build Phrase Manually**.)
2. Terms added through the **Auto insert all phrases** command from the current document. (Please refer to **3.5 Auto Insert all Phrases**.)
3. Terms added using the **Construct New Term** command in the Chinese Expert phrase database. (Please refer to **3.6.6 Add Phrase**.)
4. Terms created using the **Add Phrase** command from the Dictionary. (Please refer to **3.8.2 Lookup Phrase Translation in Dictionary**.)

English Pane

Shows the selected phrase and its English translation.

Custom Definition Note

You can use the edit phrase or construct phrase function to add your own notes.




3.6.1 Phrase Search

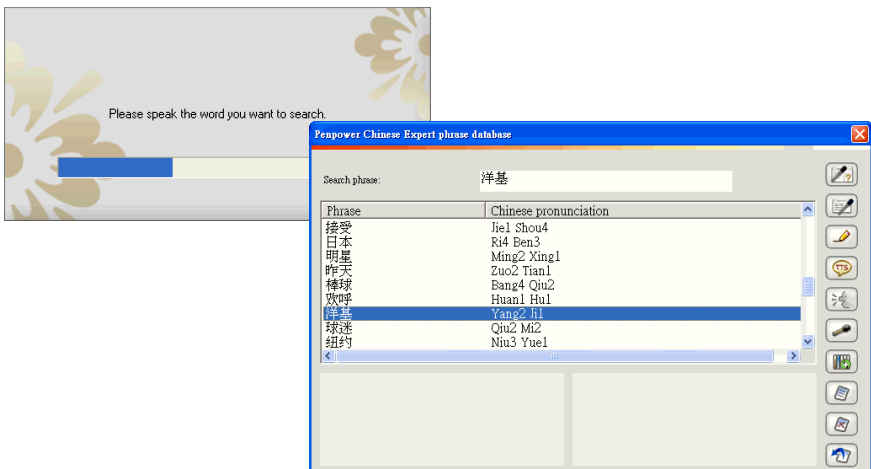
Text Search

Type the phrase to search for in the **Search phrase** box. If the phrase is in the list, after you have finished typing in the search phrase, it will be highlighted in gray. For example, after entering 洋基, the term 洋基 will be highlighted in gray.









Voice Phrase Search

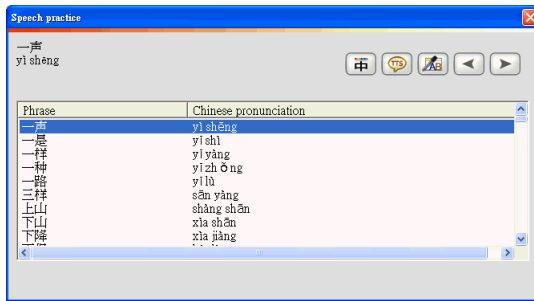
Click the **Oral exam**  button and the message **Please speak the word you want to search** appears. Say the phrase in Chinese. If you say the phrase correctly, the phrase will be displayed and highlighted in blue. For example, after saying 洋基, the term 洋基 is highlighted in blue.




3.6.2 Speech Practice

Click the **Speech practice**  button. In the **Speech practice** dialog box. Select a phrase to practice.

1. **Display/Hide Pinyin** : Display or hide the Pinyin of the selected phrase.
2. **Text to speech** : Hear the Chinese in the **Chinese** pane.
3. **Voice recognition** : Clicking this button will display the message **Please speak the word you want to search**. Say the selected phrase out aloud. If your pronunciation is correct, you will see **Pronunciation is correct**. If not, you will see **Sorry, your pronunciation is not correct, please try it again**.
4. **Previous phrase**  and **Next phrase** : Select the previous or next phrase and practice its pronunciation.



3.6.3 Character Tracing

Select a phrase such as 纽约 then click the **Character tracing**  button. Now click the character to lookup the trace for a character such as 纽. An animation of how to write the word 纽 is shown along with its stroke number and its radical. Use the **Ink Speed** slider to adjust the speed of the animation. You can click **Practice** for real-time writing practice.

For more details, please refer to the explanation in **3.4.2 Basic Chinese Learning Functions in the Sentence Segmentation Field-Standard Trace**.






3.6.4 Listen to Pronunciation


You can hear pronunciations of the selected phrase with either the **Text-to-Speech** or **Human voice** commands.

Text-to-Speech

Text-to-Speech (TTS) pronounces words using a computer-generated voice to help you quickly learn the pronunciation and tone of words.

Select a term such as 洋基, then click the **Text-to-Speech**  button to listen to its TTS pronunciation.

Human voice

If you have recorded a human voice saying a certain phrase or sentence, you can then choose to have it spoken using the **Human voice** command. For example, if you had previously recorded human speech for the phrase 洋基, click the **Human Voice**  button to hear it.






Note: For instructions on recording human speech refer to 3.6.5 Recording.

Note: You can adjust the speed of pronunciation. Refer to 3.3 Setting Speed of Speech.


3.6.5 Recording


You can add human speech for phrases and sentences to compare with the TTSvoice and for further repeated practice to improve the accuracy of your pronunciation.



Select a phrase such as 洋基, then click the **Record in your own voice**  button to turn on the recorder. Click the  button to begin recording. When you are done recording, click the  button to stop recording. Click the  button to listen to the recording and then click the  button to save the recording.



3.6.6 Add Phrase

Click the **Add phrase**  button. In the **Add phrase** dialog box enter a new phrase such as 王建民 and then click **OK**.

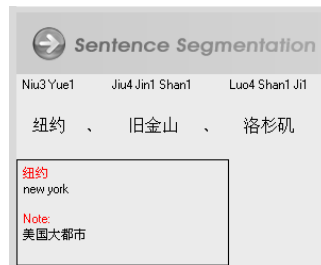
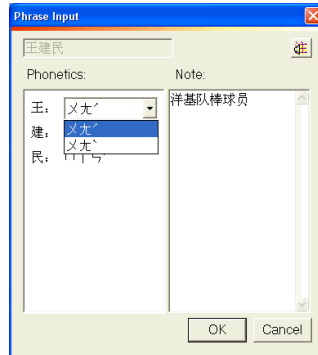
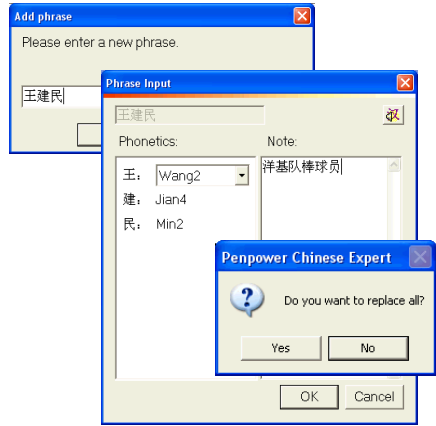
In the **Phrase Input** dialog box, correct any characters with the wrong pronunciation in the **Phonetics** field. You can also click the  button to hear its pronunciation. In the **Note** area, you can provide a note for the selected phrase.

When you have finished making changes, click **OK**. When asked **Do you want to replace all?** click **Yes** and the newly constructed phrase will be applied to the entire article. If this phrase appears in any other sentences in the article you can use the **Redo phrase segmentation** command to re-segment the sentence quickly.

In the Chinese Expert phrase database you will now see an entry for 王建民.


Note: If the Pinyin Setting is Zhuyin, the Zhuyin will be displayed. The  button is also changed to .

Note: When you hover the cursor over a term, in the Sentence Segmentation pane, its English translation will be shown (if available) as a Tip. Notes about the term will also be shown if available.






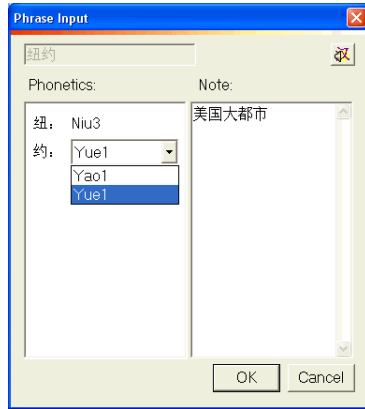
3.6.7 Edit Phrase

Click a phrase such as 纽约, then click the **Edit phrase**  button.


In the Note area, you can provide a note for a term such as 美国大都市 in the Phrase Input dialog box.

If there are any words with multiple pronunciations - 约 for example has two options - select the one you want. After making the change, click the  button to hear its pronunciation.

When finished, click **OK**.




3.6.8 Delete Phrase

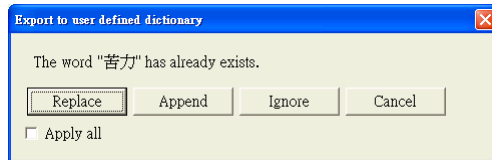
Select a term such as 王建民 then click the **Delete phrase**  button. Click **Yes** to delete the phrase.



3.6.9 Export

Press the **Export**  button and select **Export to user defined dictionary**. Close the **Please select the words** dialog box. All of the selected characters will then be included into the **user defined dictionary**. Please reference to **3.5 Automatic Inclusion of All Words**.

If the word you want to export to the **user defined dictionary** is already in the dictionary, a warning message will pop-up.



You can choose either,

Replace: The new word will overwrite the older word.

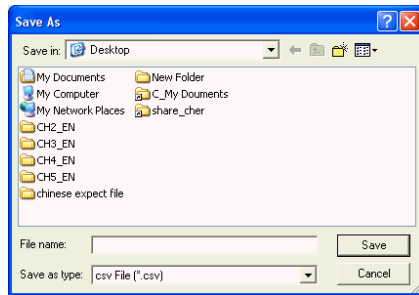
Append: The new explanation will be appended onto the old explanation.

Ignore: Keep the old word and explanation.

Cancel: The warning message will disappear and the exporting will be cancelled.

If you select **Apply All**, all of the options selected will be automatically applied for future cases.

If the you select **Save as CSV File**, a **Save As** dialog box will launch. Enter a file name and select where to save the file. Press **Save** and all of the words in the previous list will be saved as CSV files. Software such as MS Excel can open the CSV files and its content can be printed out via a printer for revision.







3.7 Pronunciation Practice

3.7.1 TTS Speech

The **Penpower Chinese Expert** uses TTS synthetic speech technology to help you with pronunciation in a fast and intuitive manner.






Click the **Text to speech**  button on the toolbar below the **English/Sentence Segmentation** pane to listen to the standard pronunciation for the entire document. The system will show you the pronounce words with highlights.



Tip: If you want to listen to a particular sentence, you can click on the sentence in the Chinese area, and then click the Text to speech  button.

3.7.2 Recording

For any sentence, you can record your own voice after segmentation for the given sentence. By comparing your voice with the standard TTS speech, you can train and correct your own pronunciation.

1. **Record in your own voice** : Turn on the **Recorder**. For instructions, see **3.6.5 Recording**.
2. **Delete this recording** : Delete the recorded file.
3. **Human Voice** : If a sentence has a voice recording, you can click the **Human Voice**  button to play it. Please refer to **3.6.4 Listen to Pronunciation** for more details.
4. **Go back to the article** : Return to viewing the entire article.

*Note: If the pronunciation is too fast or slow, the speed can be adjusted to suit your personal preference. For instructions on adjusting the pronunciation speed please refer to **3.9.3 Setting Speed of Speech**.*

3.8 The Translation Function

3.8.1 Phrase Translation Tip Display

After the article or sentence has been segmented, hover your cursor over a certain word or term in **Sentence Segmentation** pane. If an English translation exists for this word or term in the system database, it displays as a tool tip.





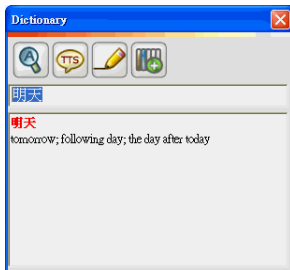
Notes:

1. If the words have notes, the notes will be shown after the translation.
2. If you have checked the “Show both Traditional and Simplified Chinese characters in the online translation window” option in Settings, the translation tip will display with both Traditional and Simplified Chinese characters.

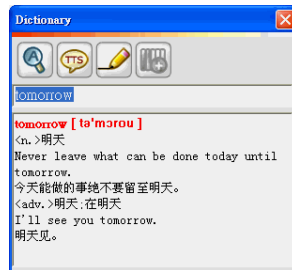
3.8.2 Lookup Phrase Translation in Dictionary

The **Penpower Chinese Expert** provides an extensive dictionary providing bilingual translations and usage rules.


First, click the **Dictionary**  button to open the dictionary. Enter the Chinese or English word/phrase to lookup then click the **Search**  button or press **Enter**. The phrase’s English or Chinese translation, definition and usage is then displayed.




Chinese to English




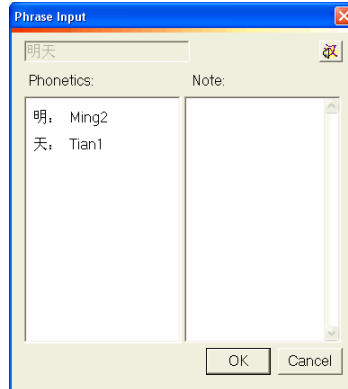
English to Chinese

Click the **Text to Speech**  button to hear the phrase’s Chinese or English pronunciation.

For Chinese words, click the **Character tracing**  button to view an animation of its how the character is writing, its radical and the number of stroke for the Chinese character.




To add a Chinese phrase, click the **Add phrase**  button. The phrase will be added to the database for the current article in the **Phrase Input** dialog box.

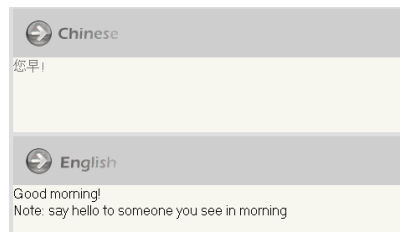


If this phrase already exists in the database, a reminder is displayed.



3.8.3 Manual Translation


Click the indented **Sentence Segmentation**  button to switch to the **English** pane. Click the sentence on the left to show that sentence in the **English** pane. You can now enter your own English translation for the sentence in the **English** pane.

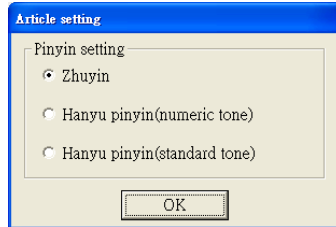


3.8.4 Machine Translation of Whole Sentence or Article

Note: The results from machine translation may not be entirely accurate so the translated content is only provided for reference.

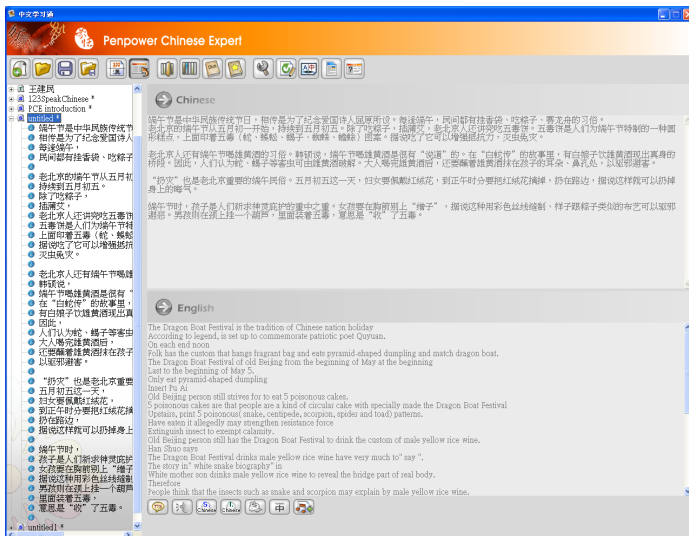
Translate New Article

Create a new article and then click the **Translation**  button. In the **Article setting** dialog box, select a **Pinyin setting** and click **OK**. The translation of the entire article is shown in the **English** pane.






Tip: Translation engine setting: Choose the PCE setting to support the Chinese article currently shown in the Chinese pane. If the text in the Chinese pane is in Traditional Chinese, set the translation engine to Traditional Chinese. If the text is in Simplified Chinese, set the translation engine to Simplified Chinese. This will improve the accuracy of the translation.

The **Penpower Chinese Expert** automatically breaks the entire article down into individual sentences. Each sentence is then indexed on the left side. Click on a particular sentence on the left to edit the sentence. This helps you learn Chinese one sentence at a time.




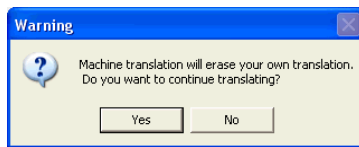


Translate Segmented Article

If sentence segmentation has already been performed on the article, you must first click the indented **Sentence Segmentation**  button to restore it to the  state. Now click the **Translation**  button and the translation of the entire article will appear in the **English** pane.

If you are viewing the article by sentence, only the current sentence will be translated.

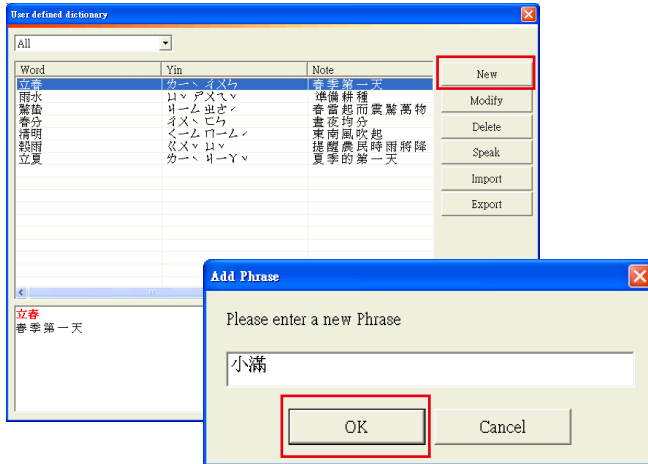
If a translation already exists and you click the **Translation**  button, you will see **Machine Translation will erase your own translation. Do you want to continue translating?** If you click **Yes**, then the previously translated sentences will be retranslated.



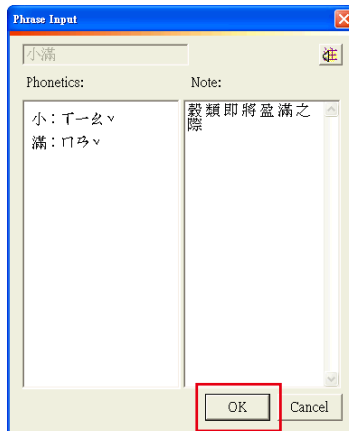
3.9 User defined dictionary

You can define your dictionary's functions at the main editing page of the **User defined dictionary** by adding frequently-used words or difficult words convenience.

1. Click the **User's defined dictionary**  button, open the **User defined dictionary** dialog box, select the **New** button, open the **Add phrase** dialog box. You can now input a new word.

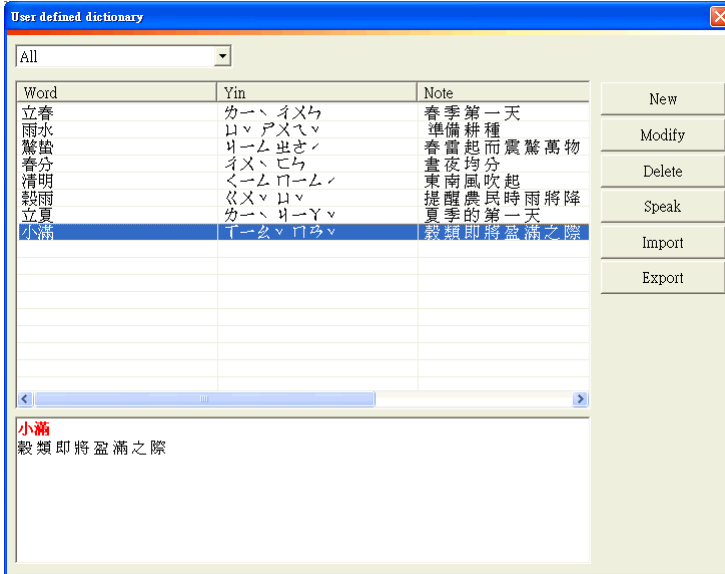


2. After creating a new word, press **OK**, then open the **Phrase Input** dialog box so you can modify the word's pronunciation. In the **Note** column, you can add comments about the word.






- After pressing **OK**, you can immediately see the new word in the window, and the word comments at the bottom.
- After selecting the word, select an option on the right (**Modify**, **Delete**, **Speak** etc). You can also **Import** or **Export** the content of your customized dictionary for future use.




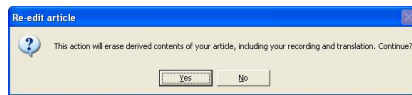
Note: If you would like to select multiples words, just hold shift and select the desired words.

3.10 Re-edit Article

The **Re-edit article**  can be used to clear all edits made to the content of the current article. Only the original Chinese text in the Chinese field will be retained.


Note: The Re-edit article command will clear only the segmentation in the Sentence Segmentation pane or the English translation in the English pane. Phrases already added to the phrase database will not be affected.

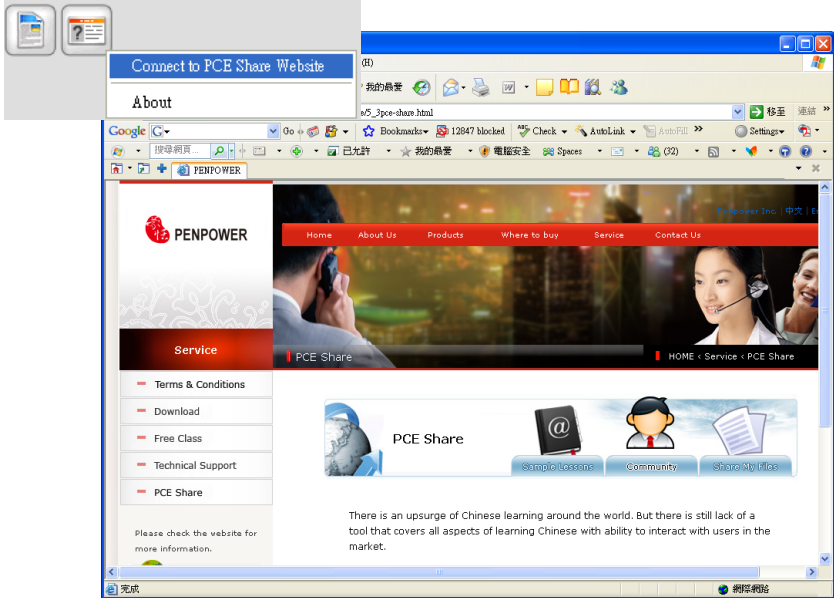
When you click the **Re-edit article**  button the reminder **This action will erase derived contents of your article, including your recording and translation, Continue?** displays. Click **Yes** to clear all edits made to the current article's content.






3.11 PCE Share

Click **About**  button and select **[Connect to PCE Share Website]**. You can connect to **Sample Lessons**, **Community** and **Share My files** on the PCE Share Website.

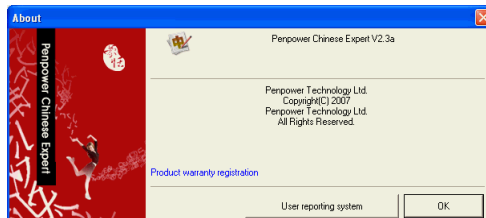


3.12 About

Click **About**  button and select **[About]** to open the About dialog. You can check your **PCE** version information here.

Upon choosing the **User reporting system** button, an Outlook page will pop out, you will be able to receive immediate trouble-shooting help online.

Click **[Product warrant registration]** to connect to the Penpower product warranty registration Website for ensuring your product warranty service.




Chapter 4 Settings

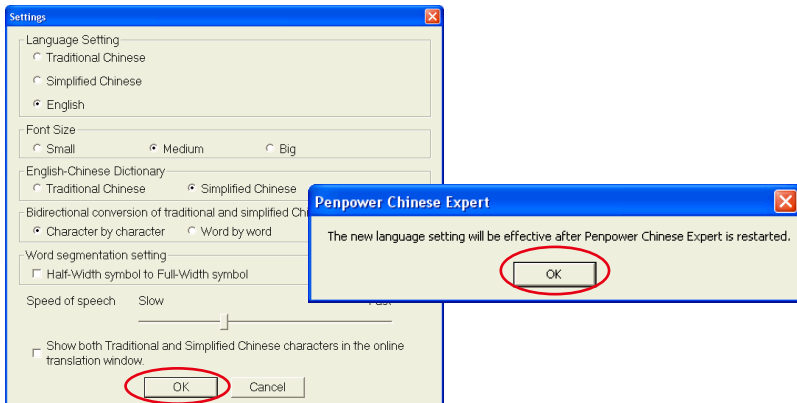
4.1 PCE Settings

4.1.1 Language Setting

You can view the **Penpower Chinese Expert** interface in Traditional Chinese, Simplified Chinese or English.

Click the **Settings**  button. In the **Settings** dialog box, you can choose between Traditional Chinese, Simplified Chinese, or English in the Language Settings area.

Click **OK** and the reminder **The new language setting will be effective after Penpower Chinese Expert is restarted** will be displayed. Click **OK**. If, for example, you choose **Simplified Chinese** as the interface language, when you restart the **Penpower Chinese Expert** the interface will be in Simplified Chinese.

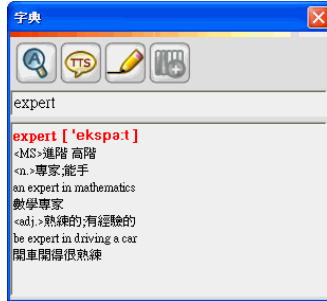


4.1.2 Font Size Setting

The **Chinese Expert** offers three font sizes: Big, Medium and Small. Choose the font size appropriate for your needs.

4.1.3 English-Chinese Dictionary Setting

When you use the dictionary and the word you want to check is in English, results can be displayed in accordance to your preferences (Simplified or Traditional Chinese). Take the following picture for example, if you want to check the meaning of the word “expert”, the displayed result will be in Traditional Chinese.



4.1.4 Converting Traditional and Simplified Chinese Setting

Bidirectional Conversion of Traditional and Simplified Chinese Setting provides two options: **Character-by-Character** and **Word-by-Word**. If you choose **Character-by-Character**, PCE will change the characters to either Traditional or Simplified Chinese, for example 電腦 will change to become 电脑. If you choose **Word-by-Word**, 電腦 will become 计算机.

4.1.5 Word Segmentation Setting

Due to the article's print layout, a Traditional Chinese article will be displayed in full-width punctuation, while English articles will be displayed in half-width punctuations. The PCE provides a **Half-Width symbol to Full-width symbol** function, allowing you to modify article punctuation to make article the layout organized.

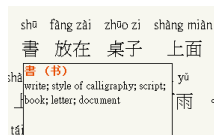
Note: Half-Width symbol to Full-width symbol settings will change after the next Sentence Segmentation.

4.1.6 Speed of Speech Setting

If the speed of speech is too fast or too slow, use the cursor to move the **Speed of Speech** slider to adjust the speed of speech.

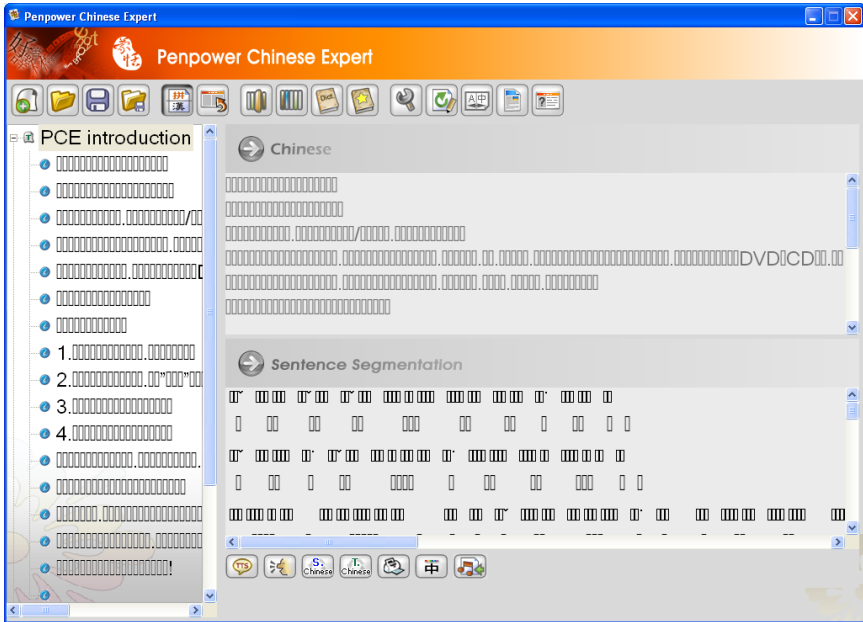
4.1.7 Displaying Traditional and Simplified Chinese characters

Check "Show both Traditional and Simplified Chinese characters in the online translation window." to display Traditional and Simplified Chinese characters in the online translation window.



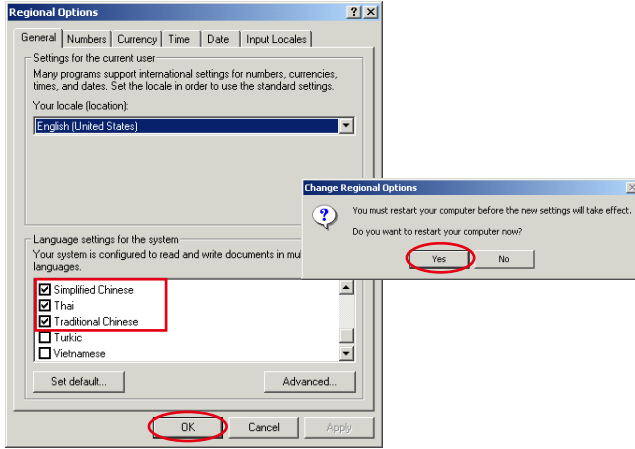
4.2 Language Settings for English Environments

If you use the Windows 2000/XP English operating system, the **Penpower Chinese Expert** may not properly display Chinese characters. For example, Chinese text entered into the **Chinese** pane appears as strange code, the sentence headings in the article pane appear as strange codes, or the Chinese characters in the **English** pane are displayed as strange codes. It is recommended to set up your operating system so it can support Chinese characters before using the **Penpower Chinese Expert** on Windows 2000/XP English operating systems.



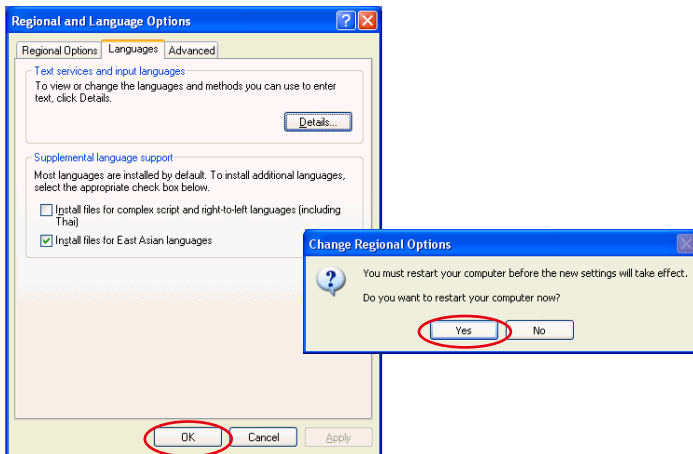
4.2.1 Windows 2000 English Operating System

Click the **Start** button, and then select **Settings**. Click **Control Panel**, double-click **Regional Options**, and then click the **General** tab. In the **Language settings for the system** area, check off **Simplified Chinese** and **Traditional Chinese**, and then click **OK**. You must restart the computer before the settings will take effect. Click **Yes** to restart the computer.



4.2.2 Windows XP English Operating System

Click the **Start** button, and then select **Settings**. Click **Control Panel**, double-click **Regional and Language Options** and then click the **Languages** tab. In the Supplemental language support area, select **Install files for East Asian Languages**, and then click **OK**. A notification to restart your computer before the settings will take effect will pop-up. Click **Yes** to restart the computer.



Chapter 5 Writing Pad Version

5.1 Hardware Specifications

- Dimensions: 110mm x 90mm x 22mm
- Weight: 110g (excludes USB cable)
- Active Pad Area: 55mm x 45mm



Handwriting/Mouse mode button:

Clicking this button switches between the handwriting and mouse mode.



5.2 Penpower Jr. Introduction

- **Unicode recognition kernel**

Supports the Unicode system to input Traditional and Simplified Chinese easily.

- **All-in-one recognition kernel of Big5 and GB**

The characters that can be recognized includes more than 23,000 Chinese words, 4941 words unique to Hong Kong, alphabet, numeric, symbols, Hiragana and Katakana.

- **Artificial Intelligence recognition kernel**

After you correct the recognition result from the candidate or AI dialog, the system will modify its recognition database to adapt your personal writing style. This will improve your recognition rate.

- **Full screen multi-words free writing**

You can write multiple words at one time before recognition based on the advanced character segmentation technology.

- **Free writing recognition kernel**

Not only can you write strokes in any order but even careless or illegible continuous writing can be recognized correctly.

- **Smart handwriting/mouse mode**

This brand-new Penpower mouse is more intuitive and easier to use. Additional symbols and symbol shortcuts are also provided for your convenience.

- **Other auxiliary functions**

Other useful functions such as related phrase, related word, special symbol table, homophone, dictionary, learning string, color inking and sound effect. all make input easier.

- **Word learning wizard**

An all-new word learning wizard makes it easy to set up and manage your learning dictionary.

- **Chinese-English translation**

Online dictionary with real-time translation between Chinese and English with 139,000 English to Chinese and 76,000 Chinese to English entries.

- **Transparent signature**

Superimpose your signature directly into a Microsoft Word or Excel document without changing the document layout. Or insert your signature into IE, Netscape and Eudora e-mails and send it to other people.

- **Pop-up bar**

The visual user interface is hidden but always available. The function tool bar pops upon the word where the cursor is.

- **Inking on MSN Messenger**

If you have MSN Messenger 6.1 or above installed, you can transmit handwriting and hand-drawn graphics through MSN Messenger for that extra personal touch.

- **Fast User Switching**

Windows XP/Vista Fast User Switching is supported so every user can have access to their personal settings.

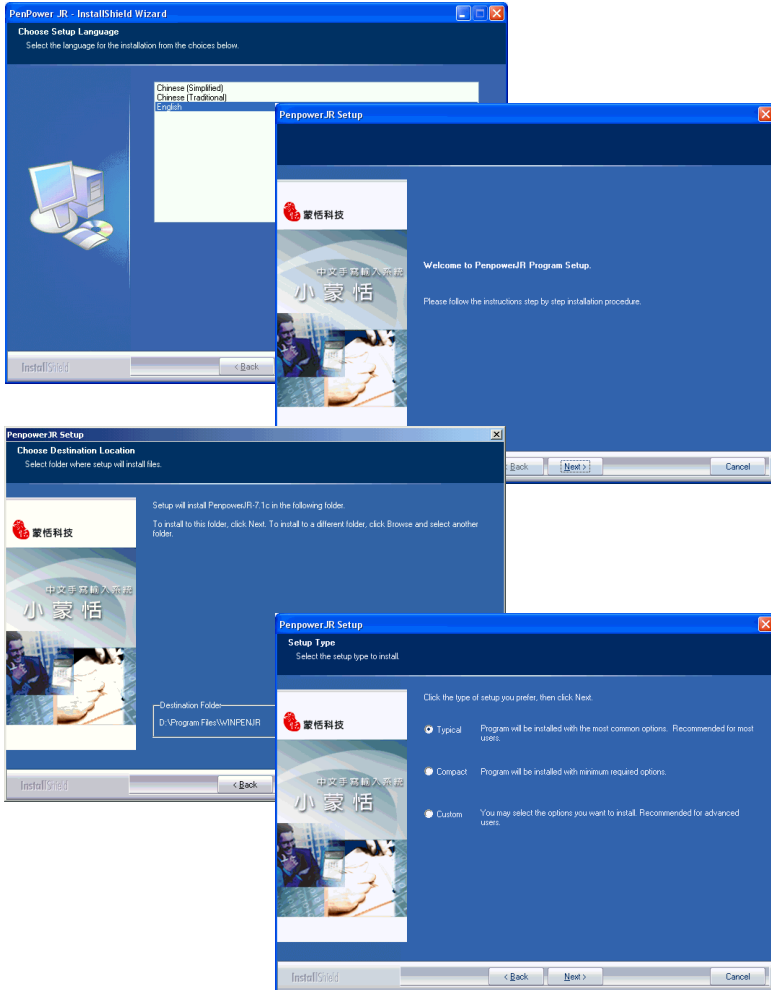
5.3 Installing the PCE and Penpower Jr.

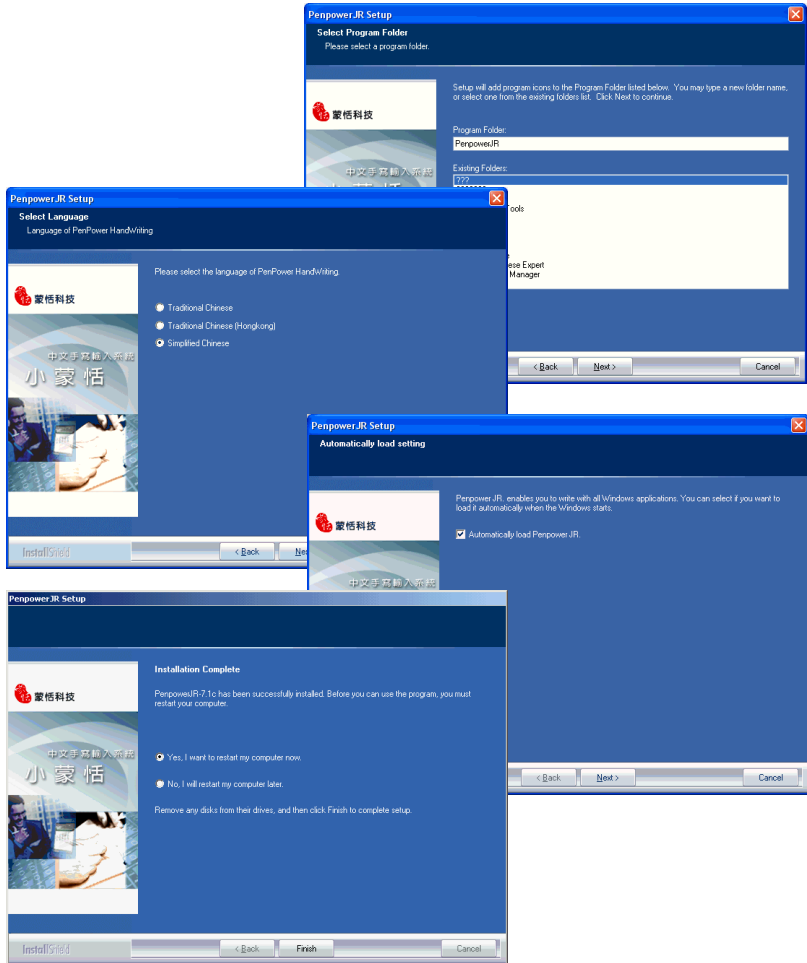
Insert the **Penpower Chinese Expert** setup CD into the CD-ROM drive, and the system will automatically start the setup. Select [**Penpower Chinese Expert**]. Please refer to Chapter 2 for more details.





Installing the **Penpower Chinese Expert** also automatically installs the **Penpower Jr.** You can also install the **Penpower Jr.** by selecting the [**Penpower JR**] option. Select the language version you want to install, then click [**Next**]. Follow the instructions on screen and carry out the installation process as directed. When installation is completed, restart your computer.





Note: You can select between three types: typical, compact, or custom.

Note: You can select what language you would like the Penpower Jr. to recognize.


Note: You can have the handwriting software start up when the windows starts.

Please connect the touch pad via USB port.

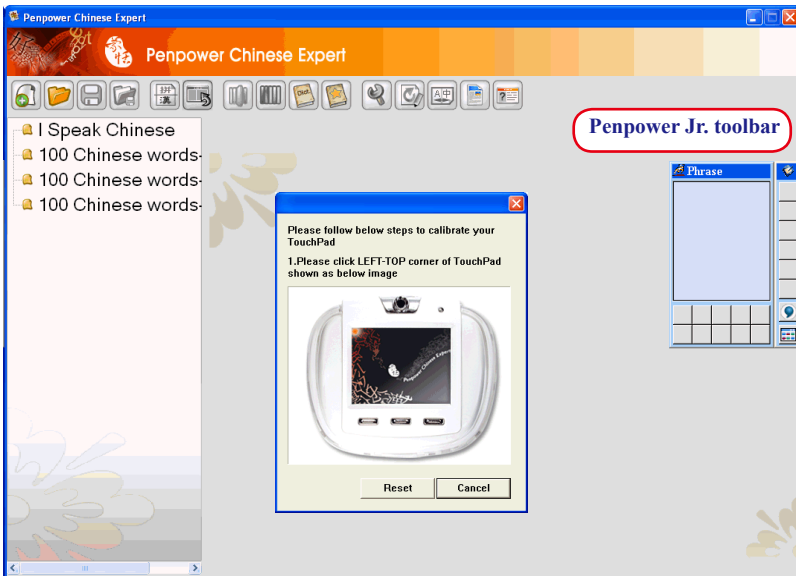


5.4 Starting the Penpower Chinese Expert

Note: Before installing the Penpower Chinese Expert on the Windows 2000/XP English operating system, you must enable the Traditional or Simplified Chinese encoding support under Regional and Language Options on the Control Panel. The process for setting up Chinese language support is slightly different for Windows 2000 and Windows XP. See “Section 3.13 Language Settings for English Environments” for details.

After the **Penpower Chinese Expert** software is installed, there will be a new  short-cut on the desktop. Double-click this icon to start the **Penpower Chinese Expert**. Or click the **Start** button, and then select **All Programs**. Select the **Penpower Chinese Expert** and then Select the **Penpower Chinese Expert**.

When the **Penpower Chinese Expert** software is opened, the **Penpower Jr.** starts as well. When using the **Penpower Jr.** for the first time, a calibration dialog box will appear to ask you to calibrate the touch pad. Tap the four corners of the touch pad in a counterclockwise direction from the top-left corner.



Note: Please refer to Chapter 3 to learn how to use the Penpower Chinese Expert.

5.5 Touch Pad Operation

1. **Move:** Place the pen on the touch pad, and then move it on the panel gently.
2. **Click:** Press the pen down on the surface of the touch pad and lift.
3. **Dragging:** Press the pen down on the surface of the touch pad lift quickly, and then press down again. On the second touch move the pen on surface of the touch pad.
4. **Double click:** Press the pen down on the surface of the touch pad quickly. Do this twice in a deft manner.



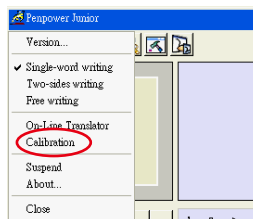
5. There are three buttons on the touch pad. In **Mouse** mode the left and right buttons have normal mouse functionality and the middle button is defined to switch between pen mode and mouse mode. In **Pen** mode the left button is used for error correction. When you tap the left button, the latest recognized result is replaced with the next candidate word to let you correct the result quickly without switching to **Mouse** mode.

5.5.1 Calibration

When the **Penpower Chinese Expert** starts, the **Penpower Jr.** starts as well, so you are able to write right away.

If the inking you write is not centered on screen, you need to calibrate your touch pad to remap the active area.




1. On the Mouse menu click **Calibration** to start the touch pad calibration program.
2. Tap the four corners of the touch pad starting from the top-left in a counter-clockwise direction.



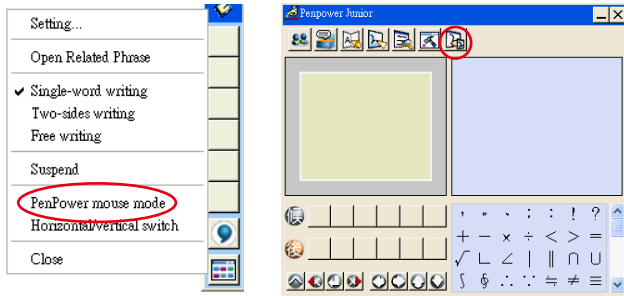


5.6 New Handwriting/Mouse Mode

5.6.1 Switching Modes

When the **Penpower Jr.** is started for the first time, it will start in **Handwriting Mode**. Left mouse click the **Menu**  button or right mouse click the toolbar  to display the options menu. Select the **Penpower mouse mode** to switch to the mouse mode. In mouse mode, click the **Switch**  button to switch back to handwriting mode.

***TIP:** The middle function button on the Penpower Junior touch pad allows fast switching between the handwriting and mouse modes.*



Handwriting mode

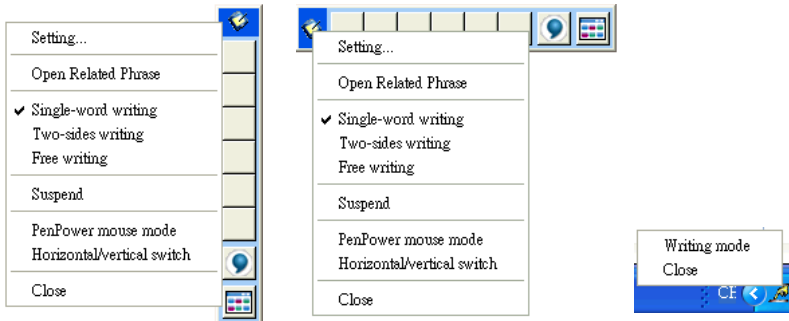
Mouse mode

5.6.2 Handwriting Mode Taskbar

Suspend: Temporarily close the toolbar. To reopen the toolbar, select the **Suspend** and click **Writing Mode**.

***TIP:** You can also minimize the handwriting mode toolbar by double-clicking it.*

Horizontal/Vertical Switch: Switch between the horizontal and vertical layout of the toolbar.



Vertical Switch

Horizontal Switch

Suspend

5.7 Full Screen Handwriting Mode

There are three different options of **Full Screen Mode** displays in the main menu.

Single-word writing

You can only write one word at a time. You cannot start writing the next word until the current word has been recognized.

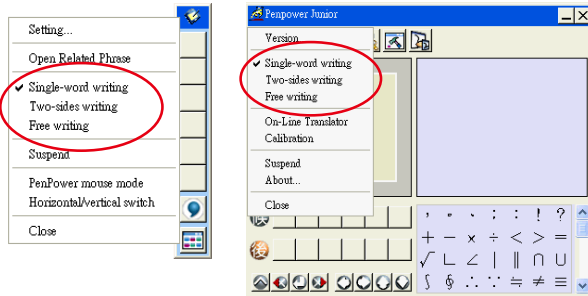
Two-sides writing

After the first stroke is made, a vertical line will be displayed in the center of screen. All following strokes written on the one side of the line are considered part of one word.

Starting a new stroke on the other side means that the last word is finished and you've started to write the next word.

Free writing

You can handwrite multiple characters at one time before recognition. Forty one characters at most is allowed. You can write left-to-right or top-to-bottom. Remember to keep adequate distance between two contiguous words when you write. The amount of distance affects character segmentation.



5.7.1 How to Write

In **Free Writing Mode**, try to keep strokes of the same word separate from strokes of other words so not to overlap words when you write. Finish every stroke of each word for maximum accuracy.

Correct:

Write the three words 『明日月』.

Incorrect:

Overlap between two words. All the strokes may be recognized as one word.



Incorrect:


The two parts of one word are written far away from each other. The strokes may be recognized as two words.



Auto Phrase Correction

The **Penpower Jr.** automatically proofreads your writing content to improve the recognition rate. For example, if you continuously write 『天下太平』 (peace on the earth), but the character 『天』 is written as 『夫』, the **Penpower Jr.** uses its internal phrase dictionary to correctly recognize the intended result of 『天下太平』.

5.7.2 How to quickly fix errors, enter phrases and symbols

When writing, candidate words based on the previous input will be displayed on the handwriting toolbar. Each tap of the left function button on the touch pad will move the candidate words forward by one and also correct the results, allowing errors to be quickly fixed; the right function button allows the input of six habitual symbols. Alternatively, select a candidate word on the handwriting toolbar to correct it. Click the **Symbols Table**  button with the mouse to open the symbols table and enter the corresponding punctuation symbol.

You can also tap the middle function button on the touch pad to switch to **Mouse Mode**. In **Mouse Mode**, select the candidate word to edit with the candidate words database, post-related word, phrase or select symbol database.

For example: in **Handwriting Mode**, the input 『蒙恬科技』 had the character 『技』 misread as 『投』. Here you can click the middle function button on the touch pad to switch to the **Mouse Mode** then choose from the candidate words field 『投』 to correct the mistake. Once fixed, tap the middle function button to switch back to the **Handwriting Mode** and continue writing.














5.8 Balloon UI

This unique user interface lets you edit recognition results freely in any application. The visual user interface may be hidden but is always available. When you want to correct a word, just hover your cursor on a word and a toolbar will eventually pop-up.

蒙恬气泡式介面



TIP: You do not need to click anything after the cursor is hovered on the word.

On the toolbar, click candidate words, the AI  button, the homophone  button, the pre-related word  button, the post-related word  button or the phrase correction  button to correct your result. Click the  button to see the raw image of your strokes. Click the  button to open the tutor. Click the  button to input punctuation symbol. Click the  button to split one word. Click the  button to merge one word with next. The  button is to activate the Chinese-English translation function. Details about this function are provided further on in the manual.

Note: In New Handwriting/Mouse mode the balloon interface commands can only be used with the mouse.

Note: The Balloon Interface can be used in Microsoft Office, IE, WordPad. However, on 64-bit systems the interface may not be compatible with some software, except NotePad.



5.9 Result Correction

When you use candidate words or the **AI** button to correct the result, the **Penpower Jr.** will modify its recognition database to adapt your personal writing style. This may improve the recognition rate.


5.9.1 By Artificial Intelligence

1. Write a few words. The result would display on your screen.

2. For example, the character 『恬』 is wrongly recognized as 『恰』.

3. Hover your cursor on the word 『恰』 for a moment, the toolbar pops up.

4. Click the candidate word if the correct word is there.

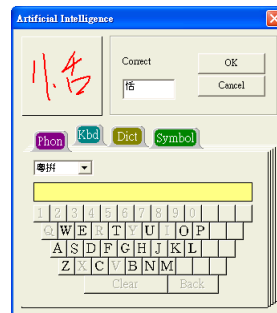
5. Otherwise, click the **AI**  button to open the AI correction dialog.

6. Input the correct word 『恬』, and then click **OK**.


7. You will see the wrong result 『恰』 is already updated as 『恬』. Your personal writing style has also been detected by the **Penpower Jr.**

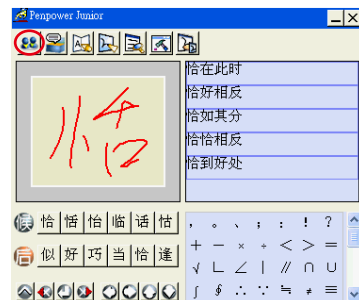
蒙恰科技

蒙恰科技



蒙恬科技

***TIP:** You can also click the touch pad's middle button to switch to the mouse mode. If the correct word appears among the candidate words, simply click it to make the change. If the correct word is not among the candidate words, press the Penpower AI  button to open the AI dialog box to train the software.*



5.9.2 By related word


For any two subsequent characters, the first one is the pre-related word of the second one. The second one is the post-related word of the first one.

e.g. 『科技』, 『科』 is the pre-related word of 『技』, and 『技』 is the post-related word of 『科』.

1. Write a few words. The result displayed on the screen e.g. 『恬』 is wrongly recognized as 『恰』, and 『科』 is wrongly recognized as 『料』.

2. Hover your cursor on the word 『恰』 for a moment, the toolbar pops up.


蒙恰料技

3. Click the  button to open the window of pre-related phrases. If the correct phrase 『蒙恬』 is in the list, click it to update the result.

蒙恬料技



4. Hover your cursor on the word 『料』 for a while, the toolbar pops up.

5. Click the  button to open the window of post-related phrases. If the correct phrase 『科技』 is in the list, click it to update the result.

蒙恬料技




6. You will see that the wrong result 『蒙恰料技』 is already updated as 『蒙恬科技』.

蒙恬科技



5.9.3 Merge

When some strokes of one word are written far away from each other, they may be recognized as several words. You can use the **Merge** command to combine them into one word.


1. Write two words 『栋梁』 though **Free Writing** mode. The result would display on your screen.
2. If 『木』 and 『东』 is written far away from each other, you may get 『木东梁』 as your result.
3. Hover your cursor on the first word 『木』 for a moment, the toolbar pops up.
4. Click the  button to merge 『木』 and 『东』 into 『栋』.



Note : Only two consecutive words can be merged at one time.


5.9.4 Split



When two words are written too close, they may be recognized as a single word. You can use the **Split function** to separate the word into two words.

1. Write 『日月星辰』 though **Free Writing** mode. The result will be displayed on screen.
2. If 『日』 and 『月』 were written too close, you may wrongly get three words of result 『明星辰』.
3. Hover your cursor on the word 『明』 for a moment, the toolbar pops up.
4. Click the  button to separate 『明』 into 『日』 and 『月』.



5.9.5 Phrase Correction

In **Full Screen** mode, if you wish to enter a common phrase (such as an idiom) and if you are not sure of how to write one of the characters, you can substitute a similar-sounding character instead. If you are not sure of the given character's pronunciation either, choose any at random. When you have finished writing the phrase, select the uncertain character with the mouse then click the **Phrase correction**  button. The **Penpower Jr.** will examine the four characters before or after this particular character to infer the phrase and then edit the phrase.

1. When entering an idiom in **Full Screen** mode such as 『拔苗助长』, if you are not sure of how to write the character 『拔』, you can write the character 『一』 instead to input 『一苗助长』.
2. Hover the mouse on the character 『一』 for a moment to display the **Candidate Characters Window**. Click the **Phrase correction**  button and the 『一』 character will be changed to 『拔』.
3. If **Phrase correction** displays multiple candidate words, these will be shown as candidate words for you to choose from. For example, if you wrote 『股份一限公司』 when you hover your mouse cursor over the 『一』 character, the **Candidate Characters Window** displays. Clicking the **Phrase correction**  button displays a list of all phrase correction candidate words for you to choose and replace with.

一苗助长



拔苗助长


股份一限公司








5.10 Homophone

If you forget how to write a certain words or it is too complicated to write, you can write down a homophone to display the word that you would like to input. For example, If you want to input the word 『豫』 :

1. Write any homophone of 『豫』 , for example. 『玉』 . The character will be displayed on screen.
2. Hover your cursor on the first word 『玉』 for a moment to display the toolbar.
3. Click the  button to display the window of homophone words.



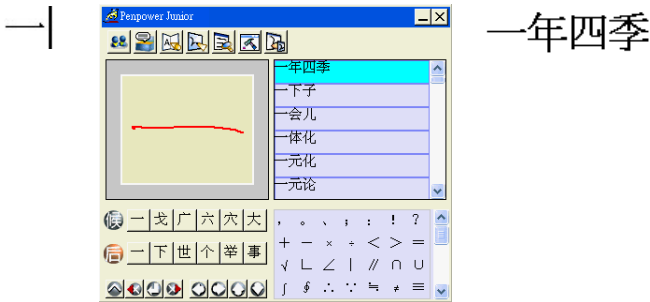
4. You can click the    button to toggle other Zhuyin homophone/Cantonese homophone/Hanyu homophone.
5. Click 『豫』 to replace 『玉』 .

豫

5.11 Related Phrase

5.11.1 Input words by Related Phrase

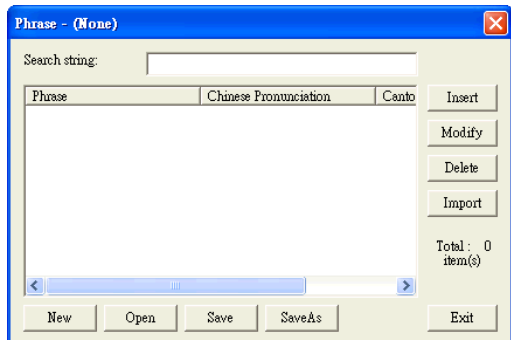
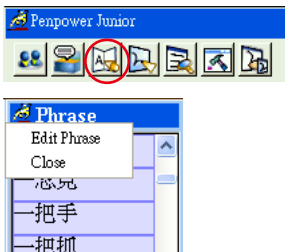
1. Write the first word of a phrase. e.g. If you want to input the phrase 『一年四季』, just write the first word 『一』.
2. Tap the middle button on the touch pad to switch to **Mouse** mode. All the phrases beginning with the word 『一』 will be listed on the phrase area of the **Mouse** mode.
3. Click the phrase or memorized word that you want to send it into the caret. e.g. 『一年四季』.



5.11.2 Update Phrase Database

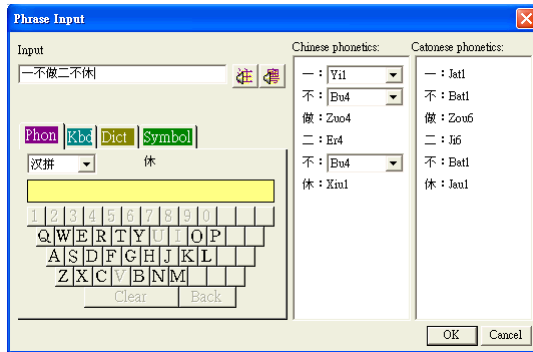
There are thousands and thousands of default phrases that can be recognized by the **Penpower Jr.** You can also customize the phrase database to meet your needs.

1. In **Mouse** mode press the **Phrase**  button. Or in Handwriting mode, click **Associations Dictionary** and then click **Edit Phrase** to display the **Phrase** dialog box.





- Click the **Insert** button. The **Phrase Input** dialog displays. You can input a new phrase here. For example, if you want to insert 『一不做二不休』 as a phrase, input 『一不做二不休』.



Update the phonetics on the right side. Click the / buttons to hear the pronunciation to check if the one you selected is correct.

Note : The maximum length of a phrase is 200 words. The phonetics of the phrase is only for the VoiceReader to read the given text properly. Correcting the phonetics for a phrase is optional.

Click **OK** to finish insertion. Following insertion, if you just write 『一』, then 『一不做二不休』 is displayed in the phrase window. Click the phrase to input it.

- Select a phrase from the list, and then click **Modify** to update the phonetics of this phrase. Click **Delete** to delete the phrase from database.
- In the **Search string** field, you can only input part of a phrase to find the phrase quickly.
- You can use the **New**, **Open**, **Save** and **Save As** commands to manage your phrase database (*.yib).

Note: Although you can create several phrase databases, you can use one at one time.

- Import file:

Click **Import** and select a phrase database (.yib) or text file to import it into current database.

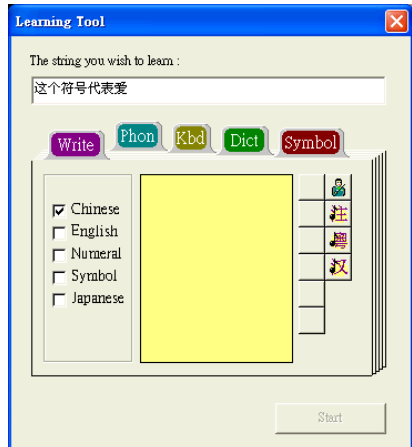
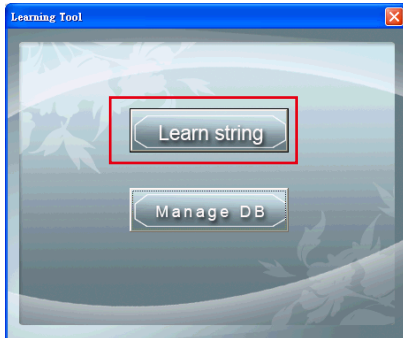
The text file format must only contain one phrase per line. You can edit the contents with any text editor such as NotePad.

Note: Every imported phrase will have its own phonetics by default. The phonetics may be wrong. You can modify them from the Phrase dialog.

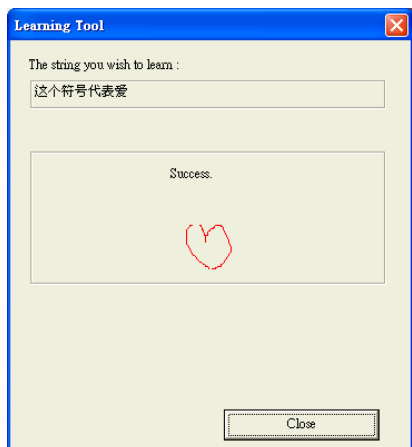
5.12 Learning String

A string is represented by a single symbol. You can write the symbol anytime and the recognition engine will recognize it as the entire string, minimizing needless writing.

1. In Mouse mode, click the **Learning Tool** button and click **Learn String**. The **Learning Tool** dialog box displays.
2. Enter the string you want to learn, then click **Start**.

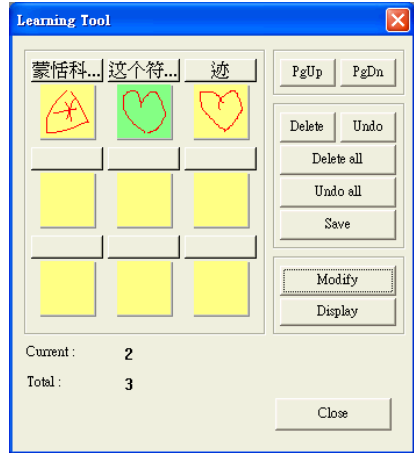


3. Write your symbol twice according to the instructions.





4. Click the **Manage DB** tag. You can browse through the animated symbols for strings or any of the strings you have assigned a symbol to.



5.13 Gesture

The **Penpower Jr.** supports four standard writing gestures. You can write these gestures to perform certain keyboard actions.

1. **Delete:** simulates the DELETE key. 

2. **Backspace:** simulates the BACKSPACE key. 

3. **Enter:** simulate the ENTER key. 

4. **Space:** simulate the SPACE key. 

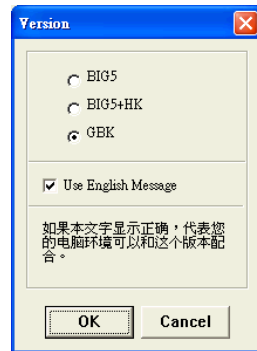
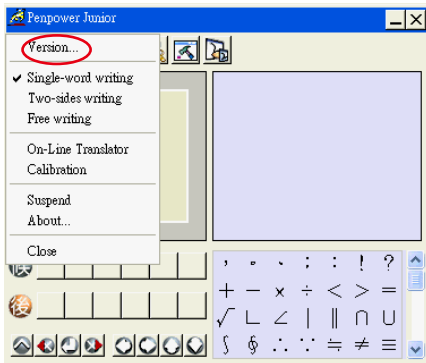
5.14 Mixing Traditional and Simplified Writing

You can mix writing traditional and simplified Chinese words. For example, you can write the two words 『書寫』.

No matter what characters you write, just set the recognition engine to determine whether the output is shown as Traditional or Simplified Chinese. See 4.12.1 for more details.

5.15 Switching Versions

1. In **Mouse** mode, click Penpower Junior options, then click **Version**.




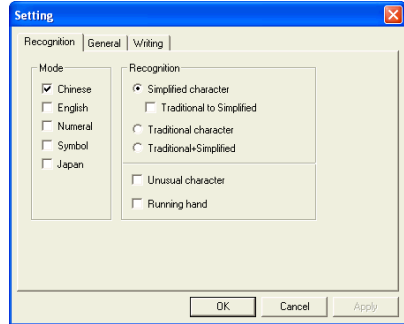
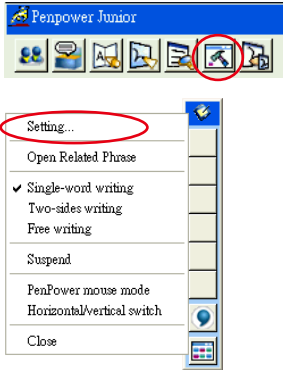
2. For the Win2000/XP/Vista operating systems for Traditional Chinese, Traditional Chinese (Hong Kong) or Simplified Chinese, the output of the handwriting recognition is always encoded using Unicode. If, after switching versions, you cannot see the message displayed correctly at the bottom of the dialog box, your Windows operating system may not support the version you chose.

3. Select **Use English Message** to display all of the messages in English.



5.16 Settings

In **Mouse** mode, click the **Setting**  button or in **Handwriting** mode, click Setting from the menu. At the **Setting** dialog box, choose the settings for the recognition engine, output format or writing inking.



5.16.1 Recognition Setting

Mode:

The Recognition mode of Chinese, English, Numeral, Symbol and Japanese can be selected individually. You can select several modes at the same time.

Recognition:

- * **Simplified character:** All of the results are in Simplified Chinese. If you do not know how to write traditional words, you can deselect **Traditional to Simplified** so your writing is not recognized incorrectly as Traditional Chinese.

Note: The Traditional to Simplified option is available only when you switch to the Simplified version.

- * **Traditional character:** All of the results are in Traditional Chinese.
- * **Traditional+Simplified:** You will get traditional words while using traditional writing, and you will get simplified words while using simplified writing.

Unusual character:

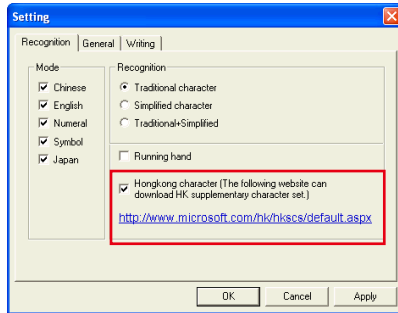
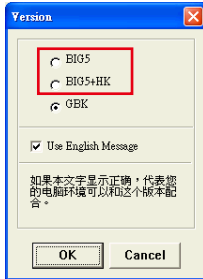
The **Penpower Jr.** recognizes some unusual words when you select **Unusual character**.

Running Hand:

Select this option to recognize run-on cursive.

HongKong Character:

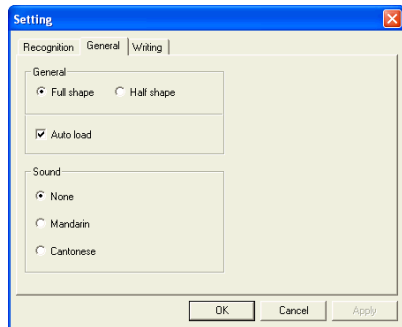
This recognition mode is available only when the **Penpower Jr.** is set to **BIG5** or **BIG5+HK**. You can connect to <http://www.microsoft.com/hk/hkscs/default.aspx> to download the HongKong characters list.

**5.16.2 General Setting****Half shape/Full shape :**

To decide whether the handwriting result of alphanumeric is recognized as one-byte ASCII code or double-byte code.

Auto load:

Start **Penpower Jr.** when Windows starts.

**Sound:**

Pronounce the character in Mandarin or Cantonese immediately after recognition.



5.16.3 Writing Setting

Ink color:

Select the color of inking. You can adjust the smoothness of color gradation when selecting **Multiple**.

Ink width:

Select the thickness of inking.

Ink sound:

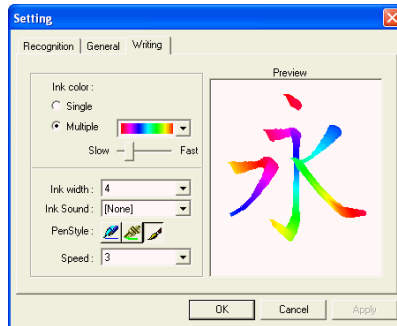
Select the sound effect while writing.

Pen style:


Select the pen style.

Speed:

Select the writing speed. The less the relative value is, the shorter the timeout for recognition after you've stopped writing.





5.17 Signature


1. Move your cursor to where the signature will be.
2. Select the Mouse mode and click the **Signature**  button. The **Welcome to Penpower Signature Tool** screen will be shown and you are now in the signature mode.




3. In **Signature** mode, the right button is defined to toggle pen mode and mouse mode. You must switch to **Pen** mode before signing your signature. The left button is defined to change color.


 : Select the color of inking.



 : Select the thickness of inking.

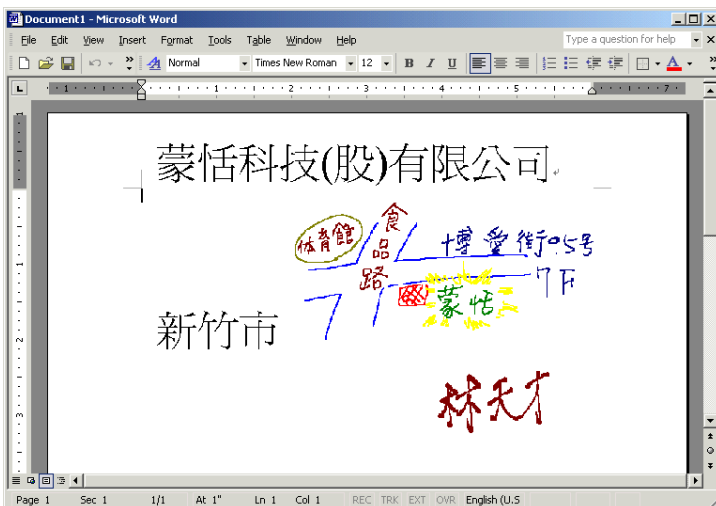
 : Select the pen style.

 : Clear all.

 : Undo one stroke.

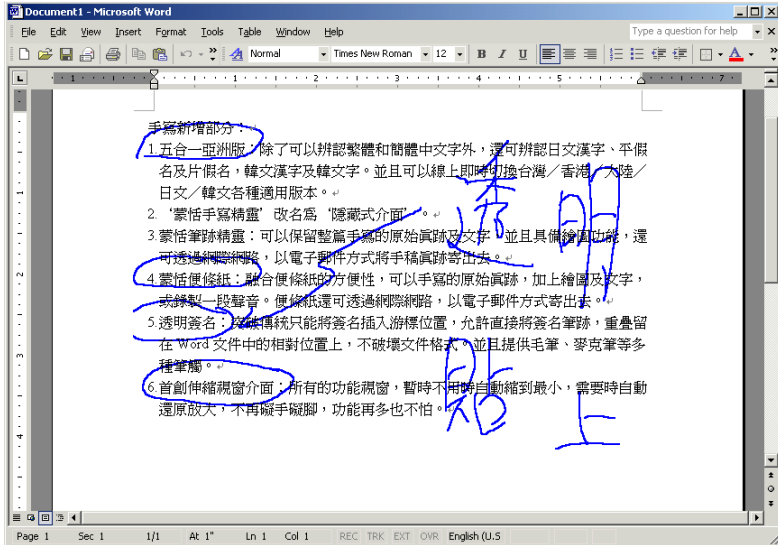
 : Redo one stroke.

4. Click the  button to cancel signature.
5. Click the  button to insert your signature at the position of your cursor.



6. Click the  button to overlap your transparent signature in an MS Word or Excel document.

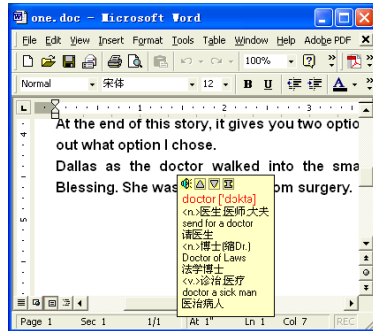
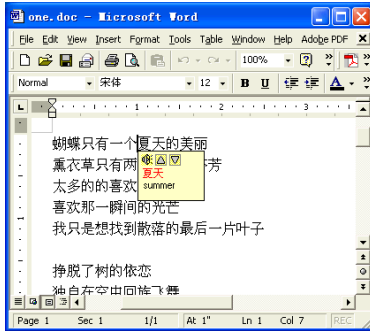
Note: You can use the transparent signature in the latest version of Word and Excel, but Office 2007 does not support this function. You may make notes and commentary by using the transparent signature feature.







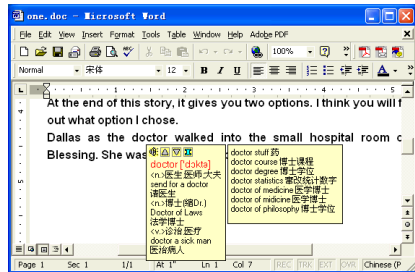
5.18 Online Translator


1. Select **Mouse** mode and click the **Online Translator**  button to activate the **Online Translator**. Press the button again to deactivate.

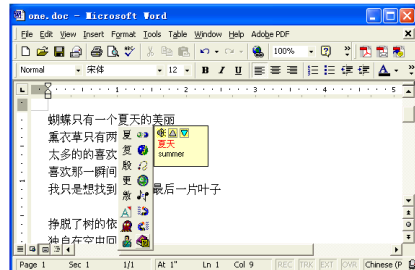
When reading English or Chinese articles, if you encounter unknown characters or phrases, rest the cursor over the characters, and a translation tip displays with additional information in English and Chinese.



When you move the cursor outside the interactive scope, the tip disappears. In the window, you can press the **Play**  button, the **Character**  /  , or the **phrase explanation**  buttons.





Online Translation is used in the balloon interface. When you want to look up a character's translation, select the  button from the candidate window.



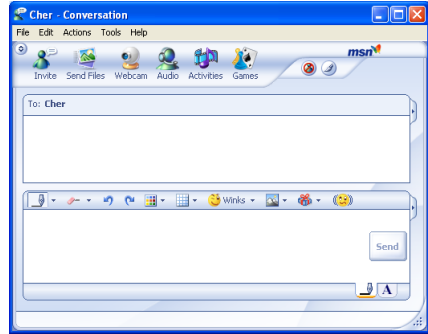


5.19 Using Penpower Jr. in MSN Messenger

Note: This required MSN Messenger version 6.1 or higher version.

After you have signed in to the MSN Messenger, double-click the person's name to display the conversation box. Below this conversation box, there are two modes for you to select: **Handwrite**  and **Type** . You can switch between the input modes as you like.

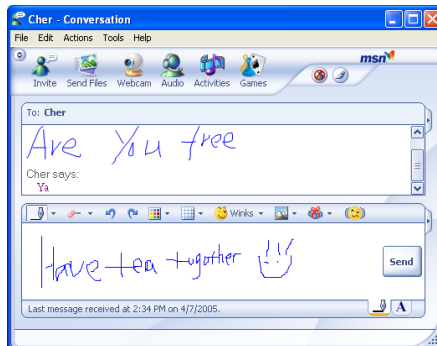
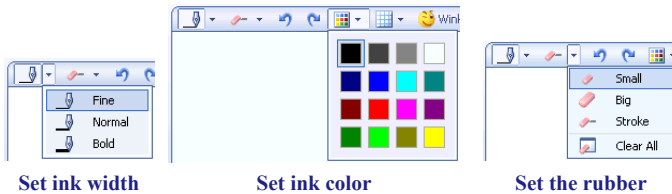
Note: If you can't activate the handwriting mode, please visit the Microsoft website and install the necessary handwriting.



In the **Handwrite** mode, you can adjust the font size and the font color. When done, you can write on the tablet and the words will appear in your selected font size and color.

If you want to clear the words you have written, you can use the eraser shown in the scroll bar.

After you have input your message, click **Send** to send your handwritten message.

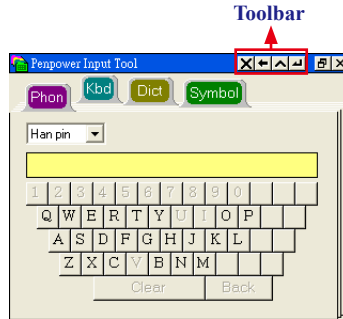


5.20 Input Tools

Installing the **Penpower Jr.** also installs the **Penpower Input Tools**.

Click the **Start** button, and then select **All Programs**. Select **Penpower Jr.** and then click **Penpower Input Tools** to start **Penpower Input Tools**. It contains four input methods: Phonetic, Keyboard, Dictionary, and Symbol.

The commands on the toolbar are **Delete** the selected character, **Delete the character before the cursor**, **Insert a blank** and **Change line**.



Note: Before running the Penpower Input Tools, make sure the Penpower Jr. has been started. Otherwise you'll be asked to start the Penpower Jr. first.

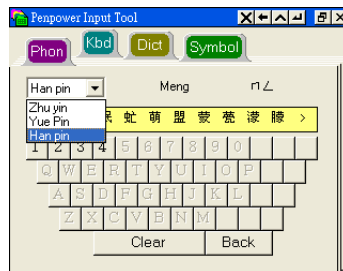
TIP: Hover your cursor on the Penpower Input Tools to expand it to normal size. Otherwise the Penpower Input Tools appears as a small icon  to avoid taking up space on the screen.

5.20.1 Phonetic Input Tool

There are three types of phonetic inputs provided by the **Penpower Jr.**: Zhu yin, Yue Pin and Han pin. You can also create your own phonetic input.

How to Use

1. Select a phonetic input: Han pin, Yue Pin or Zhu yin.
2. Click the screen keyboard buttons one by one in order.
3. The converted candidate character is listed in the text buffer.

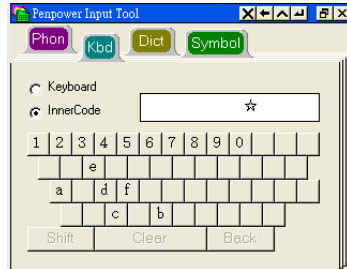




5.20.2 Keyboard Input Tool

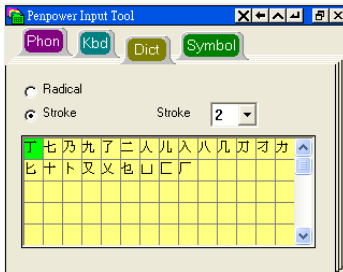
Keyboard: Simulated software keyboard.

Inner Code: e.g. The inner code of [☆] in hexadecimal is A1B8. Click A 1 B 8 in that order in the screen to display [☆].

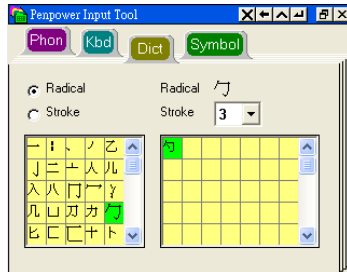


5.20.3 Dictionary Input Tool

Query by stroke :

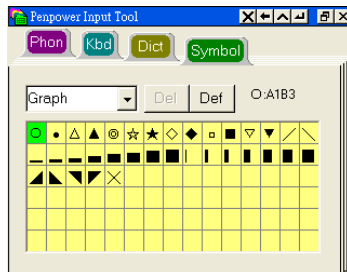


Query by radical :



5.20.4 Symbol Input Tool

Special symbols are displayed on several tables. Select a table and click the desired symbol. You can customize the symbol tables.

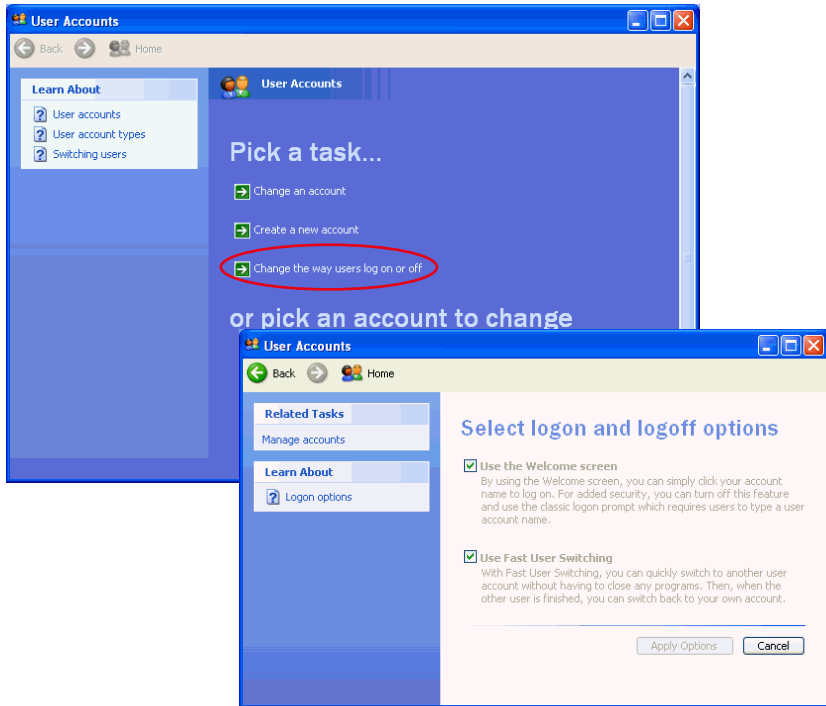


5.21 Fast User Switching

The **Penpower Chinese Expert** (Writing Pad) supports **Fast User Switching** when you have more than one user account in Windows OS. **Fast User Switching** allows all users to use the **Penpower Chinese Expert** and the **Penpower Jr.** without reinstalling on each account.

To activate **Fast User Switching** click the **Start** button, select **Settings** then click **Control Panel**. Select **User Accounts** and then click **Change the way users log on or off**. Select **Use the Welcome screen** and **Use Fast User Switching** and then click **Apply Options**.

The **Penpower Jr.** will work now no matter which account is used to log in.

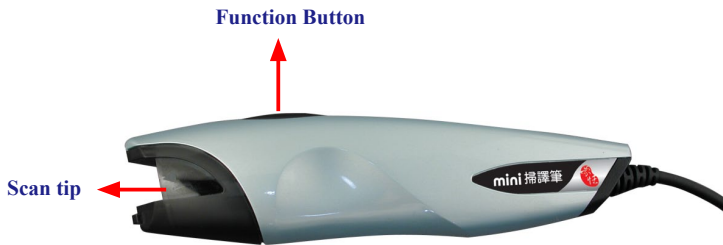




Chapter 6 Pen Scanner Version

6.1 Hardware Specifications

- Dimensions: 131mm x 31mm x 19 mm
- Weight: 45g (excludes USB cable)
- Interface: USB 2.0
- Scanning speed: 15 cm/sec
- Character size: 5-22 pt



Function button:

When scanning words, the function button can be used as the **Enter** function. When you press the function button in the **Penpower Transeye**, the **Online Translator** will translate the next word in the scanned line.

6.2 WorldPenScan Introduction

WorldPenScan, the best input device, scans and recognizes Chinese, English, Japanese, Korean, French, German, Italian and Spanish into your computer via the USB interface. Whenever you come across any particular words or sentences that you do not understand, WorldPenScan will scan for you. With an ergonomic design, **WorldPenScan** provides a comfortable handle which fits all left and right-handed users. Scan away effortlessly with the transparent scan tip. Where you see, where you scan.



- **A brand new ergonomic design**

Provide a comfortable handle which fits all left and right-handed users. Scan away effortlessly with its transparent scan tip. Where you see, where you scan.

- **The best input device**

Unlike the complicated process of the traditional scanner, WorldPenScan provides the easiest way for inputting words. Multi-thread architecture allows you to scan continuously without pause while recognition is being done on the fly.

- **Multiple language recognition system**

The adjustable multiple language recognition system provides Traditional Chinese, Simplified Chinese, Hong Kong characters, English, Japanese, Korean, French, German, Italian and Spanish recognition languages.

- **Automatic Tilt Calibration**

Auto-detect and calibrate the tilt angle of the scanned pictures to improve the recognition accuracy.

- **Balloon Interface**

Balloon interface offers you a non-interference environment. All scan results will directly transfer to the desired application. Balloon interface pops up and provides online translator, pronunciation, candidate words and related words whenever you need.

- **Penpower VoiceReader**

Penpower VoiceReader utilizes a state of the art text-to-speech technology, it reads in fluent Mandarin or Cantonese of any articles. You can use it as a tool for fast proofreading or in teaching the correct Mandarin/Cantonese pronunciation.

- **Bidirectional Chinese to English document translation**

Come with translation software, Transtar, which can translate phrases or characters from English to Chinese or vice versa and have your complete Chinese document translated into English right away, with a read back function which reads out your document to you aloud.

- **Online Translation**

The manageable online translation menu is attached on the toolbar. You can set up the translation website for translating instantly.

- **Scan Image**

The new feature of scanning images lets you scan and save the important images into MS Word files.

6.3 Installing the PCE and the WorldPenScan

Insert the **Penpower Chinese Expert** (PCE) setup CD into the CD-ROM drive and the system will automatically start the setup. You must run the **Driver Installation** program first. The setup program will guide you through the installation of the **Penpower Chinese Expert** or the **WorldPenScan**.

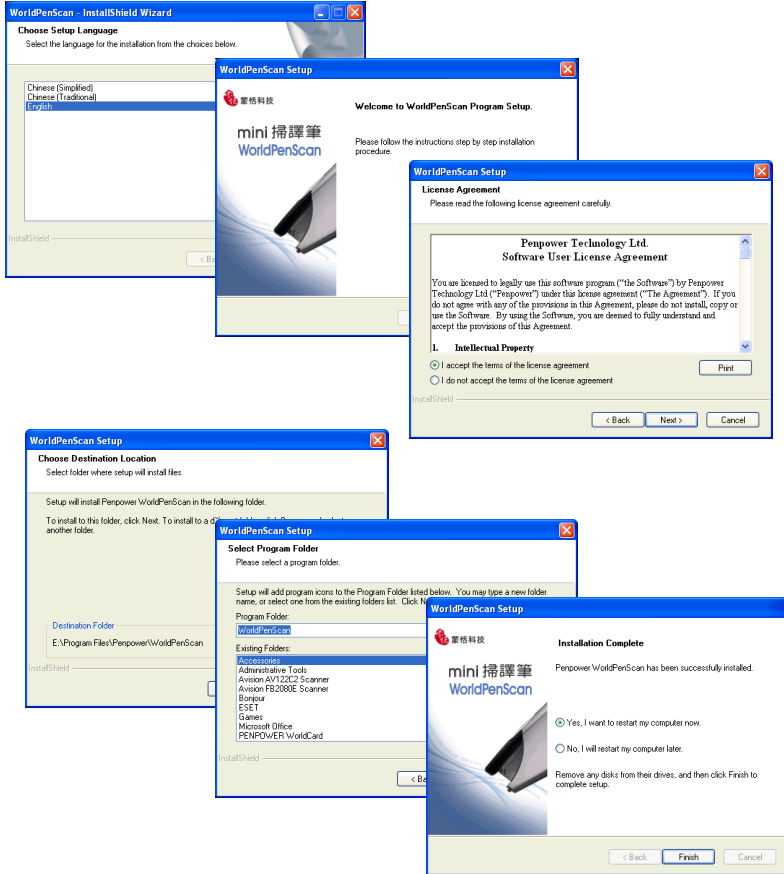


Note : The Penpower Chinese Expert (Scan Pen version) provides the Penpower OCR software. After installing the WorldPenScan, you can click on [Penpower OCR] to install it.



6.3.1 WorldPenScan Software Installation

Please install the **WorldPenScan** by selecting the **WorldPenScan** before installing the **Penpower Chinese Expert**. Select your installation language, then click **Next**. Follow the instructions on screen and carry out the installation process as directed. When the installation is completed, restart your computer.



6.3.2 Penpower Chinese Expert Installation

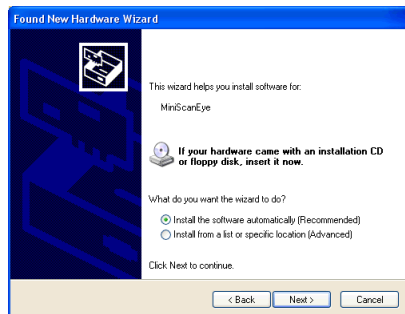
Select **Penpower Chinese Expert**. Select an installation language and click **OK** to install. Follow the instructions on screen and carry out the installation process as directed. Please refer Chapter 2 for more details.

6.3.3 Hardware Installation

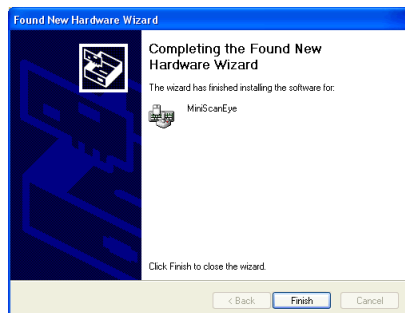
1. Plug in the **WorldPenScan** pen into your computer's USB port and a window may appear. Select [**No, not this time**] and click **Next** to continue.

Note: Some computers may shut down accidentally after connection. This is due to lack of power to support several USB devices. To avoid this problem, connect your WorldPenScan and other USB devices to an extra-powered USB hub.

2. Select [**Install the software automatically**] and click **Next** to continue.



3. Click **Finish** to complete the installation.




Note: When connecting the WorldPenScan pen to another USB port, follow these same steps to install again.

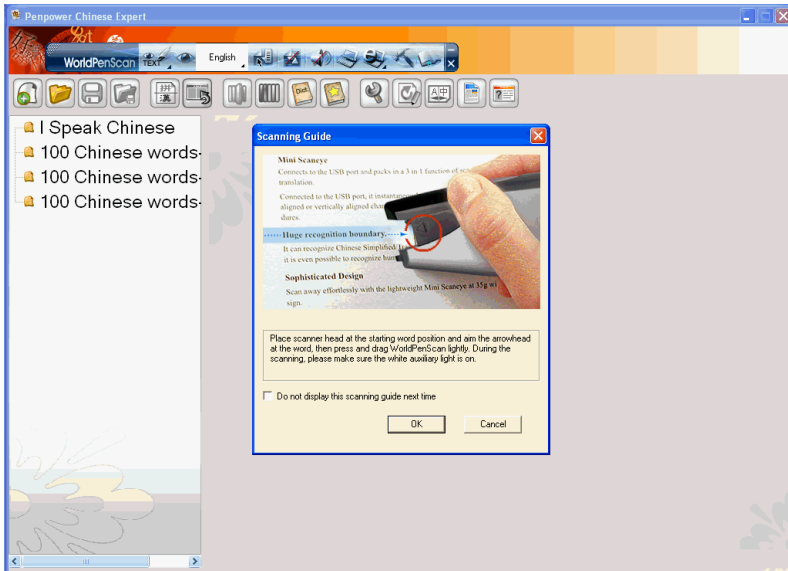


6.4 Starting the Penpower Chinese Expert

Note: Before installing the Penpower Chinese Expert on the Windows 2000/XP English operating system, you must enable the Traditional or Simplified Chinese encoding support under Regional and Language Options on the Control Panel. The process for setting up Chinese language support is slightly different for Windows 2000 and Windows XP. See “Section 4.2 Language Settings for English Environments” for details.

After the **Penpower Chinese Expert** software is installed, there will be a new  shortcut on the desktop. Double click this icon to start the **Penpower Chinese Expert**. Alternatively, click the **Start** button, and then select **All Programs**. Select the **Penpower Chinese Expert** and then select the **Penpower Chinese Expert**.

When the **Penpower Chinese Expert** is started, the **WorldPenScan** starts as well. When using the **WorldPenScan** for the first time, a scanning tutorial will appear to show you how to use the **WorldPenScan** correctly.

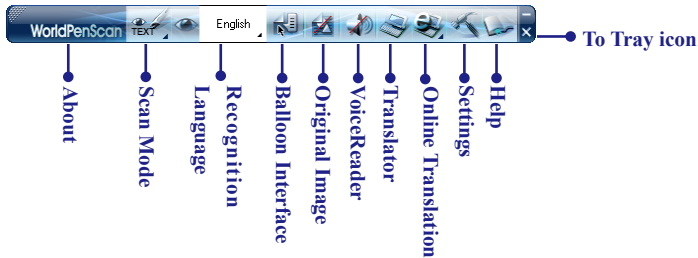



Note: Please refer to the Chapter 3 for help with the Penpower Chinese Expert.

6.5 Start the Penpower WorldPenScan

Go to [Start/All Programs/Penpower WorldPenScan/Penpower WorldPenScan] or double click the  shortcut on the desktop to start the WorldPenScan toolbar.


6.5.1 Toolbar






1. **Scan Mode:** Provide [Scan & Recognize] and [Send Image], click  to select scan mode. If you select **Scan & Recognize** mode, it will scan and recognize text to your computer. If you select **Send Image** mode, it will send the scanned image to your computer.

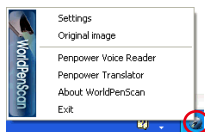


Note: When you use the [Send Image] mode, you need to have an image-supporting software running i.e. Microsoft Word.


2. **Recognition Language:** WorldPenScan can recognize English, French, German, Italian, Spanish, Korean, Japanese, and Simplified/Traditional Chinese text. Click  to select the language of the text you would like to scan.
3. **Balloon UI:** provides candidates, phrase correction, split character, merge characters, original image, punctuation, previous characters, related characters and translation.
4. **Original Image:** display the scanned image.
5. **Voice Reader:** read aloud Chinese articles in Mandarin or Cantonese.
6. **Translator:** open Penpower Translator to translate Chinese-English/English-Chinese words and articles.
7. **Online Translation:** provide a translation function in which you can assign a translation website to translate scanned words.



8. **Settings:** provide Recognition Setting, General, Property, Translation Website Set up and Interface Language settings.
9. **Minimize:** click  to minimize the toolbar to Taskbar.
10. Click  to minimize the toolbar into a tray icon. Double-click the tray icon on the bottom-right of the screen to open the toolbar. Right-click  to open the function menu.




6.5.2 Scanning & Recognizing

1. Select **[Scan & Recognize]** from **[Scan Mode]** .
2. Select the language of the text that you would like to scan from **[Recognition Language]**.
3. Open any word processor (i.e Microsoft Word or Wordpad) and click the location where you would like the WorldPenScan to start.
4. Place a document on a flat surface and place the scanner tip at the start of your desired scan area. Aim the arrow at the desired area, then press and drag the WorldPenScan pen in a straight line across the area. During the scanning, please make sure the white auxiliary light is on. Stop applying pressure to the pen to stop scanning. The scanned text will display in your word processor.

Note: Penpower WorldPenScan is able to scan and recognize one row of characters at a time. Place the pen so the Scan Tip arrow points at the center of the line.


蒙恬全屏幕手写精灵

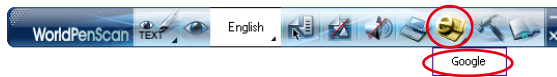
6.5.3 Sending Images

1. Select **[Send Image]** from **[Scan Mode]** .
2. Open a word processor that is able to display images (i.e Microsoft Word) and click the location that you would like to display the scanned images.
3. Place a document on the table and place the scanner head at the starting word or picture and aim the Scan Tip arrow at the center of the scan area, the press and drag the WorldPenScan pen in a straight line. The white auxiliary light from the Scan Tip indicates the pen is scanning. The scanned picture will display on your word processor in an image format.



6.5.4 Online Translation

1. Click **[Online Translation]**  and select a translation Website from the toolbar. The software will then open Internet Explorer, visit the translation Website, and then open the [Translator Online] window.



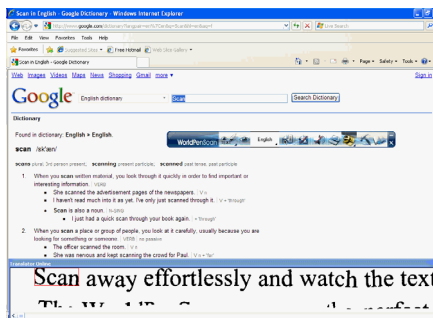
Tip: You can organize Website Links from the Translation Settings function. Please refer to 3.3.6 Translation Website Set Up for more detailed information.

2. Place a document on the table and place the scanner head at the starting word and aim the Scan Tip arrow at the center of the scan area, the press and drag the WorldPenScan pen in a straight line. The white auxiliary light from the Scan Tip indicates the pen is scanning. The scanned area will display on the **[Original Image]** portion of the screen and the first recognizable word will be translated.

Note: Before scanning, please select the Recognition Language which match the scanning words.

3. The translation result of the first recognized word will be displayed in the web browser. The original scanned image will also be shown in the [Translator Online] window as well.

Note: If the website does not support the enter function, please manually click the translate button on the website with your mouse.



4. If you have scanned more than one word, you can press the function key on the pen to see the translation of the next recognizable word.


Note: If the website does not support Enter function, it also cannot support hardware button. Please scan next word instead.

5. Click **[Translation]**  or close the [Translator Online] window.



6.6 Recognition Language

Before scanning, check that the **Recognition Setting** has been configured to your desired language. Different configurations will yield different results when scanning.

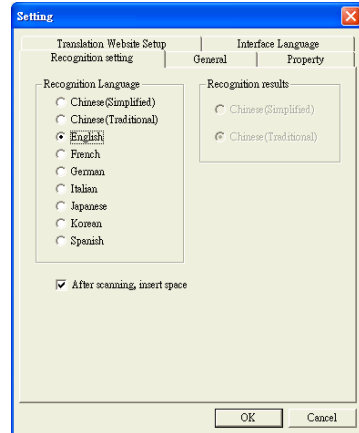
1. Click  **Settings** icon on the **WorldPen-Scan** toolbar and select the **Recognition Setting**.

* Recognition Language

Change the [Recognition Language] to the language of the desired scan text.

* Recognition Results

If you select [Traditional Chinese] or [Simplified Chinese], you can select which language you would like the WorldPenScan to type out. No matter whether the text is Simplified or Traditional in, the WorldPenScan will type out the characters in the selected language.



Tip: WorldPenScan can actually convert Traditional text on your document to a Simplified Chinese oriented result vice versa, in which you can select a different combination.

* Recognizing HK Character

If you select [Traditional Chinese] recognition language, you can check [Recognize HK Character] option to recognize Hongkong characters option. Connect to the <http://www.microsoft.com/hk/hkses/default.aspx> to check the Hong Kong characters list.

* After Scanning Insert Space

If you select the English recognition language, you can select the [After Scanning Insert Space] box. While scanning English text, the system will automatically add a space at the end of the scan.

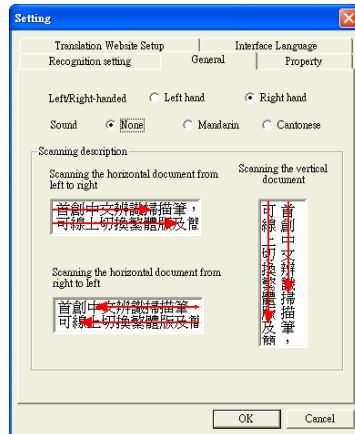
6.7 Scan Direction

In the [General Setting] page, you can select the appropriate Scan Mode and configure the pen to suit left or right-handed holders.

* Scan Direction Settings

WorldPenScan must be used to scan the characters in a consistent direction, any changes to the direction will cause inaccurate recognition results.

According to how you hold the pen and the direction which you want to scan to change the configuration settings.

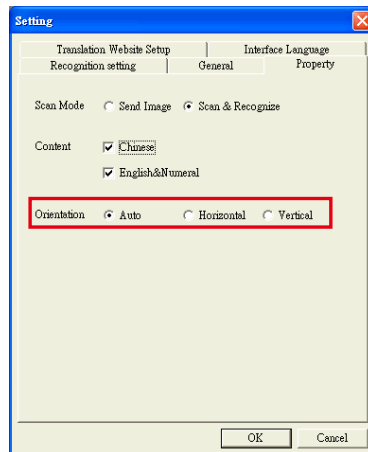


6.7.1 Scanning Horizontal or Vertically Aligned Text

When you first use the **WorldPenScan**, the default setting is automatically detects the direction of the text. However, you can manually set the scanner to scan in a direction of your choice. If left in its default settings, the scanning speed of the **WorldPenScan** will be slower until the **WorldPenScan** detects the appropriate text direction.

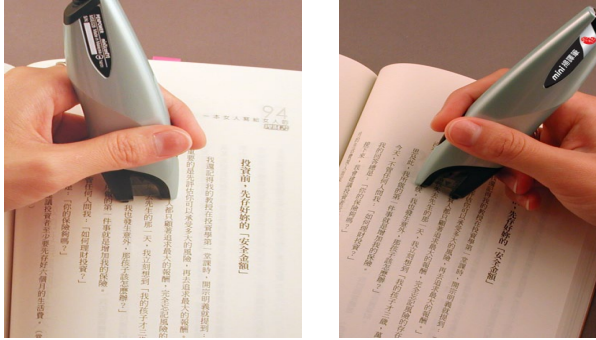
If you already know that all your text all read in a certain direction, you can set the WorldPenScan to scan in that direction using the interface.

To do this, click the **Property** tab and choose your desired text direction under **Orientation**.



6.7.2 Scanning Vertically Aligned Text

When scanning vertically aligned text, scan the text from top to bottom and have the pen centered on the characters as indicated by the Scan Tip arrow.



6.7.3 Scanning Horizontal Text

When scanning horizontal text, you can choose the left-handed or right-handed option. Place the pen on the text and move from left-to-right or right-to-left depending on the scanning direction settings you previously set.



Right hand: Scanning from left to right or Scanning from right to left



Left hand: Scanning from left to right or Scanning from right to left

Note: The Penpower WorldPenScan is able to scan and recognize one row of characters at a time. Place the pen in such a manner so that the Scan Tip arrow is at the center of the line of text.

6.7.4 Practice

Try scanning the illustrated text below, in a horizontal and vertical fashion, following the guidelines above. Do not make abrupt motions when scanning like immediately changing the speed of your scan. It will take approximately 5 seconds to scan the text below.

蒙恬扫译笔中文辨识扫描翻译


蒙恬扫译笔中文辨识扫描翻译

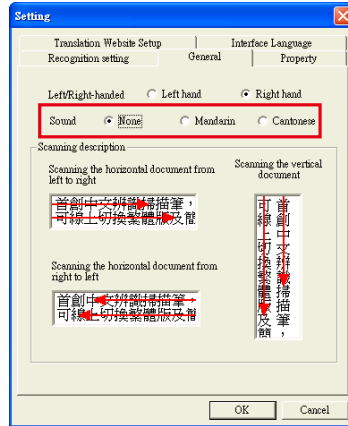
If you have successfully scanned the text with the correct recognition results, you are now ready to put **WorldPenScan** to actual use!



6.8 Speech-While-Scanning

Every time a character has been recognized, **WorldPenScan** will pronounce that character in **Mandarin**.

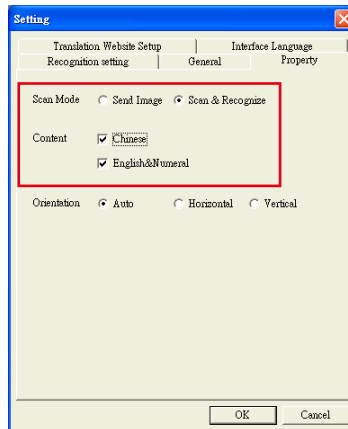
1. Click  **Settings** icon on the **WorldPenScan** toolbar.
2. On the **General** tab select **None** or **Speak** in the **Sound** area.



6.9 Property Settings

In the **Property Settings** page, you can select **Scan Mode**, **Content** or **Orientation**. Select **Scan & Recognize**, it will scan and display text on your computer. If you select **Send Image**, it will display the scanned image to your computer.

Select **Content** to change settings appropriate for the type of text being scanned. The software supports Chinese, Japanese, Korean, English or Numbers. Select the appropriate conditions for higher accuracy.



Note: The Recognition Language must match the language of the content for optimal accuracy.

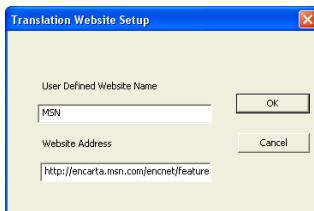
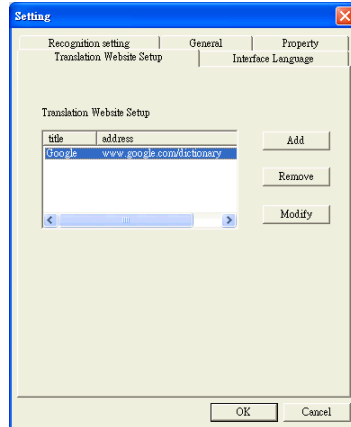
Note: The Content setting accords with the Recognition Language setting to display the supported settings.

6.10 Translation Website Setup

Translation Website Settings lets you add, remove, and modify online translation websites. The websites will be shown in the Translation button on the toolbar.

Click the **Add** button to open the Translation Website Setup window. Input the translation website name and its URL address, then click **OK**. You can also modify or remove a website by clicking the **Modify** button or the **Remove** button.

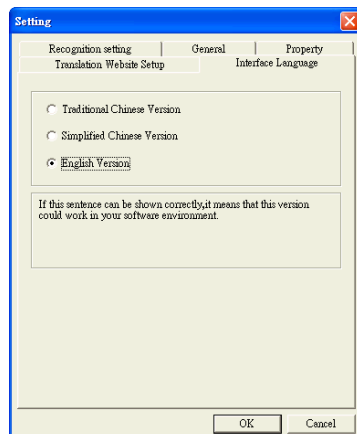
You will find the new Translation Website when clicking Online Translation button from the toolbar. Click it to open the Website.



6.11 Interface Language

Interface Language Settings lets you choose **Traditional Chinese**, **Simplified Chinese** or **English** for the user interface language. After choosing the language, you may check the description on the interface.

If the description does not display properly, this means your Windows OS does not support the chosen language display. Please choose another language.

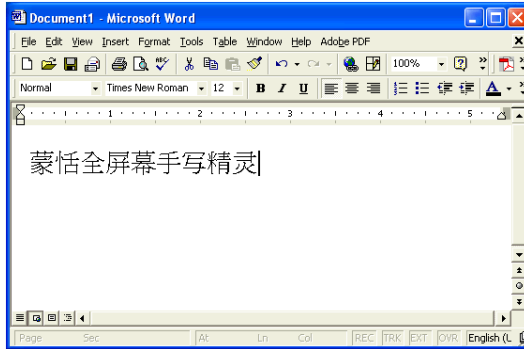




6.11 Using the Balloon UI




When using the **Balloon UI**, all scanning results will be directly transferred to the desired application. You can continuously scan through text and the results will be instantly displayed on the desired application.

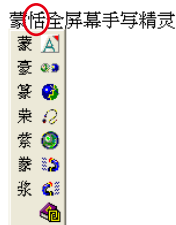
For example, scan 蒙恬全屏幕手写精灵 into MS Word.



6.11.1 Correcting a Specific Character

When you want to correct a specific character, just hover your cursor over a character for 1-2 seconds and a toolbar showing a list of suggested corrections will be displayed. This will enable quicker correction and a faster way of inputting characters into the desired application.

You can choose suggested corrections, combine characters with the **combination**  or  buttons, or the original text with the **display original text**  button from the toolbar.



*. **Candidates**

If you find an incorrect character in your result box, use the **Candidate** command to replace it with the correct character.

1. The illustration shows a character that has been recognized incorrectly.
2. Rest your cursor on the character for 1-2 seconds and a menu showing a list of suggested corrections displays.
3. If the correct character appears among the list of characters presented, click the character to have your current incorrect character replaced.




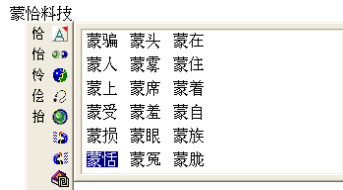
*. **Pre-emptive Linking**


In any consecutive set of characters (2 characters), the first character is the second character's uplink, while the second character is the first character's downlink. For example, in 科技, 科 is 技's uplink, while the character 技 is 科's downlink.

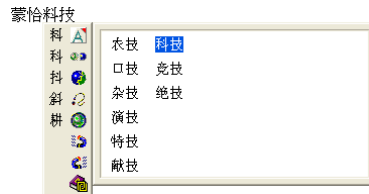
1. When using the **WorldPenScan**, the recognition results will be immediately displayed on the desired application.
2. For example, the character 恬 is wrongly recognized as 恰, and 科 is wrongly recognized as 料 as shown on the right side.

蒙恰料技

3. Hover your cursor on the character 恰 for 1-2 seconds and a toolbar displays listing possible characters. On the toolbar, click the  button (uplink) and a toolbar displays a list of combinations which are possible replacements for the character before 恰.



4. Hover your cursor on the character 料 for 1-2 seconds, and again a toolbar displays the list of possible replacements. This time, click the  button (downlink) and a list of combination of characters for the character after 料 will display.




5. You will see that the wrong result 『蒙恰料技』 is already updated as 『蒙恬料技』.



蒙恬料技



*. Phrase Correction

In **Full Screen** mode if you wish to enter a common phrase such as an idiom and if you aren't sure how to write one of the characters you can substitute a similar-sounding character instead. If you are not sure of the character's pronunciation either, choose any at random.

When you have finished scanning a phrase, select the character you are not certain about and then click the **Phrase correction**  button. The recognition software will examine the four characters before or after this particular character to guess what you meant and make the change.

1. When entering an idiom in **Full Screen** mode such as 拔苗助长, if you are not sure of how to write the character 拔, you can enter the character 一 so the input looks like 一苗助长.
2. Rest the cursor over the character 一 for a moment and a menu with the candidate character 拔 displays. Click the **Phrase correction**  button and the 一 character will be changed to 拔.
3. If there are multiple candidate words, these will be shown in the candidate words menu for you to choose from. For example, if the input was 股份有限公司, when you hover your mouse cursor over the 一 character, a toolbar with Candidate characters displays. Select the appropriate character and click the **Phrase correction**  button to make the correction.

一苗助长

一苗助长



拔苗助长


股份有限公司

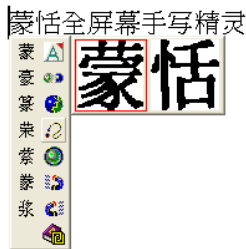


6.11.2 Displaying the Original Form


Click [Original Image] button on the toolbar to open the **Original Image** windows. It displays the scanned images.



Bsides, you can hover your cursor on the recognized character for 1-2 seconds and a toolar displays. Click the third  button, you will see the original image.



6.11.3 Punctuation in the Balloon UI

Click  and a panel listing punctuation marks will be displayed accordingly, allowing you to input half shaped or full shaped punctuation marks.



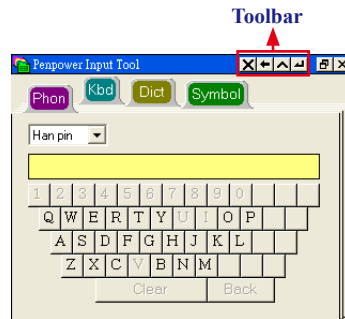
6.12 Penpower Assistant Tools

Installing the **WorldPenScan** also installs **Penpower Input Tools** and **Penpower Translator**.

6.12.1 Input Tools

Click the **Start** button, and then select **All Programs**. Select the **WorldPenScan** and then click **Penpower Input Tools** to start **Penpower Input Tools**. The **Penpower Input Tools** provides four input methods: Phonetic, Keyboard, Dictionary, and Symbol.

The commands on the upper-right corner of the toolbar are **Delete the selected character**, **Delete the character before the cursor**, **Insert a blank** and **Change line**.



Note: Before running Penpower Input Tools, make sure the WorldPenScan has been started. Otherwise you will be asked to use the WorldPenScan first.

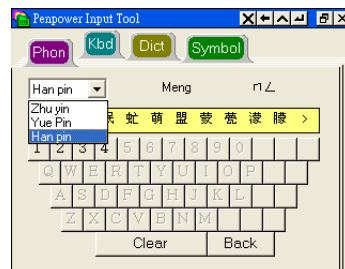
TIP: Hover your cursor on the Penpower Input Tools to displayed it in normal size. Otherwise the Penpower Input Tools will appear as a small  icon to avoid taking up space on the screen.

* Phonetic Input Tool

There are three types of phonetic input tools: Zhu yin, Yue Pin and Han pin (default). You can create your own phonetic input tool.

How to Use

1. Select one phonetic input: Han pin, Yue Pin or Zhu yin.
2. Click the screen keyboard buttons one by one.
3. The candidate characters are listed in the text buffer.

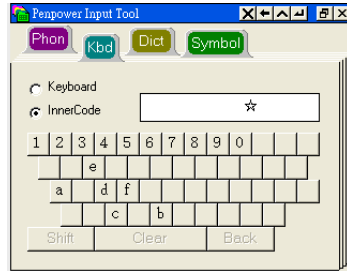




* Keyboard Input Tool

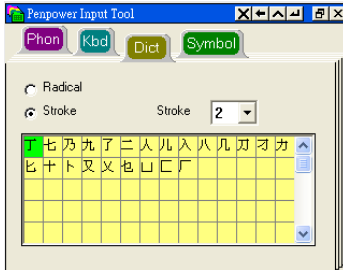
Keyboard: Simulated software keyboard.

Inner Code: e.g. The inner code of [☆] in hexadecimal is **A1B8**. Click **A 1 B 8** in order on the screen keyboard to display [☆].

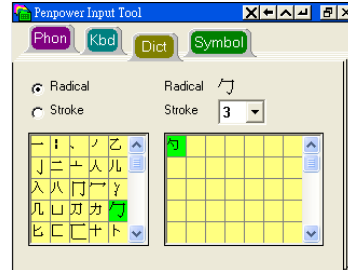


* Dictionary Input Tool

Query by stroke :

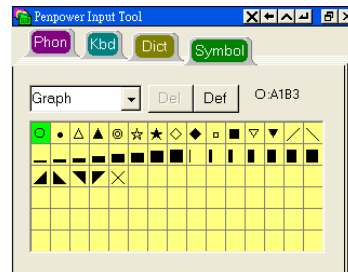


Query by radical :



* Symbol Input Tool

Special symbols are grouped on several tables. Select a table and click the symbol that would like to display. You can also customize the symbol tables.



6.12.2 Penpower Translator

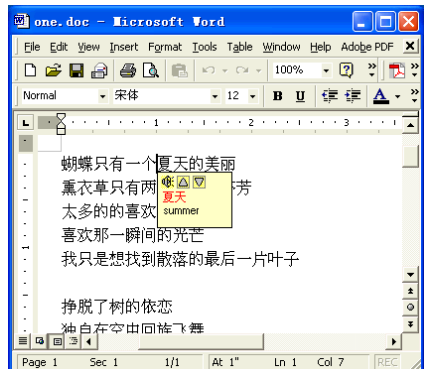
This is a Chinese-English bi-directional translation software, which includes a Chinese->English / English->Chinese dictionary lookup and a Chinese->English / English->Chinese phrase translation.

Click the **Start** button, and then select **All Programs**. Select the **WorldPenScan** and then click **Penpower Translator** to start the **Penpower Translator**.



* English Words

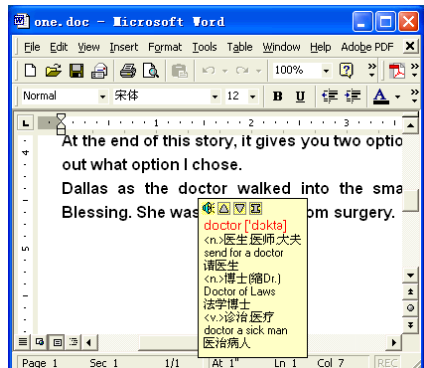
1. Click the **En. -> Ch.** button on the left.
2. At the upper-left corner in the input box, type an English word and press **Enter** to see the Chinese translation.
3. Click different tabs to look up definitions, variations, idioms and analysis.



* Chinese Characters


1. Click the **S.Ch. -> En.** button on the left.
2. At the upper left corner in the input box, input a Chinese character or phrase, and then press **Enter** to see the English explanation.

Tip: If the Chinese word you wish to look up is Traditional Chinese, select the C. Ch. -> En. translation option.

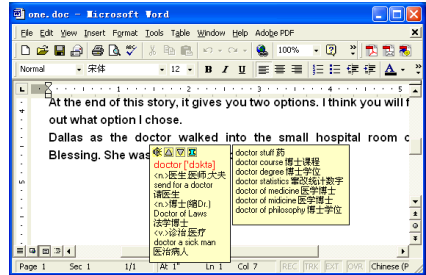





* English Article Translator

1. Click the Sentence **En. -> Ch.** button on the left.
2. In the upper left-hand corner, input the text to be translated/explained and then click  to translate.

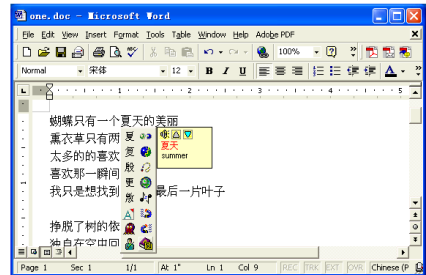
Tip: When you translate a whole article, make sure there's a period at the end of each sentence. Having a period at the end of each sentence will increase the accuracy of translation.




* Chinese Article Translator

1. Click the Sentence **S. Ch. -> En.** button on the left.
2. In the upper left-hand corner, input Chinese text, click the  button to start translation. The translation result is shown in the lower pane.

Tip: If the Chinese sentence you're looking up is in Traditional Chinese, please select the Sentence C.Ch. -> En..



Click the Speech  button. If you are looking up a single character or word, the Translator will provide its Chinese or English pronunciation. If you are translating an entire text, the Translator will read all of the content in the current input window.

The other buttons on the translator interface have the following functions:



: Previous/Next: look up the definitions for nearby words.



: Cut: cut the selected content (only available when translating an entire sentence).





: Copy: copy the selected content.

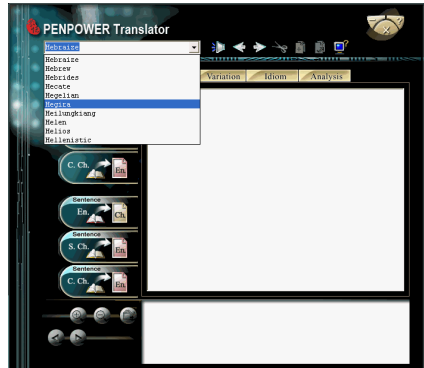


: Paste: paste the cut or copied content. (Only available when translating an entire sentence)

 : Delete: Delete all input and translation content (only available when translating an entire sentence).

 : Save: When you click the  button, the Save as dialog will appear. This will save all of the input and translated content into a new .txt file (only available when translating an entire sentence).

When you are looking up a single word you do not need to enter the entire word. If the word you wish to look up shows up in the list, use the direction keys to select that word as the input, then press **Enter** to look up that word.







* Translating Scanned Input

If you start the Translator by running the **Penpower TransEYE**, there is a pane that shows scanned image underneath the translation pane. You can make use of the **WorldPenScan** to do the inputting while the original text will be displayed in the lower pane.




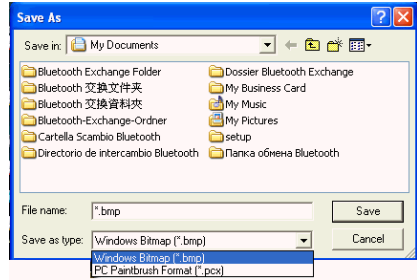
When translating a single word, scanning the word with **WorldPenScan** will let you input the complete phrase. Every press of the function button on the pen will translate the next word and so on.


Click the **Next**  button or the **Previous**  button will allow you to scroll to the next or previous character in the Translator's dictionary database, allowing you to look up multiple meanings on that word's variants.

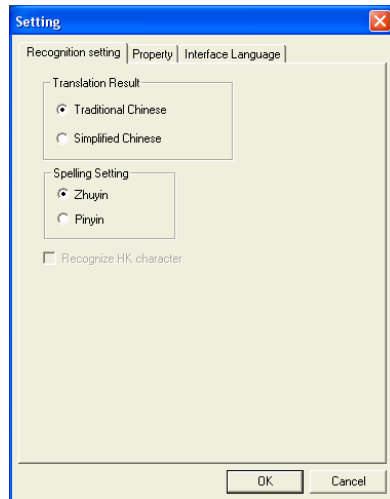
You can zoom in or out by clicking the  button or the  button to adjust the size of your scanning proportionally.




You can also save the scan as a picture by clicking . When prompted for a directory to save it in, type the filename of your choice and choose the folder to save the picture in.



Click the **System Setting**  button. On the **Setting** dialog box, you can set **Translation results** and **Spelling Setting**.



You can also translate the whole paragraph of whatever you've scanned with **WorldPenScan** by clicking the  button, which will translate whatever you have scanned into the other language. You can translate phrase by phrase, or translate the whole paragraph at one time.

Note: You will not be able to use the Previous /Next  buttons when you are in phrase translation mode.






Chapter 7 Penpower Voice Reader

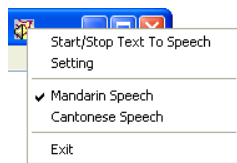
The **Penpower Voice Reader** utilizes a state of the art text-to-speech technology, it will read in fluent Mandarin or Cantonese of any articles. You can use it as a tool for fast proofreading or in teaching the correct Mandarin/Cantonese pronunciation.

7.1 Run Penpower Voice Reader

1. Click the **Start** button, and then select **All Programs**. Select the **Penpower Chinese Expert** and then select the **Penpower Voice Reader**.




2. When it starts up, there will be an icon on/off  button on the top right corner of your application, such as Word. You can select Mandarin or Cantonese.
3. You can choose a paragraph, click the  button and select **Start/Stop Text Speech**, the selected paragraph will be read out. Check your speaker if there is no sound.
4. During reading, click , and select **Start/Stop Text Speech**, it will stop reading.





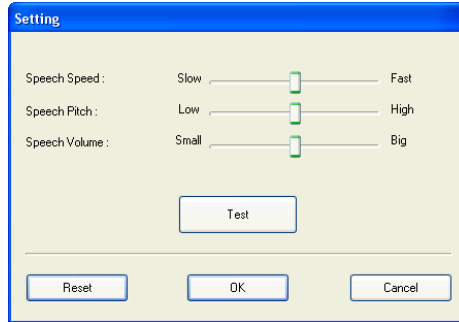
7.2 Voice Reader Settings

Click the  button, select **Setting**, the **Setting** window will appear.



Speech Speed: Adjust speech speed.

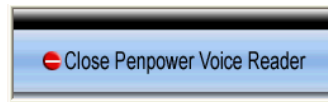
Speech Pitch: Adjust speech tone level.

Speech Volume: Adjust speech volume.



7.3 Exit Penpower Voice Reader

1. Click the  button, select **Exit**.
2. When you see the following **Close Penpower Voice Reader** image, the **Penpower Voice Reader** will turn off and the icon  on the upper right corner will disappear.



Penpower Chinese Expert V2.3

User Manual

Penpower Technology Ltd.

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