

WorldPenScan

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 Introduction

1.1 Introduction

WorldPenScan, the handheld scan device with the highest accuracy rate on the market. The WorldPenScan is a perfect scan tool for students, journalists, business people and anyone who needs to get words, sentences and printed materials for immediate editing with no wait.

1.2 Features

• The Best Scan and Translation Device

Connect to the computer through the USB port and is bundled with 3-in-1 functionality-scanning, recognition and translation.

• Minimize Your Typing Efforts

The WorldPenScan can scan over 800 words per minute into your application software such as Words, Excel, Outlook, and text editors with high accuracy rate.

• Recognize 191 Languages

The WorldPenScan can scan and recognize 191 languages, including English, French, German, Italian, Spanish, Japanese, Korean, Simplified Chinese, Traditional Chinese, and etc. For the detailed recognition language list, please refer to the appendix.

• A good Language translation and Learning Tool

By scanning words or sentences directly to other language translation websites, you will find that WorldPenScan is a wonderful friend in translating and learning language aspects.

• Ergonomic Design

The ergonomic and light design could fit all left and right-handed users and make you hold with comfort even long time scan.

• Babylon Dictionary and Translation Software

WorldPenScan Pro co-works with Babylon, the world leading provider of quick online translation, and provides:

- more than 1400 dictionaries in more than 75 languages
- more than 800 language pairs to choose from
- simple one-click translation in any application
- web page and document translation (Word, PDF, Text)



- **Support Business Mode**

The business mode supports the recognition of barcodes and fonts such as OCR-A/B, and MICR fonts. With the business mode, you can scan and recognize barcodes and numbers or characters on invoices, checks, bills, coupons, and ect.

Chapter 2 Getting Started

2.1 System Requirements

- Pentium II 300 CPU or above
- 256MB of RAM
- 250MB of available hard disk space
- Windows 7/Vista/XP OS
- CD-ROM Drive
- USB port

2.2 Hardware Specification

- Dimensions: 130mm x 37mm x 18.5mm
- Weight: 30g (excluding USB Adapter)
- Interface: USB 2.0
- Scanning speed: 15 cm/sec.
- Character size: 5~22 pt

2.2.1 WorldPenScan





2.2.2 WorldPenScan Pro



Function button:

While scanning text or images, clicking the function button will function as the **[Enter]** key on the keyboard by default. In the **[Word Scan]** mode, the function key can be used to send the next word.

Tip: You can refer Section 3.6.4 to configure the function button as Enter, Tab, Space, Click, or Double click.

Note: The hardware pictures in the manual are for reference. The color of the hardware may be different due to the version differences.

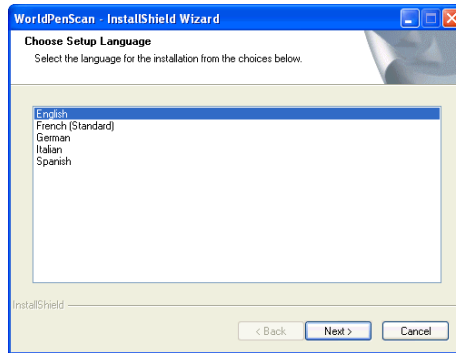
2.3 Software Installation

1. Insert the WorldPenScan setup CD into the CD-ROM drive. The installation program will start automatically. Click **[WorldPenScan]** to install WorldPenScan.

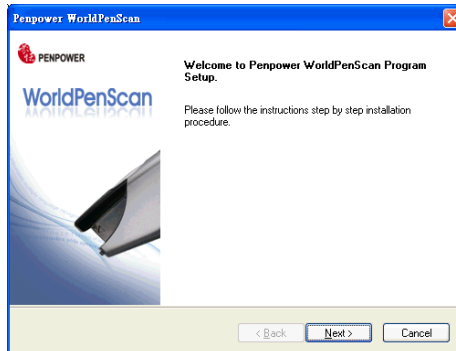


Tip: WorldPenScan Pro provides you with the Babylon online translation service . Please insert the Babylon disk to install the application .

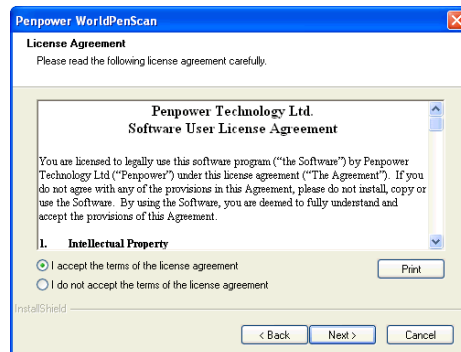
2. Please select an installation language and click **[Next]** to install.



3. Click **[Next]** to install.



4. Please read the License Agreement, select **[I accept the terms of the license agreement]** and click **[Next]** to continue.

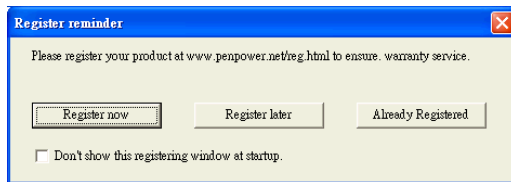




2.4 Running Penpower WorldPenScan

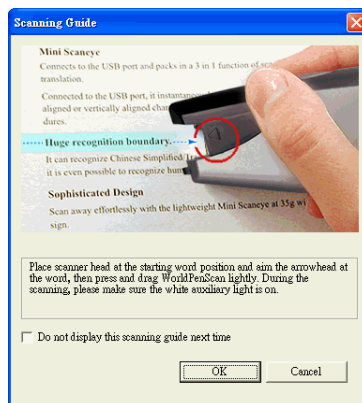
Go to [Start/All Programs/Penpower WorldPenScan/Penpower WorldPenScan] or double-click the  shortcut on the desktop to start the **WorldPenScan** toolbar. When running the **WorldPenScan** for the first time, a **Registration Reminder** will appear. Please click on **Register now** to register and receive the warranty service. You can also click **Register later** to close the reminder. When you need to register, click the **Tools** button and select **About** from the toolbar and then click on **Registration**.

Tip: If you do not need to be reminded again, you can check [Don't show this registering window at startup].



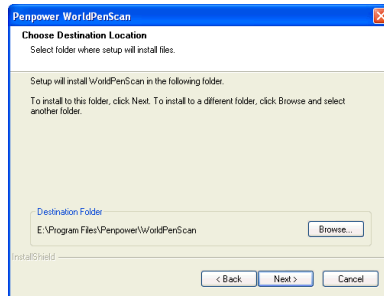
A **Scanning Guide** will appear after the registration reminder. Use the **WorldPenScan** as the guide directs.

Note: If you would not like to read the message again, you can check [Do not display this scanning guide next time], and click [OK].

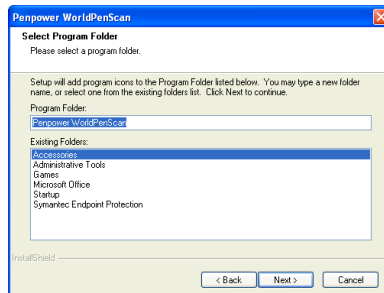




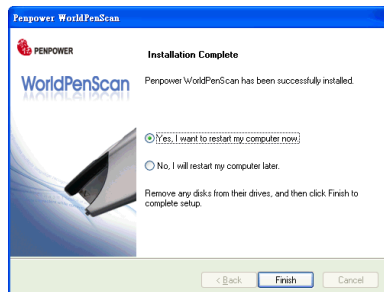
5. Select a destination folder to install the software to. Click **[Next]** to continue.



6. Choose the program folder that you want to install WorldPenScan to. If left as default, the software will create a new folder for you. Click **[Next]** to continue.



7. When the installation is finished, please restart your computer. Click **[Finish]** to restart your computer.



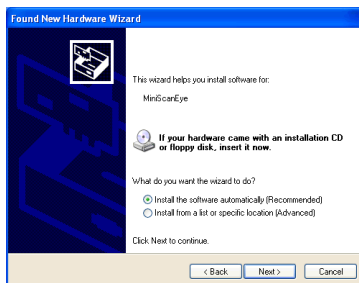
2.4 Driver Installation

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

Note: Some computers may shut down accidentally after connection. This is due to the 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.

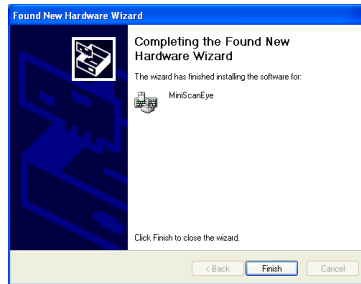


2. Select **[Install the software automatically]** and click **[Next]** to continue.





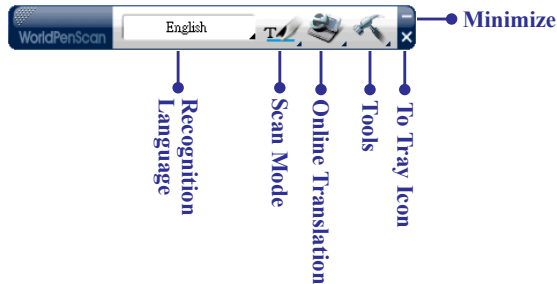
3. Click **[Finish]** to end the installation.



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

Chapter 3 Scanning and Settings

3.1 WorldPenScan Toolbar



1. **Recognition Language:** WorldPenScan can scan and recognize 191 languages, including English, French, German, Italian, Spanish, Japanese, Korean, Simplified Chinese, Traditional Chinese, and more. Click the language field to select the language you would like to scan. For more information about the recognition languages, please refer the appendix.

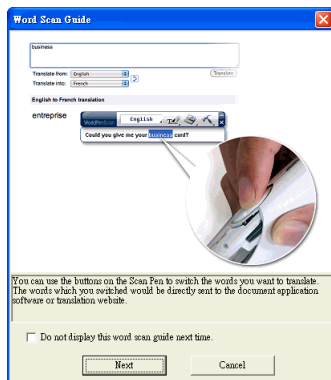


***Note:** The Recognition Language must match the language of the content for optimal accuracy.*

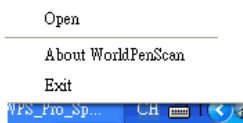
2. **Scan Mode:** WorldPenscan provides [Sentence Scan]  and [Word Scan]  modes.

- **Sentence Scan:** The **Sentence Scan** mode  is the default scan mode for scanning an article or a sentence directly. The scanned article or sentence will be recognized into text and sent to your computer. Please refer to 3.2.1 Sentence Scan for more detailed information.
- **Word Scan:** When you want to scan a word or check the meaning or translation of one word, you can click the [Scan Mode] button to select the **Word Scan** mode . Scan a word or a sentence, and then select a word to input or check the meaning or translation. Please refer to 3.2.2 Word Scan for detailed information.

***Tip:** When first time switching to the Word Scan mode, the Word Scan Guide window will appear to guide you how to use the Word Scan mode.*



3. **Online Translation** : Provide a translation function in which you can assign a translation website to translate the scanned words. Please refer to 3.3 Online Translation for more detailed information.
4. **Tools** : Provide Image Scan, Business Mode, Original Image, Settings, Help and About.
 - **Image Scan:** Select the [Image Scan] option and the scanned image or word will be sent to your computer in image format. Please refer to 3.2.3 Image Scan for more detailed information.
 - **Business Mode:** Select the [Business Mode] option to scan the text in OCR A, OCR B, MS Gothic, or Micr fonts. The fonts are common used in the invoices, checks, bills, postal codes, coupon numbers and tracing numbers etc. Please refer to 3.2.4 Business Mode.
 - **Original Image:** Display the scanned image. See 3.4 Displaying Original Image.
 - **Settings:** Provide general, recognition, online translation and interface language settings. See 3.5 Settings for more detailed information.
 - **Help:** Open this user manual.
 - **About:** See the product information.
5. **Minimize** : Click  to minimize the toolbar.
6. **Minimize to Tray Icon** : Click  minimize the toolbar into a tray icon. Double-click the tray icon on the bottom-right of the screen to open the toolbar. Double-click  to open the function menu.



3.2 Scan Mode

3.2.1 Sentence Scan

When you want to scan an article or a sentence directly into your computer, you can use the **[Sentence Scan]**  mode:

1. Select the **[Sentence Scan]**  mode from the **[Scan Mode]** button.
2. Select the language of the text that you want to scan from **[Recognition Language]**.
3. Open any word processor, for example Microsoft Word or WordPad, and then click the location where you want to input.
4. Place a document on a flat surface and place the scan tip at the front of your desired scan area. Aim the scan tip arrow at the center of the desired scan area, and then press and drag the **WorldPenScan** pen in a straight line across the area like a highlighter. During the scanning, please make sure the white auxiliary light is on.
5. Stop applying pressure to the pen to stop scanning. The scanned text is displayed in your word processor immediately.

Note: WorldPenScan is able to scan and recognize one row of characters at a time. Please place the scan tip arrow at the center of the line.

3.2.2 Word Scan

When you want to scan a word or check the meaning or translation of one word, you can use the **[Word Scan]**  mode:

1. Click the **[Scan Mode]** button to select the **[Word Scan]**  mode, an extension window will appear under the toolbar.

Tip: When first time switching to the Word Scan mode, the Word Scan Guide window will appear to guide you how to use the Word Scan mode. You can check [Do not display this word scan guide next time] to do not display it again.

2. Select the language of the text that you desire to scan from the **[Recognition Language]**.
3. Open any word processor, for example Microsoft Word or WordPad or click the **[Online Translation]**  button to open an online translation website. And then click the location where you want input.



4. Place a document on a flat surface and place the scan tip in front of the word you desire to check. Aim the arrow at the center of the desired word, then press and drag the **WorldPenScan** pen in a straight line across a word or sentence. During the scanning, please make sure the white auxiliary light is on.
5. Stop applying pressure to the pen to stop scanning. The first recognizable word will be sent to the desired word processor or translation website. The meaning or translation will be displayed in the translation website as well.
6. If you scan more than one word, you can press the **[Function Button]** on the **World-PenScan** pen to choose next recognizable word or use your mouse to highlight a word from the extension window, the selected word will be sent to the cursor location. So you can literally check the meaning or translation of your choice.

3.2.3 Image Scan

When you want to scan a picture, chart or illustration, you can use the **[Image Scan]** mode:

1. Click **[Tools]**  button and select the **[Image Scan]** option from the drop-down menu.
2. Open a word processor that is able to input images, for example Microsoft Word. Click the location where you would like to input the scanned images.
3. Place a document on the a flat surface and place the scan tip at the starting word or picture. Aim the scan tip arrow at the center of the scan area, and then press and drag the scan pen in a straight line like a highlighter. The white auxiliary light from the scan tip indicates the pen is scanning.
4. Stop applying pressure to the pen to stop scanning. The scanned image will be displayed in your word processor immediately.



3.2.4 Business Mode

The Business Mode allows you to scan barcodes, invoices, checks, bills, postal codes, coupon numbers, racing numbers, and etc. The fonts that the Business Mode supports are OCR A, OCR B, MS Gothic, and MICR fonts as the samples below:

- OCR A: 0 1 2 3 A B C a b c
- OCR B: 0 1 2 3 A B C a b c
- MS Gothic: 0 1 2 3 A B C a b c
- MICR (E-13B): 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

For barcodes, the Business Mode supports Codabar, Code 128, Code 39, Code 93, EAN 8, EAN 13, IATA 2 of 5, Industrial 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, Patch, PostNet, UCC-128, UPC-A, and UPC-E.

In order to have higher recognition accuracy, you may use the **[Business Mode]** to recognize these fonts:

1. Click **[Tools]**  button and select the **[Business Mode]** option from the drop-down menu.

***Note:** For higher recognition accuracy, before you start the Business Mode, please select the font that you want to scan in [Tools] \ [Settings] \ [Recognition Setting] \ [Business Mode]. Please refer to 3.5.2 Recognition Settings.*

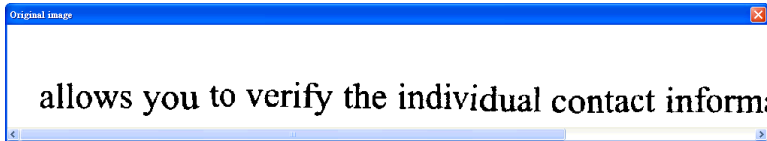
2. Open your application or any word processor, for example Microsoft Word. Click the location where you would like to input the scanned text or numbers.
3. Place a document on a flat surface and place the scan tip at the front of your desired scan area. Aim the scan tip arrow at the center of the desired scan area, and then press and drag the **WorldPenScan** pen in a straight line across the area like a highlighter. During the scanning, please make sure the white auxiliary light is on.
4. Stop applying pressure to the pen to stop scanning. The scanned text or numbers are displayed in your application or word processor immediately.

***Tip:** You can select a range of your desired scan document in the Settings to have higher recognition accuracy. Please refer to 3.5.2 Recognition Settings.*



3.4 Original Image

Click [Tools]  button and select the [Original Image] option from the drop-down menu to open the [Original Image] window. After scanning, the [Original Image] window displays the scanned image. You can check the scanned image to compare with the original text. This can help you improving your scan technique for more accurate recognition results.



Tip: You can right click on the original image to save the image to .bmp or .pcx file.

3.5 Online Translation

WorldPenScan provides online translation function for you to translate words or sentences.

1. Select the [Recognition Language] which matches the scanning words.
2. Click [Online Translation]  and then select any other online translation service.

Note: Babylon option only appears in the WorldPenScan Pro version and when the Babylon online translation is installed.

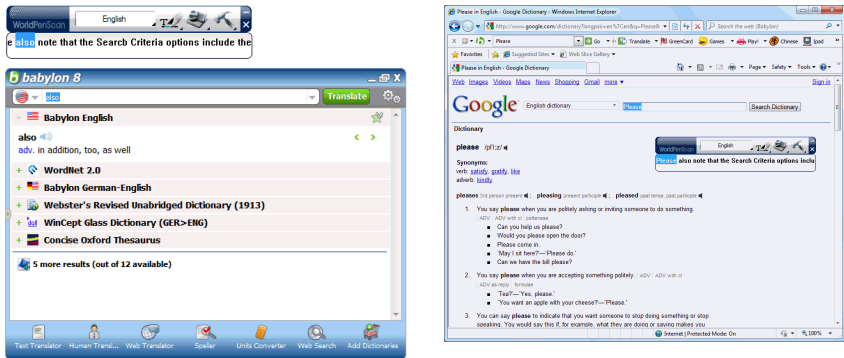


Note: Please connect to internet before using the online translation function.

Tip: You can organize website links from the Translation Settings function. Please refer to 3.6.2 Online Translation Settings for more detailed information.

3. The selected translation service will be opened, and **WorldPenScan** will be switched to the [Word Scan]  mode automatically.
4. Place a document on a flat surface and place the scan tip at the starting word. Aim the scan tip arrow at the center of the desired area, the press and drag the scan pen in a straight line. The white auxiliary light from the Scan Tip indicates the pen is scanning.

5. The translation result of the first recognized word displays in web browser.



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

Tip: Please refer to the Babylon help for operating the Babylon software.

6. If you scan more than one word, you can press the **[Function button]** on the scan pen to see the translation of the next recognizable word. You can also use your mouse to highlight a word from the extension window, the selected word will be sent to the cursor location for translating.

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

3.6 Settings

Click **[Tools]** button and select **[Settings]** from the drop-down menu to set the preferences.

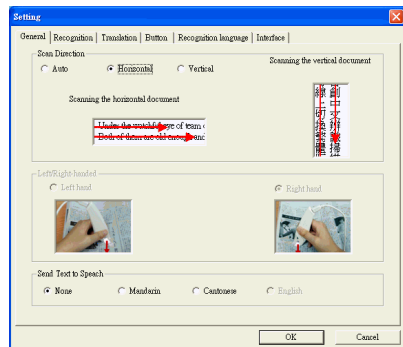
3.6.1 General Settings

In the **[General]** setting page, you can set up the scan direction, left/right-handed preference and sound.

Scan Direction

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

When choosing Traditional Chinese, Simplified Chinese, Japanese, or Korean as the recognition language, you can accord to the document you want to scan to choose the scan direction manually.



Scanning Horizontal Text

When scanning horizontal text, you can choose the **[Horizontal]** option. Place the pen on the text or image, move the pen left-to-right or right-to-left when scanning.



Left hand:
Scan from right-to-left or from left-to-right



Right hand:
Scan from left-to-right or from right-to-left

Note: The Left/Right-handed option is only available when you select the vertical direction.

Scanning Vertically Aligned Text

When scanning vertically aligned text, you can choose [**Vertically**] and then select [**Left-hand**] or [**Right-hand**]. You may scan the text in a straight top-to-bottom fashion. Align the Scan Tip arrow on your pen to the center of the characters.



Left Hand

Left hand: Scan from up to down



Right Hand

Right hand: Scan from up to down

***Note:** WorldPenScan is able to scan and recognize one row of characters at a time.*

Please place the pen in such a manner so that the Scan Tip arrow is at the center of the line of text.

Send Text to Speech

When choosing the Traditional Chinese or Simplified Chinese as the language recognition, you can choose to listen the speech of the recognized word in Mandarin or Cantonese.

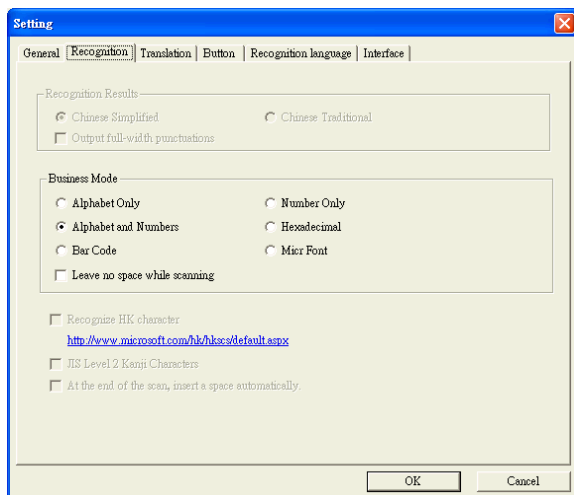
When choosing the English as the language recognition, you can choose to listen the speech of the recognized English word.

***Note:** Japanese and Korean doesn't support the text-to-speech function.*



3.6.2 Recognition Settings

In the **[Recognition Setting]** page, you can set up the recognition results, recognition contents and at the end of scan, insert a space automatically.



Recognition Results

When choosing Chinese Traditional or Chinese Simplified as the language recognition, you can choose to output the recognized characters in Traditional Chinese or Simplified Chinese. Check the **[Output full-width punctuations]** option to set the punctuations as full-width.

Business Mode

When using the business mode, you can accord with the scan content to choose the scan range as below for higher recognition accuracy.

- Alphabet only: Recognize from A to Z and from a to z.
- Numbers only: Recognize from 0 to 9.
- Alphabet & Numbers: Recognize from A to Z, from a to z and from 0 to 9.
- Hexadecimal: Recognize from A to F, from a to f and from 0 to 9.
- Barcodes: Recognize barcodes.
- Micr Text: Recognize Micr font Text.

You can also check **[Leave no space while scanning]** to scan without leaving any space.

Recognize HK Character

When choosing the Chinese Traditional as the language recognition, you can check the **[Recognize HK Character]** to recognize Hongkong characters. If you do not need to recognize Hongkong characters, please do not check it for higher recognition accuracy. You can connect to the <http://www.microsoft.com/hk/hkses/default.aspx> to check the Hong Kong characters list.

JIS Level 2 Kanji Characters

When choosing the Japanese as the language recognition, you can check the **[JIS Level 2 Kanji Characters]** to recognize the JIS level 2 Kanji characters. If you do not need to recognize JIS level 2 Kanji characters, please do not check it for higher recognition accuracy.

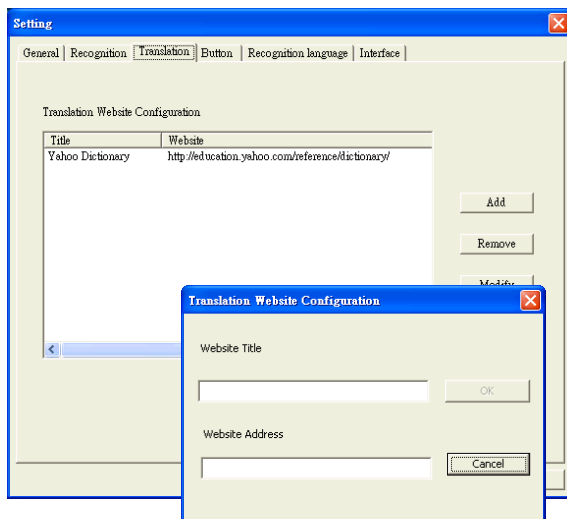
At the End of the Scan, insert a Space Automatically

When choosing the English, French, German, Italian or Spanish as the language recognition, you can check the **[At the end of the scan, insert a space automatically]**. While scanning text, the system will automatically add a space at the end of the scan.



3.6.3 Online Translation Settings

In the **[Translation]** setting page, you can add, remove, and modify online translation websites. The websites will be shown under the **[Online Translation]**  menu of the toolbar.

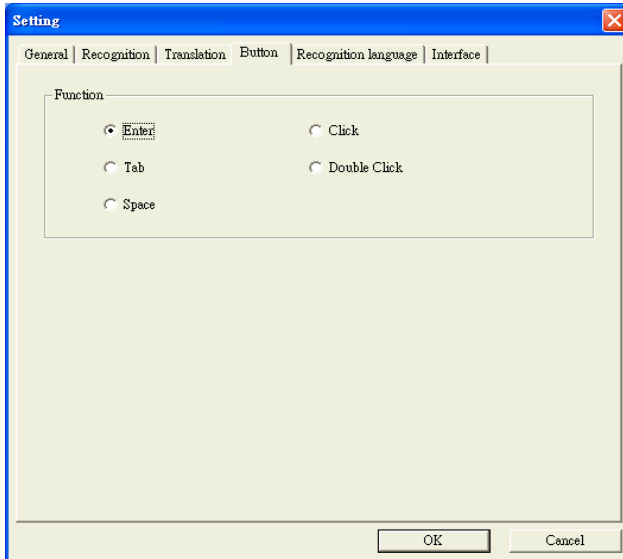


Click the **[Add]** button to open the Translation Website Setup window. Input the translation website name and its URL address, then click **[OK]**. You can also modify or remove a website by clicking the **[Modify]** button or the **[Remove]** button.

You will find the changes when clicking **[Online Translation]**  button from the toolbar.

3.6.4 Button Configuration Settings

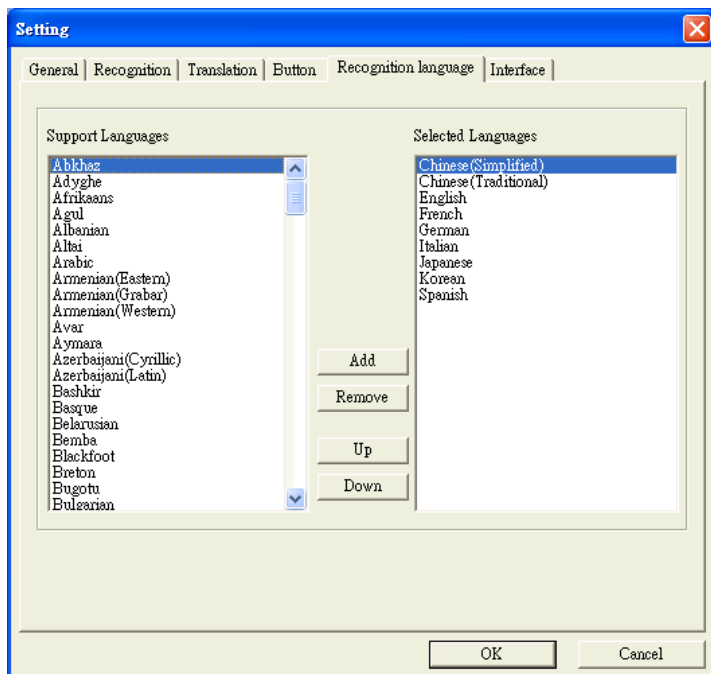
The default function of Function Button is Enter. You can replace Enter by Tab, Space, Click, or Double Click. Select the Button Configuration tab and then you can select which function you want the Function Button to be.





3.6.5 Recognition Language Settings

WorldPenScan provides 191 recognition languages for you to choose. In the toolbar, you can drag down the recognition menu to select the recognition language you want.



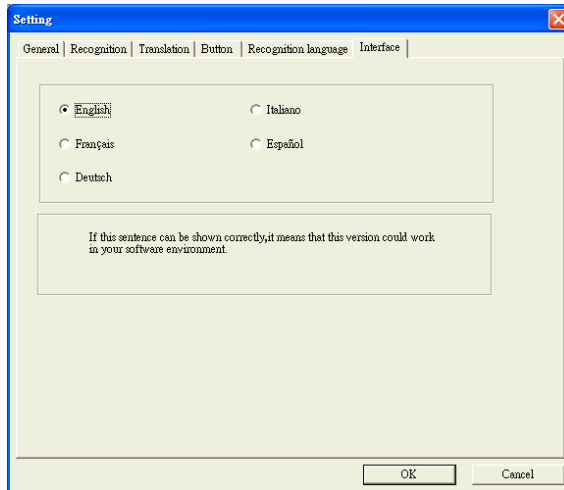
You can modify the recognition language menu in the Recognition Language tab of Setting. In the Recognition Language Tab, the left column contains 191 recognition languages for you to choose. The languages appear in the right column will all appear on the recognition language drag down menu on the tool bar. In this tab, you can select the recognition language in the left column and click [add] to add it into the right column. If you want to remove a language from the right column, you can select the language you want to remove and click [Remove] to remove it from the right column.

*Tip: Select a language in the right column and click **Up** or **Down**, you can change this language's order.*

3.6.6 Interface Language Settings

In the **[Interface]** setting tab, you can choose the interface version as English, Japanese or Korean. After choosing a language, check the description area underneath.

If the description sentence does not display properly, which means your Windows OS does not support the given language display. Please choose another language.



Appendix: Recognition Languages

Abkhaz

Adyghe

Afrikaans

Agul

Albanian

Armenian (Eastern)

Armenian (Grabar)

Armenian (Western)

Avar

Aymara

Azerbaijani (Cyrillic)

Azerbaijani (Latin)

Bashkir

Basq

Belarusian

Bemba

Blackfoot

Breton

Bugotu

Bulgarian

Buryat

Catalan

Cebuano

Chamorro

Chechen

Chinese (Simplified)

Chinese (Traditional)

Chukchee

Chuvash

Corsican

Crimean Tatar

Croatian
Crow
Czech
Dakota (Sioux)
Danish
Dargwa
Dungan
Dutch (Belgium)
Dutch (Netherlands)
English
Eskimo (Cyrillic)
Eskimo (Latin)
Estonian
Even
Evenki
Faroese
Fijian
Finnish
French
Frisian
Friulian
Gagauz
Galician
Ganda
German
German (Luxembourg)
German (new spelling)
Greek
Guarani
Hani
Hausa
Hawaiian
Hungarian

Icelandic
Indonesian
Ingush
Irish
Italian
Japanese
Jingpo
Kabardian
Kalmyk
Karachay-balkar
Karakalpak
Kasub
Kawa
Kazakh
Khakass
Khanty
Kikuyu
Kirghiz
Kongo
Korean
Koryak
Kpelle
Kumyk
Kurdish
Lak
Latin
Latvian
Lezgi
Lithuanian
Luba
Macedonian
Malagasy
Malay (Malaysian)

MalinkeMaltese
Mansi
Maori
Mari
Maya
Miao
Minangkabau
Mohawk
Moldavian
Mongol
Mordvin
Nahuatl
Nenets
Nivkh
Nogay
Norwegian (Bokmal)
Norwegian (Nynorsk)
Nyanja
Ojibway
Old English
Old French
Old German
Old Italian
Old Spanish
Ossetian
Papiamento
Polish
Portuguese (Brazil)
Portuguese (Portugal)
Provencal
Quechua
Rhaeto-Romanic

Romanian
Romany
Rundi
Russian
Russian (Old Spelling)
Rwanda
Sami (Lappish)
Samoan
Scottish Gaelic
Selkup
Serbian (Cyrillic)
Serbian (Latin)
Shona
Slovak
Slovenian
Somali
Sorbian
Sotho
Spanish
Sunda
Swahili
Swedish**Tabasaran**
Tagalog
Tahitian
Tajik
Tatar
Tok Pisin
Tongan
Tswana
Tun
Turkish**Turkmen**
Tuvinian
Udmurt

Uigur (Cyrillic)

Uigur (Latin)

UkrainianUzbek (Cyrillic)

Uzbek (Latin)

Welsh

Wolof

XhosaYakut

Zapotec

Zulu

Esperanto

Ido

Interlingua

Occidental

Arabic numbers

Arabic-Indian numbers

Basic

C/C++

COBOL

Fortran

JAVA

Pascal

Simple chemical formulas

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