WorldPenScan Series
User Manual

Penpower Technology Ltd.
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FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However,there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

CE Warning

The 20cm safe distance from antenna to the user shall be maintained.

< IC RSS-GEN 7.1.5>Industry Canada Caution

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'IndustrieCanadaapplicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

Contents

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 series, the best input device, scans and recognizes 193 languages such as Chinese , English, Japanese, Korean, French, German, Italian 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.

1.2 Features

- **Recognition in nearly 200 languages**

    The WorldPenScan can scan and recognize nearly 200 languages, including English, French, German, Italian, Spanish, European, and East Asia characters.

- **Business Mode**

    The WorldPenScan has business mode, which can recognize bar codes and bank fonts (OCR-A, OCR-B, and MICR). An ideal product for business.

- **Output to multiple applications**

    The WorldPenScan can be used in any editing applications, such as Word, Excel, Outlook…etc. You can get the result instantly.

- **Multiple Language Translation**

    By sending the scanned and recognized words or sentences directly to on-line translators, you can instantly see the translation results by one click.

- **Offline bidirectional Chinese to English translation**

    Come with offline translation software, Transtar, which can translate phrases or characters from English to Chinese or vice versa. With a read back function which reads out your document to you aloud.

- **Scan image**

    The WorldPenScan lets you scan and save the images into your document.

Chapter 2 Getting Started

2.1 System Requirements

- Intel based Macintosh
- Mac OS X 10.6 or later
- USB port / Bluetooth module(WorldPenScan BT)

2.2 Hardware Specification

2.2.1 WorldPenScan

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

Function Button

Scan tip

Scan Button

USB Port

WorldPenScan

Function button:

　　While scanning text or images, clicking the function button will function as the **[Enter]** key on the keyboard.

Tip: You can refer Section 3.6.1 to configure the function button as Enter, Tab, Space, Click, or Double click.

## 2.2.2 WorldPenScan BT

- Dimensions: 130mm x 37mm x 18.5mm

- Weight: 35g

- Interface: USB 2.0/ Bluetooth v2.1+EDR

- Built-in lithium polymer rechargeable battery

- Voltage and amperage: 4.75-5.25V (<100mA)

- Scanning speed: 15 cm/sec.

- Character size: 5~22 pt

Function button:

While scanning text or images, clicking the function button will function as the **[Enter]** key on the keyboard.

Tip 1: You can refer Section 3.6.1 to configure the function button as Enter, Tab, Space, Click, or Double click.

Tip 2: For first time use, please charge pen scanner over USB. It takes around 5 hours to be fully charged. You can see the battery status in [Settings] > [Hardware info].

2.3 Software Installation

1. Insert the **WorldPenScan/ WorldPenScan BT** setup CD into the CD-ROM drive. Run the **Setup** and click **[WorldPenScan]** / **[WorldPenScan BT]**on the Installation window to install **WorldPenScan/ WorldPenScan BT**. (WorldPenScan BT for example.)
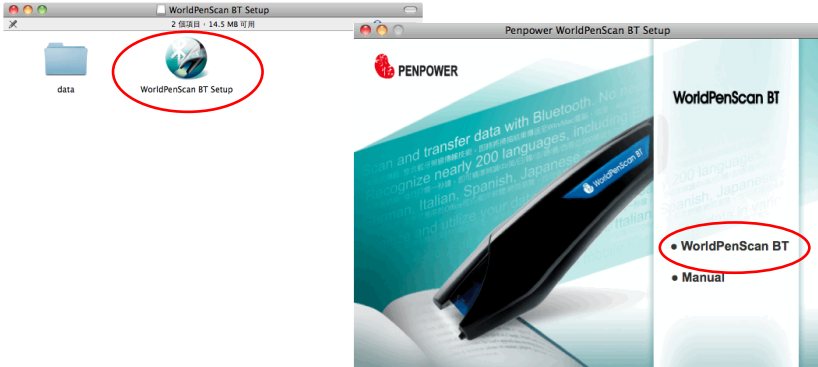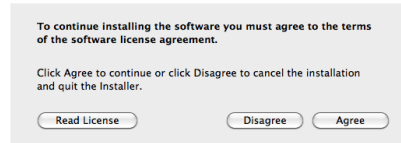

2. Please click **[Continue]** to install.
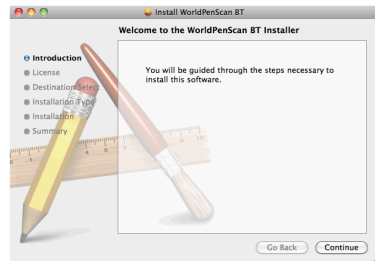
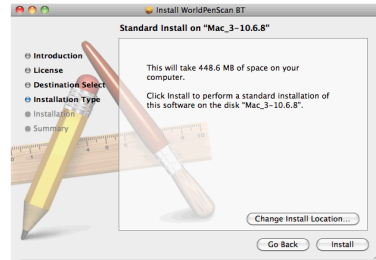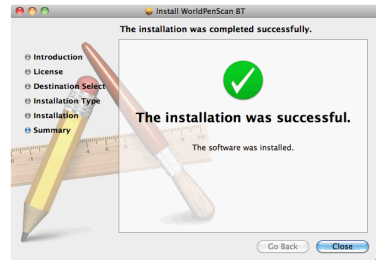3. Please read the License Agreement, and click **[Continue]**.
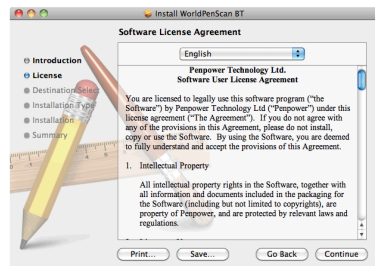
4. Click **[Agree]** to accept the license agreement.

To continue installing the software you must agree to the terms of the software license agreement.

Click Agree to continue or click Disagree to cancel the installation and quit the Installer.

Read License   Disagree   Agree

5. Confirm the installation location and click **[Install]** to continue.

Install WorldPenScan BT

Standard Install on "Mac_3–10.6.8"

○ Introduction
○ License
○ Destination Select
○ Installation Type
○ Installation
○ Summary

This will take 448.6 MB of space on your computer.

Click Install to perform a standard installation of this software on the disk "Mac_3–10.6.8".

Change Install Location...

Go Back   Install

6. Click **[Close]** to finish the installation process.

Install WorldPenScan BT

The installation was completed successfully.

○ Introduction
○ License
○ Destination Select
○ Installation Type
○ Installation
○ Summary

✓

The installation was successful.

The software was installed.

Go Back   Close

2.4 Launching WorldPenScan

Run **[Go]/[Applications]/[WorldPenScan/ WorldPenScan BT]/[WorldPenScan/ WorldPenScan BT]** to launch **WorldPenScan** or **WorldPenScan BT**.
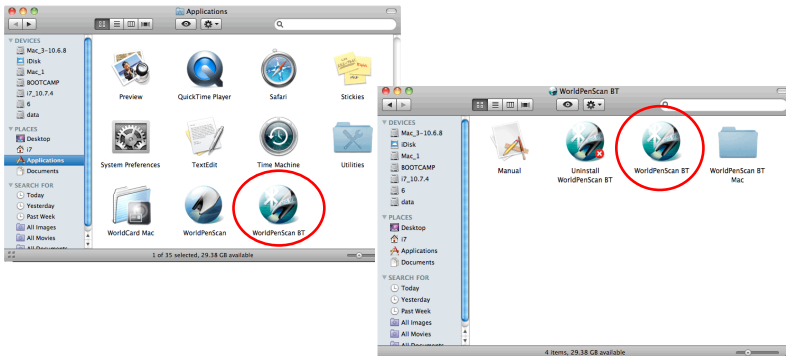
2.5 Registration

When you first time run the **WorldPenScan** series, a registration reminder will appear. Please click on **[Register now]** to register and ensure 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 **[Register]**. If you have registered, please tap [Have Been Registered].

Tip: If you do not need to be reminded again, you can check **[Don't show this page at startup].**
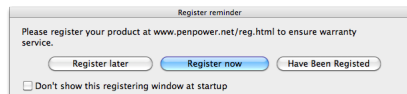
2.6 Scanning Guide

A **Scanning Guide** will appear after the registration reminder. Use the **World-PenScan** series 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].**
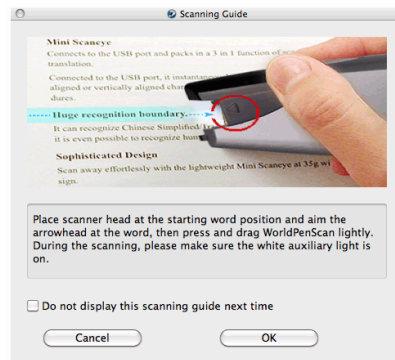
2.7 Connect to Pen Scanner

You can plug pen scanner into your computer's USB port via the USB cable to use WorldPenScan or WorldPenScan BT. Besides, WorldPenScan BT can be connected with computer via Bluetooth for use. Please follow the instructions to pair your computer and pen scanner with Bluetooth at first time use.

1. Press the function button on pen scanner until the status light blinks. When the status light blinks, you can begin to pair the computer with pen scanner.

2. Launch WorldPenScan BT and click **[Tools]** button to select **[Settings]** from the drop-down menu. Then go to the **[Hardware info]** page.

3. Click [Pair].
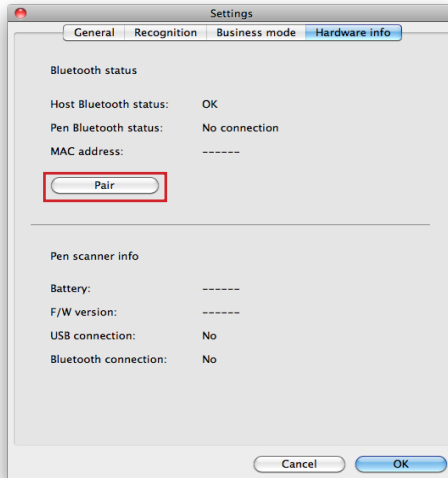
4. Select **[WorldPenScan]** on **[Bluetooth Setup Assistant]** and click **[Continue]**.
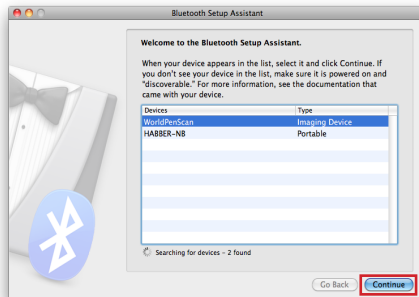
5. The system will remind you that the pairing attempt was unsucceful. Please click on **[Passcode Options]** on the left buttom; then select **[Use a specific passcode]** and enter the pen scanner's default passcode: 1234.
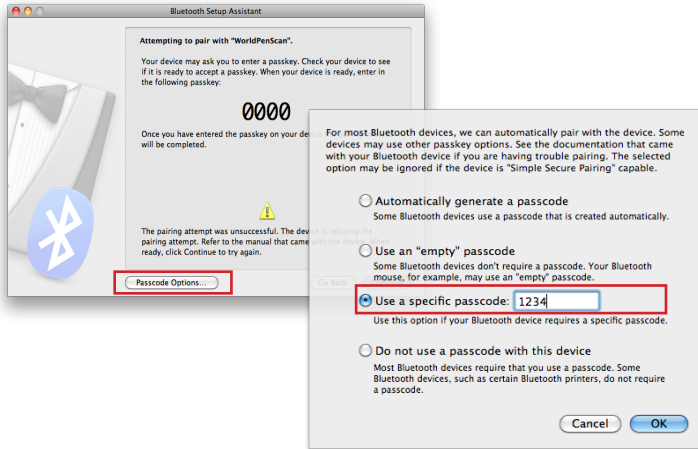

6. Then, the pen scanner will connect to your PC automatically. When pen scanner is paired with your PC successfully, the status light on pen scanner blinks slowly (blink every 3 seconds), and the pen scanner will connect with WorldPenScan BT automatically. You can begin to use WorldPenScan BT when the pen bluetooth status changed to **[Paired and connected]**.
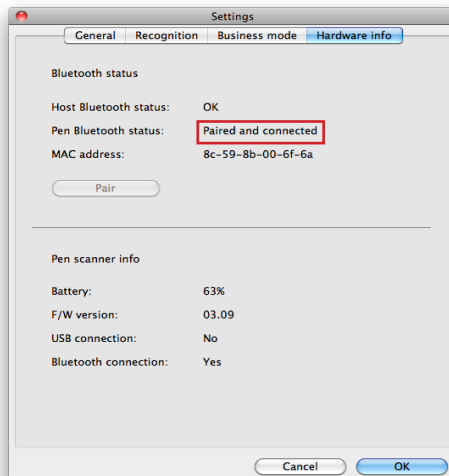
Note 1: Long press the function button on pen scanner will turn off pen scanner. Next time you want to use WorldPenScan BT, please shortly press function button to turn on pen scanner. The pen scanner will connect to WorldPenScan BT software automatically. There is no need to pair your computer and pen scanner again.

Note 2: If your computer has paired with pen scanner but cannot to connect to pen scanner for use, you can open Bluetooth preferences to remove [WorldPenScan] and follow the instructions to pair your computer and pen scanner again.
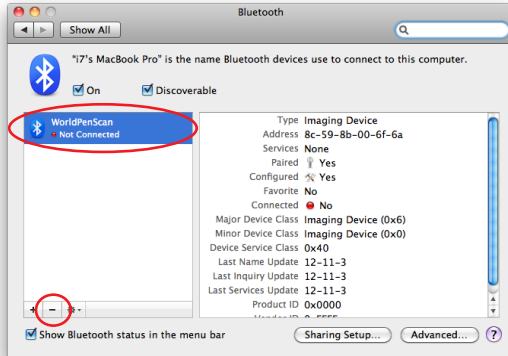
Note 2: If pen scanner is not connected with the software nor executed more than 10 minutes, or is connected with the software but not executed more than 30 minutes, the pen scanner will automatically shut down to save power.

Chapter 3 Scanning and Settings

3.1 WorldPenScan Toolbar
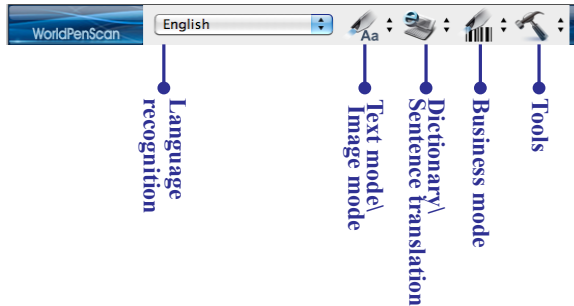
1. **Language Recognition: WorldPenScan** can recognize Chinese(Simplified), Chinese (Traditional), English, French, German, Italian, Japanese, Korean and Spanish text. Click up and down button and select the language you would like to scan.

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

2. **Text mode:** The **[Text mode]** is the default scan mode for scanning an article or a sentence directly. The scanned word or sentence will be recognized and sent as typed text to your computer. Please refer to 3.2.1 **Text Mode** for more detailed information.

3. **Image mode:** You can select **[Image mode]** in the drop-down menu from the button to scan images or text. They will be sent to your computer in image formats. Please refer to 3.2.2 **Image Mode** for more detailed information.

4. **Dictionary:** Selecting **[Dictionary]** in the drop-down menu from the button can provide you the translation result of every scanned word. Please refer to 3.3 **Online Translation** for more detailed information.

5. **Sentence translation:** Selecting **[Sentence translation]** in the drop-down menu from the button ![icon] : will provide the translations of the sentences you scan. Please refer to 3.3 **Online Translation** for more detailed information.

6. **Business Mode** ![icon] **:** You can select **[Barcode]**, [**MICR]**, or [**OCR A/B]** from **Business Mode**. These modes allow you to scan barcodes, invoices, checks, bills, postal codes, coupon numbers, and racing numbers. In order to have higher recognition accuracy, you may use the **Business mode** to recognize different documents. Please refer to 3.4 **Business Mode** for more detailed information.

7. **Tools** ![icon] **:** Provide Original Image, Settings, Help and About WorldPenScan series.

   . **Original Image:** Display the scanned image. See 3.5 Original Image.

   . **Settings:** Provide general, recognition, and business mode settings. See 3.7 Settings for more detailed information.

   . **Help:** Open this user manual.

   . **About:** See the product information.

3.2 Scan Text and Image

3.2.1 Text Mode

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

1. Select **[Text mode]** in the drop-down menu from the button .

2. Select the language of the text that you want to scan from [**Language recognition**].

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 pen scanner 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 text that the pen has scanned will be displayed in your word processor immediately.

Note: WorldPenScan series 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 Image Mode

When you want to scan text or images into your computer in image formats, you can use [Image mode] .

1. Select **[Image mode]** in drop-down menu from the button .

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 scan pen to stop scanning. The scanned picture will be displayed in your word processor in an image format.

3.3 Online Translation

WorldPenScan series provides online translation function to translate scanned words and sentences by **[Dictionary]** and **[Sentence Translation]**. WorldPenScan series collects the translations results from websites and display them in its translation window.

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

3.3.1 Dictionary

1. Select **[Dictionary]** in the drop-down menu from the button.

2. Select the language you want to translate from and the language you want to translate to.

3. Aim the scan tip arrow at the center of the desired scan area, and then press and drag the pen scanner 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 scan pen to stop scanning. The word and its translation result will be displayed in the window as below. At the bottom of the window, you can see the source of the translation. 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.
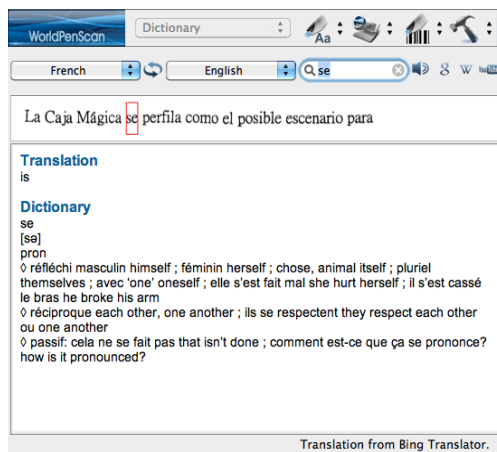
5. The translated word will also be shown in the search box. You can click to listen to the pronunciation of this word or click to search for more information on Google, Wikipedia, or YouTube. You can also type in the search bar to find more information.

3.3.2 Sentence Translation

1. Select **[Sentence translation]** in the drop-down menu from the button 🐝 ⋮.

2. Select the language you want to translate from Original: [French ▾] and the language you want to translate to Translation: [English ▾].

3. Aim the scan tip arrow at the center of the desired scan area, and then press and drag the pen scanner in a straight line across the area like a highlighter. During the scanning, please make sure the white auxiliary light is on. The original image, scanned sentence, and translation result will be displayed automatically in the window as below.

4. You can click 🖊 to delete the contents, click ✉ to send the scanned text out by e-mail, and click 🔊 to listen to the pronunciation.
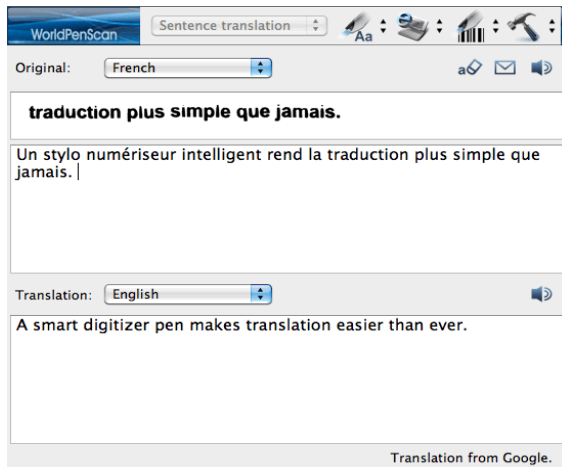
Tip: You can select words in the sentence and see their translations.
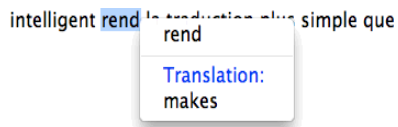
3.4 Business Mode

The Business Mode allows you to scan barcodes, invoices, checks, bills, postal codes, coupon numbers and racing numbers etc.

The fonts that the Business Mode supports are OCR A, OCR B , MICR, and more fonts as the samples below:

> OCR A: 0123ABCabc
> OCR B: 0123ABCabc
> MS Gothic: 0123ABCabc
> MICR : 123⑆⑈⑇⑆⑈⑇

The barcodes that the Business Mode supports are 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.

1. Select **[Barcode], [MICR], or [OCR A/B]** in the drop-down menu from the button 📊.

Note: For higer recognition accuracy, before you start the Business Mode, please select the font that you want to scan in [Tools] \ [Settings] \ [Business Mode]. Please refer to 3.7.2 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 pen scanner 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.

Note 1: When scanning barcodes, please aim pen scanner at the upper side of barcodes, not at the center, to have higher recognition accuracy.

Tip: You can select a range of your desired scan document in the Settings to have higher recognition accuracy. Please refer to 3.7.3 Recognition Settings.

3.5 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.

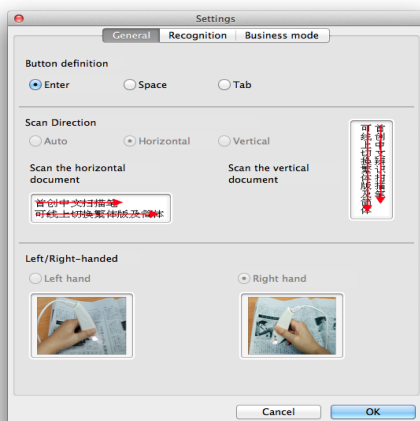*Tip: You can click on the original image to save the image file.*

3.6 Settings

Click **[Tools]** ✎ ⋮ from the toolbar and select **[Settings]** from the drop-down menu to set up the general, recognition and online translation settings.

3.6.1 General Settings

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

<u>Button Definition</u>

The default function of Function Button is Enter. You can replace Enter by Space and Tab. Select the options under Button definition and then you can select which function you want the Function Button to be.

<u>Scan Direction</u>

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

When choosing Chinese(Traditional), Chinese(Simplified), Japanese or Korean as the language recognition, 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. Hold the pen scanner firmly, as you would hold a highlighter, while the Pen's tip is at an angle of between 70 and 80 degrees to the page. Align the Scan Tip arrow on your pen to the center of the characters. Then move the pen left-to-right or right-to-left to scan.

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: Penpower WorldPenScan series 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.

Scanning Vertical Text

When scanning vertically aligned text, you can choose **[Vertically]** and then select **[Left-hand]** or **[Right-hand]**. To scan the text, please hold the pen firmly as you hold a high-lighter, with the pen tip at an angle between 70 to 80 degrees to the page. Align the Scan Tip arrow on your pen to the center of the characters.
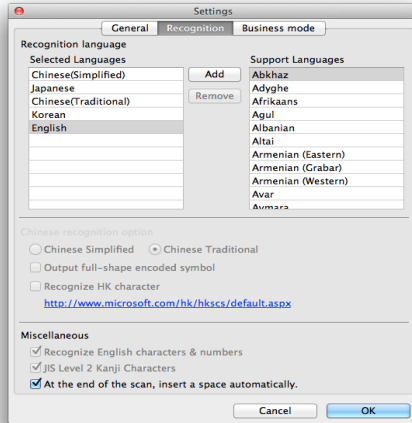

Left Hand

Right Hand

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

3.6.2 Recognition Settings

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

Recognition Languages

WorldPenScan series provides 193 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 right column contains 193 recognition languages for you to choose. The languages appear in the left 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 right column and click [add] to add it into the left column. If you want to remove a language from the left column, you can select the language you want to remove and click [Remove] to remove it from the left column.

Chinese Recognition Option

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 punctionations as full-width. 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/hkscs/default.aspx to check the Hong Kong characters list.

Recognize English characters & numbers

You can select **[Recognize English characters & numbers]** to make WorldPenScan recognize English characters and numbers when choosing Traditional Chinese, Simplified Chinese, Japanese or Korean as the language recognition,

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 Business Mode

When using the business mode, you can accord with the scan content to choose the scan mode as below for higher recognition accuracy and the font the mode supports will show in the window.

- Barcode: Recognize barcodes.
- MICR (E-13B): Recognize MICR font Text.
- OCR A/B: Recognize OCR A/B font Text. (The options below are only for OCR A/B)
    - 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.
    - Leave no space while scanning: Without leaving any space while scanning.
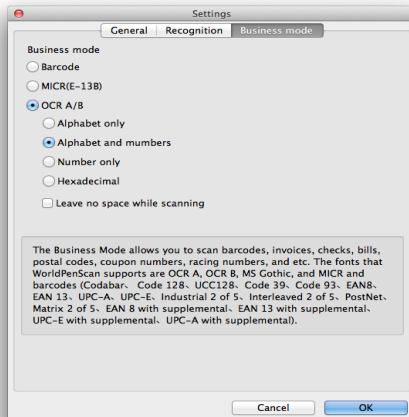
3.6.4 Hardware Information (For WorldPenScan BT)

In [Hardware info] page, you can view the Bluetooth status and pen status.

- Host Bluetooth status: Show whether the Bluetooth of your computer is turned on or not.
- Pen Bluetooth status: Show the connecting status of pen scanner.
- Pair: Press this button to pair your computer and pen scanner. For more information, please refer to 2.7.
- MAC Address: The address means the identification of the pen scanner.
- Pen status: Show the status of pen scanner, including battery status, F/W version, USB connection status, and Bluetooth connection status.
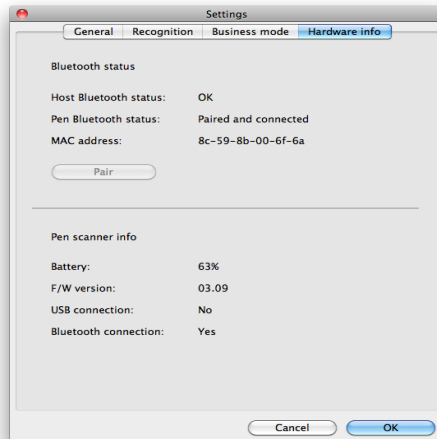
Appendix: Recognition Languages

Abkhaz	Crimean Tatar
Adyghe	Croatian
Afrikaans	Crow
Agul	Czech
Albanian	Dakota (Sioux)
Altai	Danish
Armenian (Eastern)	Dargwa
Armenian (Grabar)	Dungan
Armenian (Western)	Dutch (Belgium)
Avar	Dutch (Netherlands)
Aymara	English
Azerbaijani (Cyrillic)	Eskimo (Cyrillic)
Azerbaijani (Latin)	Eskimo (Latin)
Bashkir	Estonian
Basque	Even
Belarusian	Evenki
Bemba	Faroese
Blackfoot	Fijian
Breton	Finnish
Bugotu	French
Bulgarian	Frisian
Buryat	Friulian
Catalan	Gagauz
Cebuano	Galician
Chamorro	Ganda
Chechen	German
Chinese (Simplified)	German (Luxembourg)
Chinese (Traditional)	German (new spelling)
Chukchee	Greek
Chuvash	Guarani
Corsican	Hani

Hausa	Macedonian
Hawaiian	Malagasy
Hungarian	Malay (Malaysian)
Icelandic	Malinke
Indonesian	Maltese
Ingush	Mansi
Irish	Maori
Italian	Mari
Japanese	Maya
Jingpo	Miao
Kabardian	Minangkabau
Kalmyk	Mohawk
Karachay-balkar	Moldavian
Karakalpak	Mongol
Kasub	Mordvin
Kawa	Nahuatl
Kazakh	Nenets
Khakass	Nivkh
Khanty	Nogay
Kikuyu	Norwegian (Bokmal)
Kirghiz	Norwegian (Nynorsk)
Kongo	Nyanja
Korean	Ojibway
Koryak	OldEnglish
Kpelle	OldFrench
Kumyk	OldGerman
Kurdish	OldItalian
Lak	OldSpanish
Latin	Ossetian
Latvian	Papiamento
Lezgi	Polish
Lithuanian	Portuguese (Brazil)
Luba	Portuguese (Portugal)

Provencal	Tswana
Quechua	Tun
Rhaeto-Romanic	Turkish
Romanian	Turkmen
Romany	Tuvinian
Rundi	Udmurt
Russian	Uigur (Cyrillic)
Russian (Old Spelling)	Uigur (Latin)
Rwanda	Ukrainian
Sami (Lappish)	Uzbek (Cyrillic)
Samoan	Uzbek (Latin)
Scottish Gaelic	Welsh
Selkup	Wolof
Serbian (Cyrillic)	Xhosa
Serbian (Latin)	Yakut
Shona	Zapotec
Slovak	Zulu
Slovenian	Esperanto
Somali	Ido
Sorbian	Interlingua
Sotho	Occidental
Spanish	Arabic numbers
Sunda	Arabic-Indian numbers
Swahili	Basic
Swazi	C/C++
Swedish	COBOL
Tabasaran	Fortran
Tagalog	JAVA
Tahitian	Pascal
Tajik	Simple chemical formulas
Tatar	
Tok Pisin	
Tongan	

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