



# Handwriting Data Collection and Conversion System

User Manual Ver.1.0

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## Introduction

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### What is Handwriting Data Collection and Conversion System?

This application software (hereafter called “HCC”) enables to convert the information written on the digital notepad into CSV file, and transfer the data to the format created and being set user side.

### System Requirement

PC Environment	Intel Pentium4 CPU with 2GHz or more
	Availability of 1024 x 768 or more display
	PC/AT Compatible machine equipped with USC connector
Compatible OS	Windows VISTA / XP
Compatible Digital Notepad	Technote TN-A401 (A4 supported) / TN-A501 (A5 supported)

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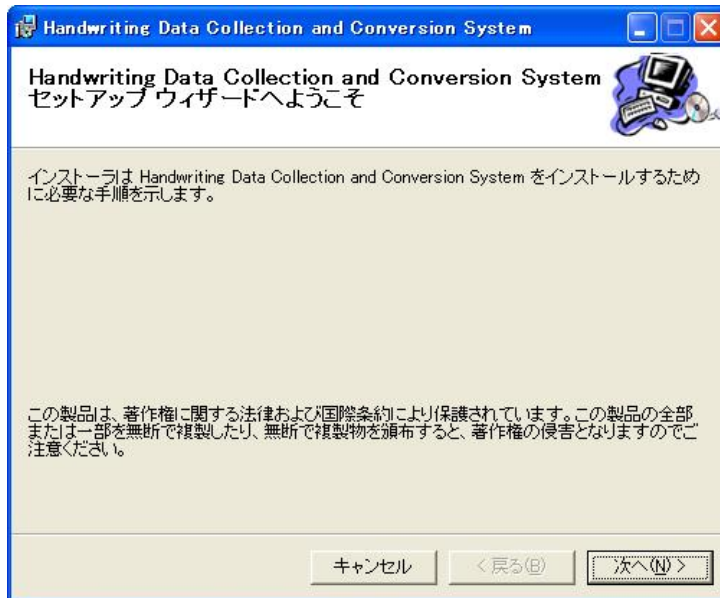
Note: The specification stated in this document subject to change without prior notice.

## Software Installation

- Insert the application CD into the CD-ROM drive tray.

The contents of application CD will be read automatically and “Setup Wizard” will be activated.

Click **NEXT (N) >** after confirming the displayed contents.



- Specify the destination of HCC installation

The default installation destination is set to “C:¥Program Files¥KAIREN¥HCC¥”.

When changing the installation destination, click **Reference (R)** and select the installation folder.



- Confirm Installation

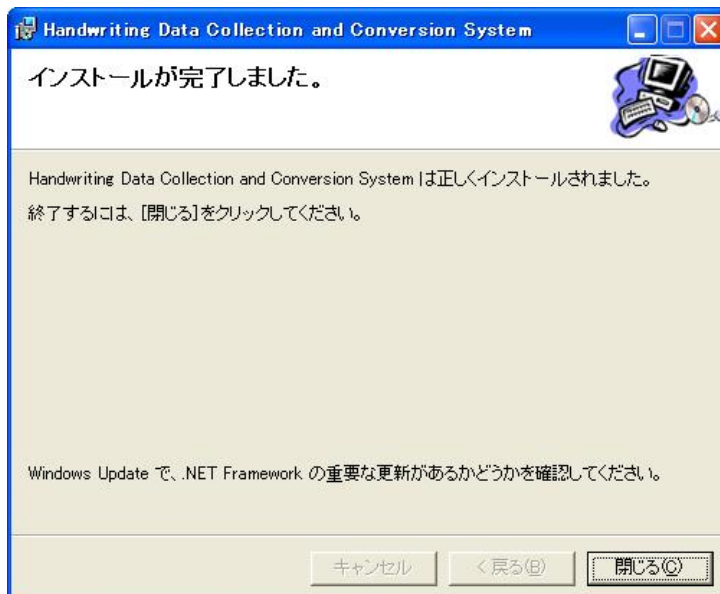
Confirm the displayed contents and click **NEXT (N) >**.



- Complete Installation

The installation will be completed automatically, and the following message will appear on the screen.

Confirm the displayed contents and click **CLOSE (C)**.



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## Chapter 1      Features and Utilization Flow of HCC

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### Handwriting Data Tabulation Flow

#### Create Standard Format

Create standard format with using Word or Excel, and save it in PDF file format.  
Or scan the data of existing format by scanner and save it in PDF file format.

#### Create Item Attributed Data

Define the item value on the saved PDF file upon the output of item attribute and CSV data.

#### Print Standard Format

Print created standard format. No dedicated printer is required, and printing can be conducted on normal paper with using the normal type of printer.

#### Fill-in Standard Format

Fill-in the information with dedicated pen after setting the printed standard format to digital notepad.

#### Transfer Recorded Data

Transfer the data recorded in the digital notepad to the PC.  
Connect the digital notepad to the PC and transfer the data saved in the built-in memory to the PC.

#### Convert Handwriting Data to CSV File

The recorded data will be analyzed and converted into CSV file.  
Conversion can be conducted with checking the actual input data.

#### Correcting and Utilizing CSV Data

Data revision or correction can be conducted with checking the recorded data at the same time. The data organization and analysis can be conducted by processing the output CSV data.




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## Chapter 2      Main Menu

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### Application Activation

There are 2 activation methods for HCC as shown below.

- Click “Start” > “All Programs” > “HCC” > “HCC” to activate the application.
- Click  icon on the desktop for activating the application.

“Main Menu” window will be displayed after the application is activated.



### Main Menu Description

By clicking each menu button in the main menu, each related window will be displayed.

The contents of each menu are as follows:

#### Page Segmentation for PDF File:

Splits multiple pages of PDF file into one page basis in order to make it available with HCC.

#### Item Attributed File Creation:

Defines item attribute (handwriting recognition, tick mark and circled word determination, etc.) and item value upon CSV data output on PDF.

#### Print Paper:

Print PDF with item attribute defined.

#### Page Segmentation for Handwriting Data:

This setting is NOT required in general operation. This feature enables page segmentation on arbitrary stroke basis in the case when multiple sheets of data is recorded without pressing the page break button on the digital notepad.

### Handwriting Data to CSV Conversion:

Analyzes the recorded data and converts it into CSV file.

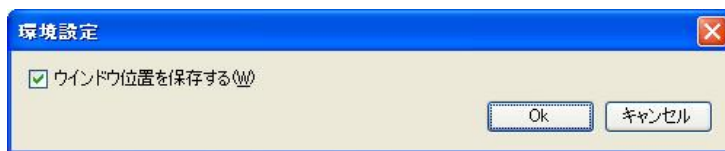
### Converted Data Correction:

CSV file revision or correction can be conducted with checking the recorded data.

### Other Features

- Window fixation

By clicking “Tool (T)” > “Option (O)” in the menu bar, an environmental setting window will be displayed.



By ticking the checkbox ☒ next to “Save the window position (W)”, the main menu window position can be fixed upon activating the application from next time.

By releasing checkmark by ticking ☒ box again, the window position fixation can be released as well.

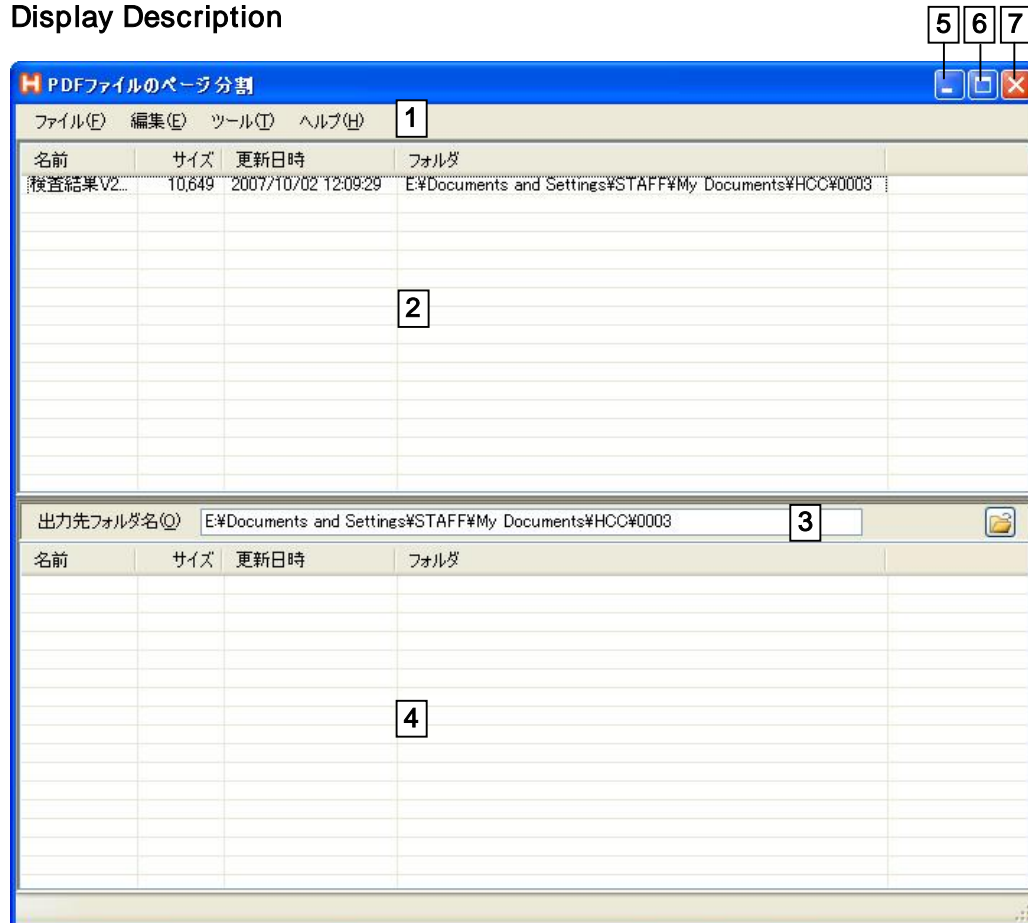
\* It will be fixed to the position where currently displayed.

## Chapter 3 Page Segmentation of PDF File

HCC defines the item attribute for each page.

When standard format has multiple pages, page segmentation will be conducted here.

### Display Description



No.	Designation	Description
1	Menu Bar	Displays overall feature of page segmentation for PDF file
2	Original File Display Panel	Displays PDF file information before page segmentation
3	Output Specification Bar	Specifies the destination to save split files
4	Split File Display Panel	Displays PDF file information after page segmentation
5	Minimized Button	Button to minimize the window size and place it on the Taskbar
6	Maximized Button	Button for maximizing the window
7	Close Button	Button for closing the window

## Reading PDF File

Click “File (F)” > “Open (O)” in the menu bar.

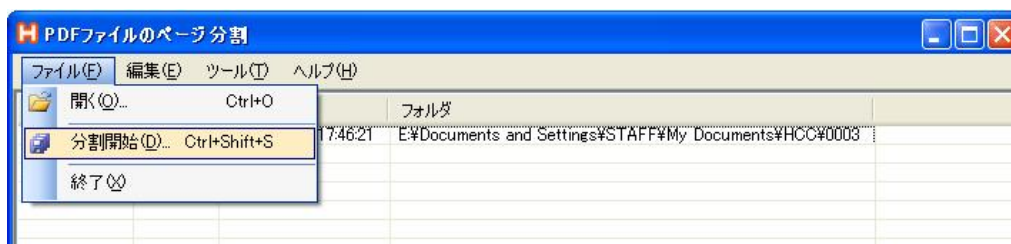


Search the splitting file from “PDF File Selection” dialogue box, and double-click or click **Open (O)** button to open the relevant file.




## Splitting PDF File

Click “File (F)” > “Start Page Split (D)” in the menu bar.



PDF file segmentation will start automatically, and the files will be saved in the folder where PDF file was originally saved.

For changing the destination to save the folder, click  placed on the right side of “Output Specification Bar” and specify the destination.

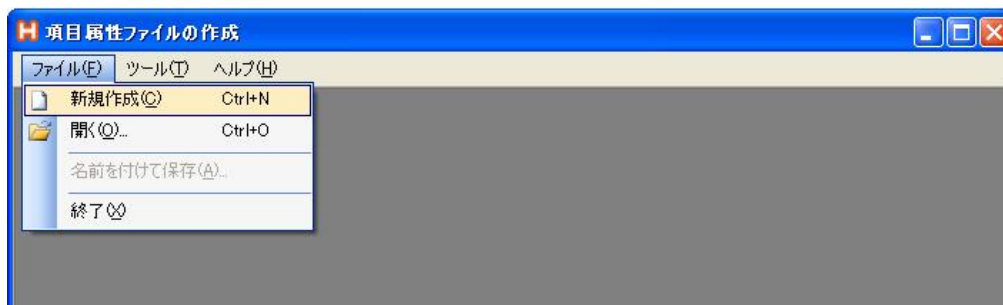
## Chapter 4 Item Attribute File Creation

### Display Description

No.	Designation	Description
1	Menu Bar	Displays overall feature of item attributed file creation
2	Image Window	Window for setting item attribute
3	Summary Window of Item Attributed File	Enables to write in the summary of editing file or note
4	Item Attribute List Window	Displays the list of specified item attribute
5	Minimized Button	Button to minimize the window size and place it on the Taskbar
6	Maximized Button	Button for maximizing the window
7	Close Button	Button for closing the window

## Creating New Item Attributed File

Click “File (F)” > “Create New Document (C)” in the menu bar.



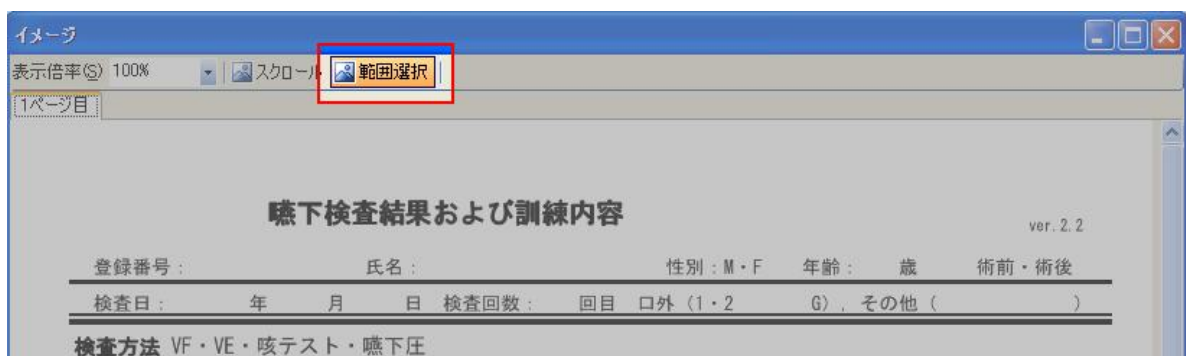
Search the file to specify the item attribute from “Page Segmentation File Selection” in the dialogue box, and double-click or click **Open (O)** button to open the relevant file.



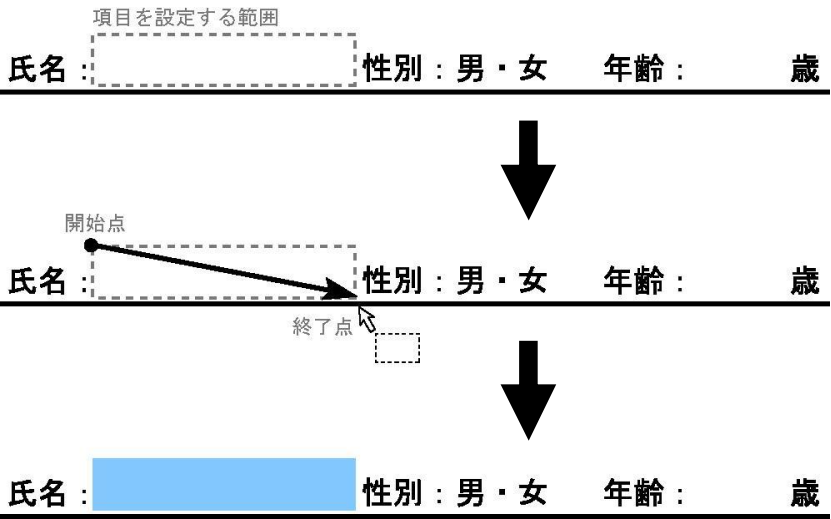
## Setting Specified Range of Item Attribute

The setting of item attribute on the standard format shall be conducted on the “Image Window”.

Click “Selection” on the top of “Image Window”.



Specify the range to set item attribute by dragging with left-clicking the mouse.



The selected range will be colored in light blue.

### Setting the Item Attribute Description

Place the mouse cursor on the range where displayed in color light blue, and right-click the mouse.

The specified selection will turn to pink and pop up menu will be displayed.

1 指定範囲 左端(mm) 32.5 上端(mm) 20.6 右端(mm) 65.1 下端(mm) 29.4

2 項目名 3 接頭語追加

4 項目タイプ

5 項目値

6 Ok 7 キャンセル 8 削除

No.	Designation	Description
1	Specified Range	Displays the specified range in numbers (mm)
2	Item Name	Inputs item designation
3	Prefix Adding Button	Adds prefix registered in "Item Name"
4	Item Type	Selects the recognized item type
5	Item Value	Inputs the output value to CSV
6	OK Button	Reflects the input setting
7	Cancel Button	Cancels the input setting
8	Delete Button	Deletes the specified range


## 1. Confirming the Specified Range

The coordinates of the range where item attribute is currently set will be displayed. Adjustment can be conducted by inputting the numeric value directly into the text box.

## 2. Setting the Item Name

Input the item name in the text box placed next to the prefix button.

### 3-1. Selecting Item Type

By clicking the button  placed next to the item type, item type list will be displayed. Select the item type to be set.



“Handwriting Text Recognition Item” : Recognizes the handwriting characters as text data.


“Item Selection” : Recognizes the tick mark or circled words as selected item.

“Freehand Item” : Saves the handwriting characters as image data.

### 3-2. Setting Item Type – Handwriting Character Recognition Item –

Select “Handwriting Text Recognition Item” in the item type list.

Input column for “character type”, “width” and “length” will be displayed.

By clicking the button  placed next to the character type, character type list will be displayed.



Select the handwriting character type to be input in the selected range.



The descriptions of character types are as below.

Kanji Characters	Recognizes Hiragana and Katakana characters, alphabet characters, JIS level-1 and level-2 kanji set, numeric characters, symbols, Greek characters and punctuation marks.
Hiragana Characters	Recognizes Hiragana characters, symbols and punctuation marks.
Katakana Characters	Recognizes Katakana characters, symbols and punctuation marks.
Roman Alphabet	Recognizes alphabet characters, symbols and punctuation marks.
Double-byte Numeric Characters	Recognizes numeric characters as double-byte numeric characters
One-byte Numeric Characters	Recognizes numeric characters as one-byte numeric characters
Numeric Number	Recognizes numeric numbers


\* Refer to the endnote description for further details.

Next, input the numbers of letters in “Width” and “Length” column.

The grid will be displayed in the selected range based on the input number of letters.

### 3-3. Setting Item Type – Item Selection –

Select “Item Selection” in the item type list.

By clicking the button  placed on the right side of the character type, character type list will be displayed.




Select the select type to be recognized.

The selected types are as below.

Tick Mark Selection	Outputs the set item value upon ticking the check box.
Circled Word Selection	Outputs the set item value upon circling the selected range.

### 3-4. Setting Item Type – Freehand Item –

Select “Freehand Item” in the item type list.

By clicking the button  placed on the right side of the image type, image type list will be displayed.



Select the file type to be saved.

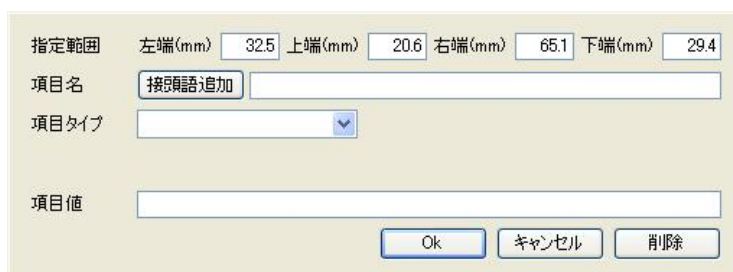
### Setting the Item Value

Input the item value to be output to CSV in the text box placed on the right side of the item value text box. Input all setting and press **OK** button.

The item setting on the selected range will be completed and the color on the range will be changed from light blue to light green.

### Correcting the Specified Range of Item Attribute

Place the mouse cursor on the range where displayed in color light green, and right-click the mouse. The specified selection will turn to pink and pop up menu will be displayed as same as in the case of item attribute setting.



Correct the description and press **OK** button.

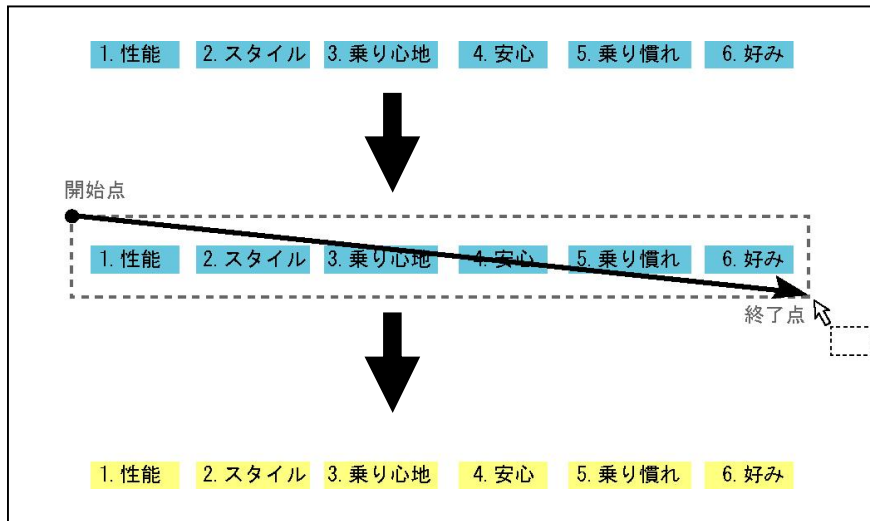
### Deleting the Specified Range of Item Attribute

Place the mouse cursor on the range where displayed in color light green, and right-click the mouse. The specified selection will turn to pink and pop up menu will be displayed as same as in the case of item attribute setting.

The specified range will be deleted by pressing **Delete** button.

## Setting Multiple Item Names

Prefix can be added on the multiple item names in the specified range. They can be grouped by setting the range with left-clicking the mouse with pressing “Ctrl Key”, or by dragging with right-clicking the mouse with pressing “Ctrl Key” with including the desirable specified range.



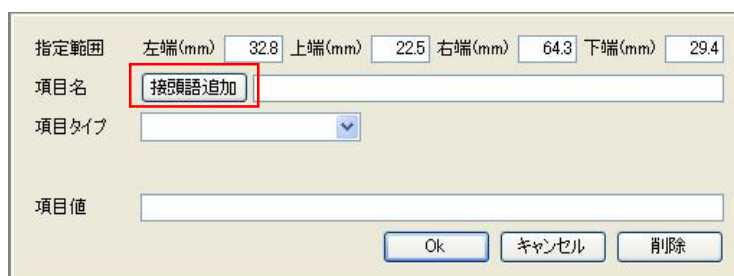
Place the mouse cursor on the range where displayed in color light yellow, and right-click the mouse. The prefix pop up menu will be displayed.



Input the prefix to be added on the text box in “Item Name” column.

Click **Add Prefix** button, and then click **OK** button.

The input prefix will be saved in the memory, and the recorded prefix can be added by clicking **Add Prefix** button in the item setting popup menu screen.



## Item Attribute File Summary

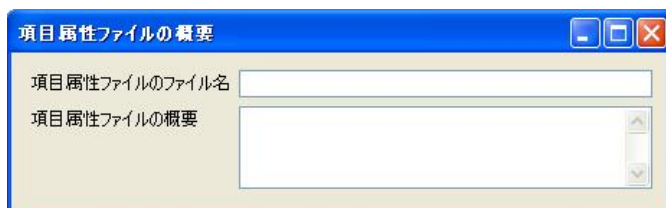
This item enables to take notes on the name and summary of item attribute file currently being edited.

The description input here will NOT be output to CSV file.

## Displaying the Item Attribute File Summary

Click “Display (V)” > “Item Attribute File Summary (D)” in the menu bar.

The summary window of the item attribute file will be displayed.



Please use it as memo by inputting the file name and summary.

## Item Attribute File List

List of display or editing of specified item attribute can be conducted.

## Displaying the Item Attribute List

Click “Display (V)” > “Item Attribute List (L)” in the menu bar.

The window of the item attribute list will be displayed.



No.	Designation	Description
1	Page Tab	Displays the page number of the currently displayed page
2	Item Setting Title	Title name of the item to be set
3	Item Setting List Field	Area for displaying the item description being set

### Editing Item Attribute – Correction –

By right-clicking the attribute item line to be edited in the item setting list field, the whole selected line will be highlighted.

Place the mouse cursor on the highlighted line and right-click the mouse. The color on the selected range will turn to pink and pop up menu will be displayed as same as in the case of item attribute setting.

Correct the description and press  button.

### Editing Item Attribute – Copy/Paste/Delete –

By right-clicking the arbitrary line of attribute item in the item setting list field, the whole line will be highlighted. Move the mouse cursor on the highlighted line.

Copying Attribute Item: “Ctrl + C”

Copies the selected item attribute in the memory.

Cutting Attribute Item: “Ctrl + X”

Cuts the selected item attribute and copies it in the memory.

Deleting Attribute Item: “Ctrl + D”

Deletes the selected item attribute.

Pasting Attribute Item: “Ctrl + V”

Pastes the item attribute copies in the memory.

### Rearrangement of Item Attribute

By right-clicking the mouse after moving the mouse cursor on the “Item Name” and “Specified Range” of the item setting title, item attribute rearrangement can be conducted.

Rearrangement of “Item Name” can be conducted by selecting ascending or descending order.

Rearrangement of “Specified Range” can be conducted by horizontal format.

## Chapter 5 Paper Printing

The standard format created at “Item Attribute File Creation” can be printed.

### Display Description

用紙の印刷 - [イメージ]

ファイル(F) ツール(T) ヘルプ(H) 1

表示倍率(S) 100% 2

1ページ目 2ページ目 3ページ目 4ページ目 3

4

自家用車に関するアンケート

お名前	年齢	性別	職業	お住まいの県
	歳	男・女		

Q1-1.今乗っている車のボディタイプは？  
(複数保有の方は、日常主に使用している車についてお答えください。)

☐軽自動車 ☐コンパクト ☐セダン ☐S ワゴン ☐ミニバン ☐SUV ☐スポーツ ☐未保有

Q1-2.セダンを選んだ人にお聞きします。購入の理由は？

☐性能 ☐スタイル ☐乗り心地 ☐安心 ☐乗り慣れ ☐高級車 ☐好み

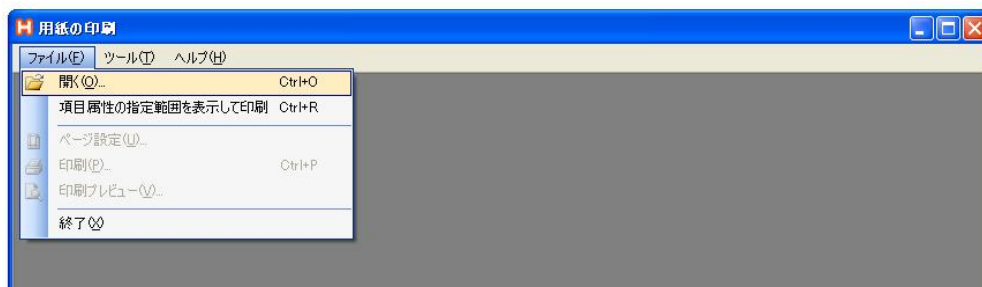
Q1-3.セダン以外を選んだ人にお聞きします。セダンを選ばなかった理由は？

☐使い勝手 ☐ライフスタイル ☐性能 ☐経済性 ☐デザイン ☐イメージ ☐好み

No.	Designation	Description
1	Menu Bar	General page division function of PDF file
2	Magnification Dialogue	Image window magnification can be selected
3	Page Tab	Displays the page number of the currently displayed page
4	Image Window	Area for displaying the standard format with item being set

## Loading Item Setting File

Click “File (F)” > “Open (O)” in the menu bar.



Search the printing file from “Item Attribute File Selection” in dialogue box, and double-click or click **Open (O)** button to open the relevant file.



## Print Setting

Click “File (F)” > “Page Setting (U)” in the menu bar.



Conduct paper setting and print setting according to the currently used printer.

## Print after Displaying the Specified Range of Item Attribute

Click “File (F)” > “Display Item Attribute Range and Print Ctrl+R” in the menu bar.

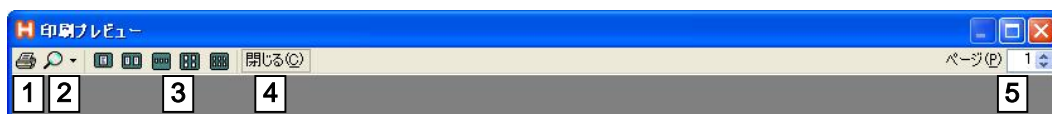
By selecting this setting, it will be printed with displaying both background color of item setting range and framework of character recognition item.



## Displaying Print Preview

Click “File (F)” > “Print Preview (V)” in the menu bar.

The preview window will be displayed.



1. Print    2. Enlarged View    3. Multiple Page Preview  
4. Close Preview    5. Move Page

## Printing Standard Format

Click “File (F)” > “Print (P)” in the menu bar.

The printing window will be displayed. Conduct setting according to the currently used printer.

## Inputting the Data with Digital Notepad

Set the printed paper to the compatible digital notepad and input the information with using the dedicated pen.

Please refer to the product instruction for the details on the digital notepad operation.



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## Chapter 6      Handwriting Data Transfer to PC

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### Transferring the Digital Notepad Data to the PC

When connecting the digital notepad to the PC, the built-in memory in the digital notepad will be detected as a removal disc.

Open the removal disc and drag and drop the saved data into the arbitrary folder.



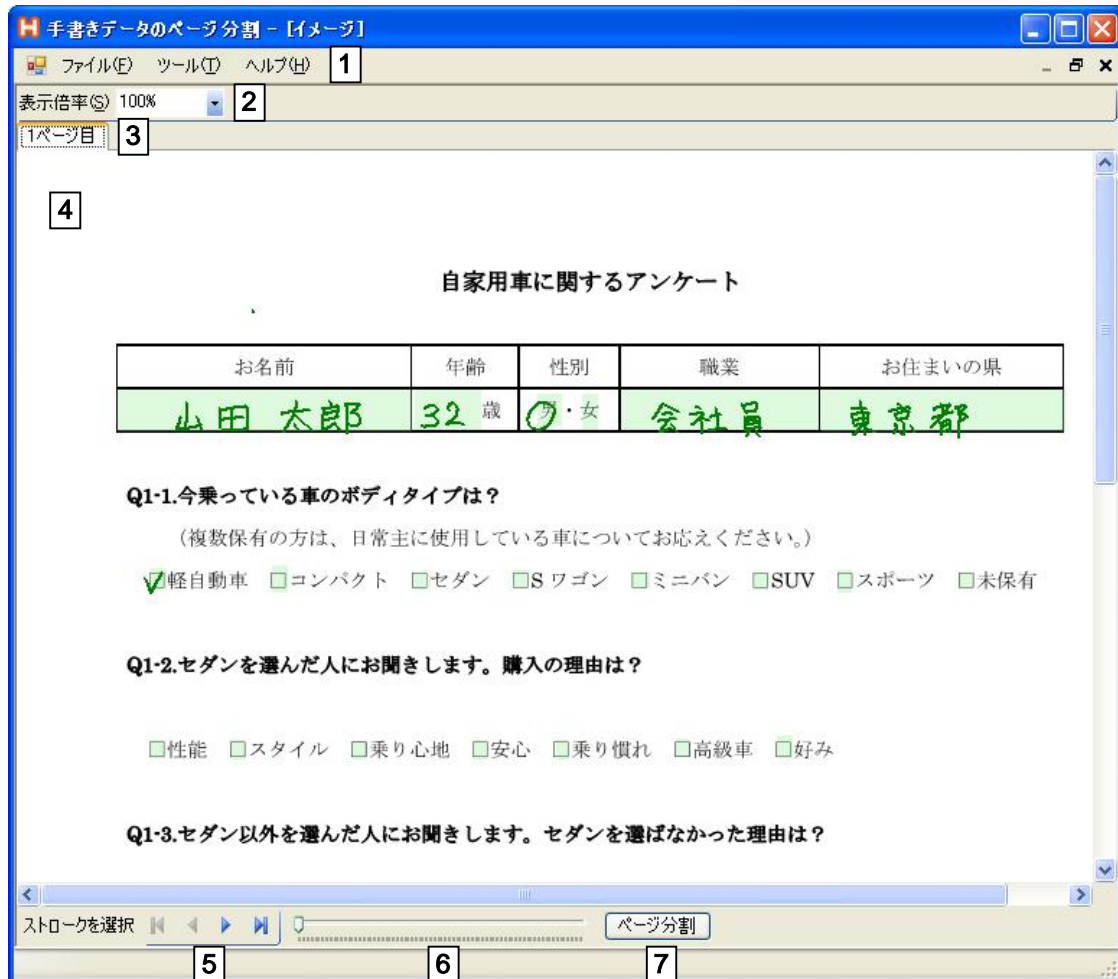
\* By clicking the file with pressing “Ctrl” button, all files can be selected at the same time.

\* By clicking 2 files with pressing “shift” button, all files within the 2 files can be selected at the same time. Also, the same operation can be conducted by using cursor key with pressing “shift” button.

## Chapter 7 Page Segmentation of Handwriting Data

This setting is NOT required in general operation. This feature enables page segmentation on arbitrary stroke basis in the case when multiple sheets of data is recorded without pressing the page break button on the digital notepad.

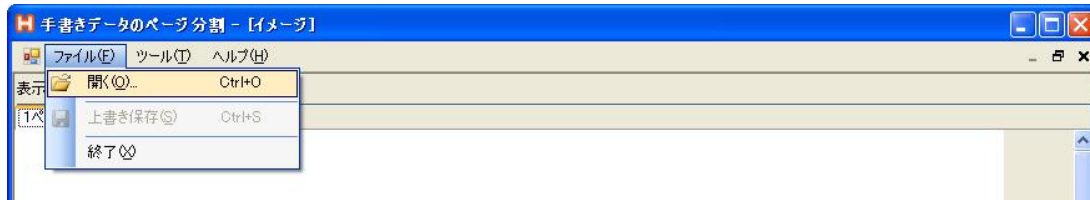
### Display Description



No.	Designation	Description
1	Menu Bar	Displays overall feature of item attribute file creation
2	Magnification Dialogue	Image window magnification can be selected
3	Page Tab	Displays the page number of the currently displayed page
4	Image Window	Area for displaying the standard format with item being set
5	Stroke Moving Button	Specifies the written stroke order
6	Stroke Moving Bar	Specifies the written stroke order
7	Page Segmentation Button	Executes page segmentation

## Opening the Split File

Click “File (F)” > “Open (O)” in the menu bar.



Search the file to be split from “Item Attribute File Selection” in the dialogue box, and double-click or click  button to open the relevant file.

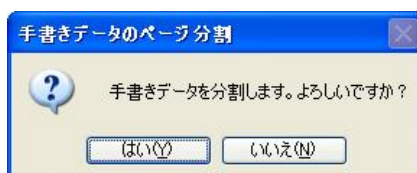


## Executing Page Segmentation

Move “Stroke Moving Button” or “Stroke Moving Bar” and set the point for splitting the strokes.

Separate pages between the strokes displayed in thin black color and the ones displayed in thick dark green color.

By clicking  button, the confirmation window will be displayed.



By clicking  button, page segmentation will be conducted.

The files with number “\_01” or “\_02” attached at the end of the original file name will be created.

## Chapter 8 CSV Conversion of Handwriting Data

### Display Description



No.	Designation	Description
1	Page Tab	Displays the page number of the currently displayed page
2	Image Window	Area for displaying the standard format with item being set
3	Item Attribute File Summary Window	A window for filling in the name and summary of the specified item attribute file
4	Item Attribute List Window	Displays the specified item attribute list

## Retrieving Handwriting Data into the PC

Click “File (F)” > “Open (O)” in the menu bar.



Search the standard format where item attribute is set from “Item Attribute File Selection” in the dialogue box, and double-click or click **Open (O)** button to open the relevant file.



Search the handwriting data to be converted from “Handwriting Data File Selection” in the dialogue box, and double-click or click **Open (O)** button to open the relevant file.



- \* By clicking file with pressing “Ctrl” button, all files can be selected at the same time.
- \* By clicking 2 files with pressing “Shift” button, all files placed between the 2 files can be selected at the same time. The same operation can also be performed by using the cursor key with pressing the “Shift” button.
- \* Designates the folder specified in “Chapter 6 Handwriting Data Transfer to PC”.

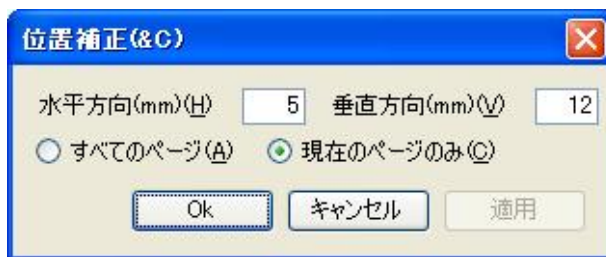
## Position Compensation of Handwriting Data

When the position of the standard format is misaligned with the handwriting data retrieved in the PC, adjust the handwriting data position by conducting position compensation.

Click “Conversion (C)” > “Compensation (C)” in the menu bar.



“Compensation” window will be displayed.



Input the migration length for both horizontal and vertical direction.

\* The default value is set in accordance with the A4 paper size.

\* Input “0” for both horizontal and vertical direction when using A5 paper size version.

Tick “All Pages” when correcting all position of retrieved data.

Tick “Current Page Only” when correcting the position of data currently displayed.

By clicking Apply button, the position after moving to the image window will be displayed.

Check the moved position and click OK button to apply the position compensation.



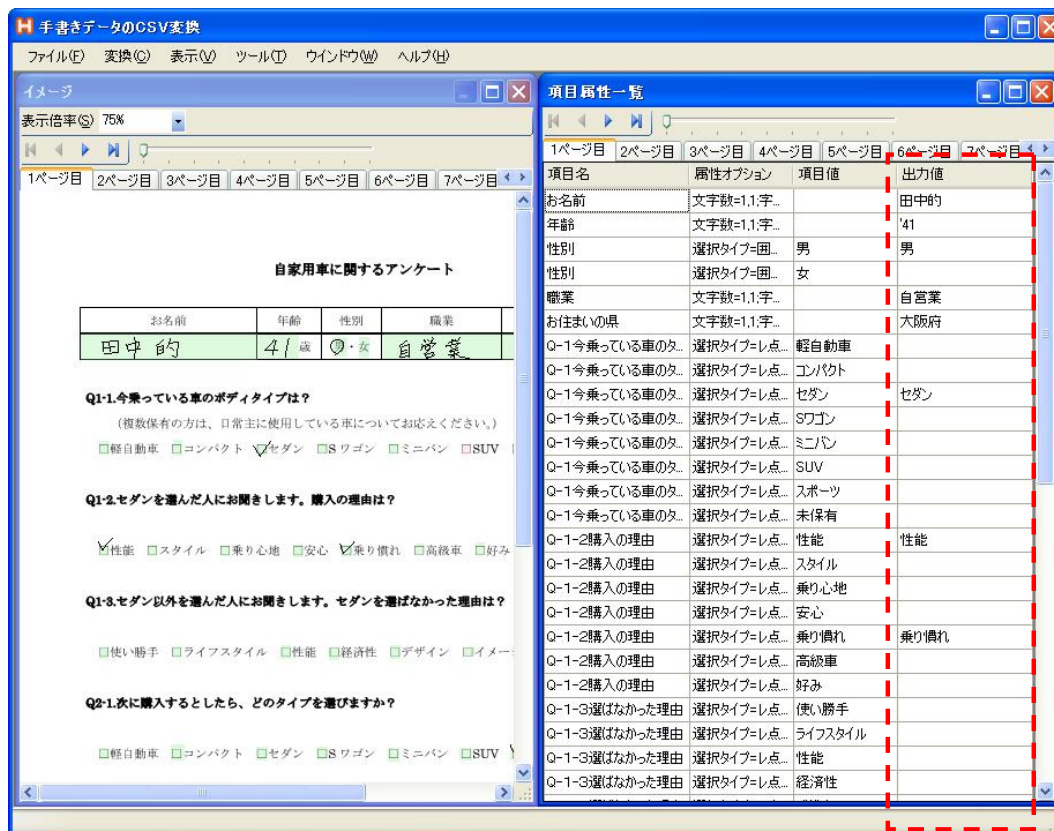
## Converting Handwriting Data into CSV Format

After position compensation, convert the handwriting data into CSV format.

Click “Compensator (C)” > “Batch Conversion (A)” or “Start Conversion (S)” in the menu bar.



CSV conversion will start automatically and the output values analyzed in the item attribute list window will be added. (Refer to the items in the dotted line below )



## Correcting CSV Data

Data correction can be conducted within the item attribute list window.

Place the cursor on the modifying area and left-click the mouse.

The selected area will be highlighted, and input becomes available. Then input the data directly into the PC.

項目名	属性オプション	項目値	出力値
お名前	文字数=1,1,字...		田中の
年齢	文字数=1,1,字...		41
性別	選択タイプ=固...	男	男
性別	選択タイプ=固...	女	
職業	文字数=1,1,字...		自営業
住まいの県	文字数=1,1,字...		大阪府
Q-1今乗っている車のタ...	選択タイプ=レ...	軽自動車	
Q-1今乗っている車のタ...	選択タイプ=レ...	コンパクト	
Q-1今乗っている車のタ...	選択タイプ=レ...	セダン	セダン
Q-1今乗っている車のタ...	選択タイプ=レ...	SUV	
Q-1今乗っている車のタ...	選択タイプ=レ...	スポーツ	
Q-1今乗っている車のタ...	選択タイプ=レ...	未保有	
Q-1-2購入の理由	選択タイプ=レ...	性能	性能
Q-1-2購入の理由	選択タイプ=レ...	スタイル	
Q-1-2購入の理由	選択タイプ=レ...	乗り心地	
Q-1-2購入の理由	選択タイプ=レ...	安心	
Q-1-2購入の理由	選択タイプ=レ...	乗り慣れ	乗り慣れ
Q-1-2購入の理由	選択タイプ=レ...	高級車	
Q-1-2購入の理由	選択タイプ=レ...	好み	
Q-1-3選ばなかった理由	選択タイプ=レ...	使い勝手	
Q-1-3選ばなかった理由	選択タイプ=レ...	ライフスタイル	
Q-1-3選ばなかった理由	選択タイプ=レ...	性能	
Q-1-3選ばなかった理由	選択タイプ=レ...	経済性	

## Saving the Converted CSV

Click “File (F)” > “Name and Save (A)” in the menu bar.

Click  when confirmation message is displayed.



The dialogue box of “Conversion Data File Designation” will be displayed.

Select place for saving the file and input file name. Then press Enter key or click

button to save the file.



The saved CSV file can be confirmed on the Excel format as shown below.

Microsoft Excel - M4_アンケート属性																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	お名前	年齢	性別-男	性別-女	職業	お住まいの	Q-1-1	今Q-1-1	今Q-1-1	今Q-1-1	今Q-1-1	今Q-1-1	今Q-1-1	今Q-1-1	今Q-1-2	今Q-1-2
2	田中	41	1		自営業	大阪府				2					3	
3	高山	20	1		歌手	東京都				2						
4	富田	38	1		サラリーマン	埼玉県										
5	滝澤	38		1	AT&CE	新潟県						5				
6	泊田	38		1	営業	千葉県										
7	山田	32		1	会社員	東京都	1									
8	東山	20		1	会社員	東京都			2							
9	河原	32		1	無職	東京							5			
10	洪	43		1	会社員	東京都	1									
11	高津	27		1	運送業	熊本県					4					
12	吉村	58		1	教師	三重県	1									
13	富山	32		1	会社役員	東京都							5			
14																
15																
16																
17																



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## Chapter 9      Conversion Data Correction

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CSV data converted by HCC can be edited or corrected with referring to the recorded handwriting data.

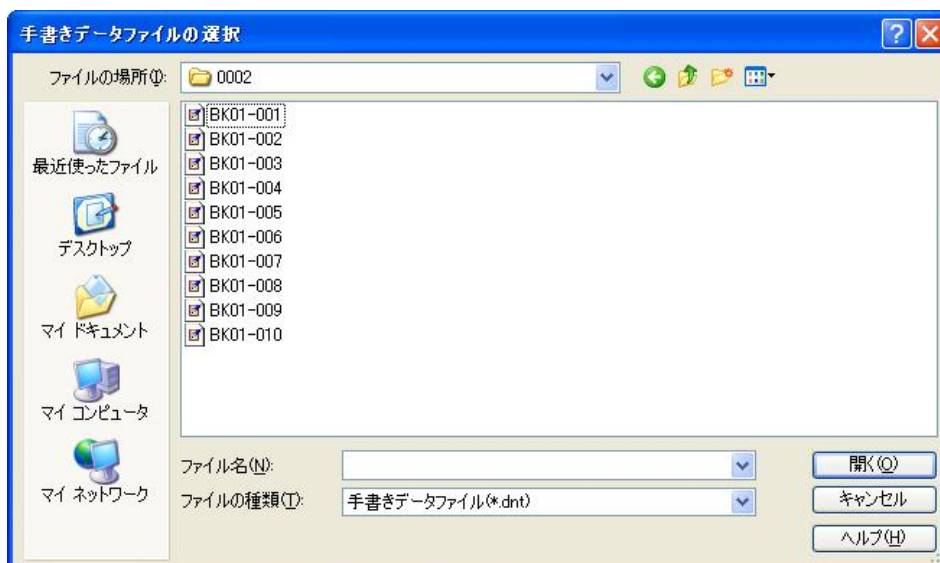
### Opening the File

Click “File (F)” > “Open (O)” in the menu bar.

Search the standard format where item attribute is set from “Item Attribute File Selection” in the dialogue box, and double-click or click **Open (O)** button to open the relevant file.



Search the handwriting data to be converted from “Handwriting Data File Selection” in the dialogue box, and double-click or click **Open (O)** button to open the relevant file.



Search the CSV file to be modified from “Conversion Data File Designation” in the dialogue box, and double-click or click Open (O) button to open the relevant file.

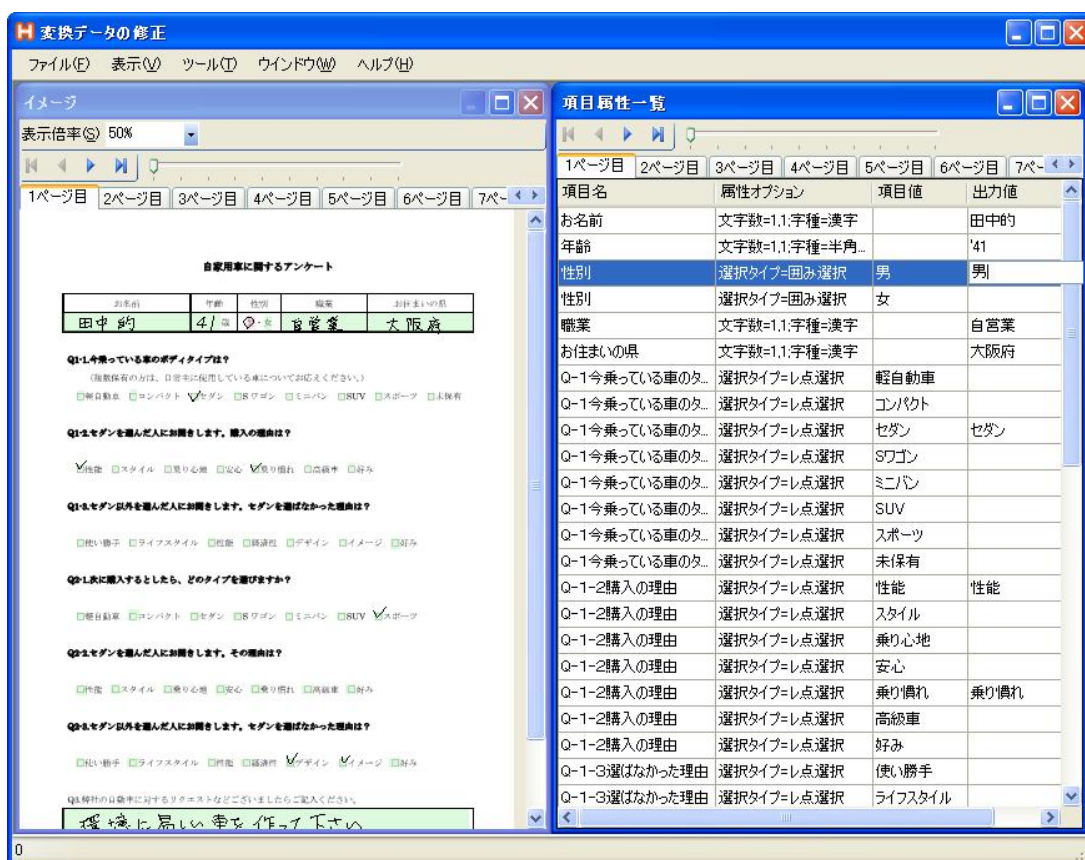


## Correcting CSV Data

Place the cursor on the modifying area and left-click the mouse.

The selected area will be highlighted, and input becomes available.

Then input the data directly into the PC.



## Saving the File

Click “File (F)” > “Name and Save (A)” in the menu bar.

Click  when confirmation message is displayed.



The dialogue box of “Conversion Data File Designation” will be displayed.

Select place for saving the file and input file name. Then press Enter key or click

button to save the file.



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## Endnote

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### Character Type Combination Compatible with HCC Character Recognition System

#### 1 Character Type Combination

The table below describes what kind of characters is actually included in each character type that can be recognized with HCC system.

Character Type	Character Type supported by HCC
Kanji Characters	Hiragana and Katakana characters, alphabet characters, JIS level-1 and level-2 kanji set, numeric characters, symbols, Greek characters and punctuation marks
Hiragana Characters	Hiragana characters, symbols and punctuation marks
Katakana Characters	Katakana characters, symbols and punctuation marks
Roman Alphabet	Alphabet characters, symbols and punctuation marks
Double-byte Numeric Characters	Numeric characters
One-byte Numeric Characters	Numeric characters
Numeric Number	Numeric characters

#### 2 Recognized Character List

##### 2.1 Symbols

(83 characters)

? ! ^ \_ \ ` ~ > < " ' ` / ~ || | ... ( ) [ ] { }  
 《 》 「 」 『 』 + - ± × ÷ = < >  
 ° ¥ \$ % # & \* @ §  
 〒

##### 2.2 Punctuation Marks

(11 characters)

、 。 , . \* : ; <sup>13449</sup>

### 2.3 Numeric Characters

(30 characters)

0123456789

### 2.4 Alphabet

(52 characters)

ABCDEFGHIJKLMN

OPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

xyz

### 2.5 Hiragana Characters

(46 characters)

あいうえおかがきぎくぐ  
けげこごさざしじずせぜそぞただ  
ちぢっつづてでとどなにぬねのはば  
ぱひびぴふぶぷへべぽぼまみむ  
めもやゆよよりるれろわわゐ  
ゑをん

## 2.6 Katakana Characters

(86 characters)

ァアイウエェォオカガキギクグ  
ケゲコゴサザシジスズセゼソゾタダ  
チヂッツツテデトナニヌネノハバ  
パヒピピフブプヘベペホボボマミム  
メモャヤユュヨヨラリルレロゥワヰ  
ヱヲンヴヵヶ

## 2.7 Greek Characters

(38 characters)

ΔΣΦΩαβγδεζηθικλμ  
Νξοπρστυφχψω

## 2.8 JIS level-1 Kanji Set

(2981 characters)

-1-

亜啞娃阿哀愛挨始 逢葵茜穉惡握渥旭  
葦芦鰲梓压斡扱宛 姐虻飴絢綾鮎或粟  
裕安庵按暗案闇鞍 杏以伊位依偉囿夷  
委威尉惟意慰易椅 為畏異移維緯胃萎  
衣謂違遺医井亥域 育郁磯一壺溢逸稻  
茨芋鰯允印咽員因 姻引飲淫胤蔭院陰  
隱韻吋右宇烏羽迂 雨卯鵲窺丑碓臼渦  
噓唄鬱蔚鰻姥厩浦 瓜閏噂云運雲荏餌

-2-

馥營嬰影映曳榮永 泳洩瑛盈穎穎英衛  
詠銳液疫益馭悅謁 越閱榎厭円園堰奄  
宴延怨掩援沿演炎 焰煙燕猿緣艷苑園  
遠鉛鴛塩於汚甥凹 央輿往忝押旺橫欧  
毆王翁襖鶯鷗黃岡 冲荻億屋憶臆桶牡  
乙俺卸恩溫穩音下 化佻何伽伽佳加可  
嘉夏嫁家寡科暇果 架歌河火珂禍禾稼

-3-

箇花苛茄荷華菓蝦 課嘩貨迦過霞蚊俄  
峨我牙画臥芽蛾賀 雅餓駕介会解回塊

壞迴快怪悔恢懷戒 拐改魁晦械海灰界  
皆繪芥蟹開階貝凱 効外咳害崖慨概涯  
碍蓋街該鎧骸涇馨 蛙垣柿蛎鈎劃嚇各  
廓擴攪格核殼獲確 穫覺角赫較郭閣隔  
革學岳樂額顎掛笠 櫟樞梔鯢漚割喝恰  
括活渴滑葛褐轄且 鯉叶桵樺鞞株兜竈

-4-

蒲釜鎌嚙鴨栢茅萱 粥刈苻瓦乾侃冠寒  
刊勘勸卷喚堪姦完 官寬干幹患感慣憾  
換敢柑桓棺款歡汗 漢澗漚環甘監看竿  
管簡緩缶翰肝艦莞 觀諫貫還鑑間閑閑  
陷韓館館丸含岸巖 玩癌眼岩翫贗雁頑  
顏願企伎危喜器基 奇嬉寄岐希幾忌揮  
机旗既期棋棄機歸 毅氣汽畿祈季稀紀  
徽規記貴起軌輝飢 騎鬼龜偽儀妓宜戲

-5-

技擬欺犧疑祗義蟻 誼議掬菊鞠吉吃喫  
桔橘詰砧杵黍却客 脚虐逆丘久仇休及  
吸宮弓急救朽求汲 泣灸球究窮笈級糾  
給旧牛去居巨拒拋 拳渠虛許距鋸漁禦  
魚亨享京供俠僑兇 競共凶協匡卿叫喬  
境峽強彊怯恐恭挾 教橋況狂狹矯胸脅  
興蕎鄉鏡響饗驚仰 凝堯曉業局曲極玉  
桐籽僅勤均巾錦斤 欣欽琴禁禽筋緊芹

-6-

菌衿襟謹近金吟銀 九俱句区狗玖矩苦  
軀駟駟駒具愚虞喰 空偶寓遇隅串櫛釧  
屑屈掘窟沓靴轡窪 熊隈纛栗縹桑鋤勲  
君薰訓群軍郡卦袞 祁係傾刑兄啓圭珪  
型契形徑惠慶慧憩 揭携敬景桂溪畦稽  
系經繼繫罍荃荊蚩 計詣警輕頸鷄芸迎  
鯨劇戟擊激隙桁傑 欠決潔穴結血訣月  
件俟倦健兼券劍喧 圈堅嫌建憲懸拳捲

-7-

檢權牽犬猷研硯絹 梟肩見謙賢軒遣鍵  
陝顯驗齟元原嚴幻 弦減源玄現絃絃言  
諺限乎個古呼固姑 孤己庫弧戶故枯湖

狐糊袴股胡菰虎誇 跨鉤雇顧鼓五互伍  
午吳吾娛後御悟梧 檣瑚暮語誤護酬乞  
鯉交佼侯候倖光公 功效勾厚口向后喉  
坑垢好孔孝宏工巧 巷幸庠庚康弘恒慌  
抗拘控攻昂晃更杭 校梗構江洪浩港溝

-8-

甲皇硬稿糠紅紘絞 網耕考肯肱腔膏航  
荒行衡講貢購郊酵 鉉砒鋼閣降項香高  
鴻剛劫号合壕拷濠 豪轟鞠克刻告国穀  
酷鵠黑獄澆腰甌忽 惚骨狎込此頃今困  
坤壘婚恨懇昏昆根 梱混痕紺艮魂些佐  
叉唆嵯左差查沙磋 砂詐鎖衮坐座挫債  
催再最哉塞妻宰彩 才採栽歲濟災采犀  
碎砦祭齋細菜裁載 際劑在材罪財冴坂

-9-

阪堺榭肴咲崎埼碕 鷺作削咋搾昨朔柵  
窄策索錯梭鮭筴匙 冊刷察拶撮擦札殺  
薩雜臯鯖捌鑄鮫皿 晒三傘參山慘撒散  
棧燦珊產算纂蚕讚 蕢酸餐斬暫殘仕仔  
伺使刺司史嗣四士 始姉姿子屍市師志  
思指支攷斯施旨枝 止死氏獅祉私糸紙  
紫肢脂至視詞詩試 誌諮資賜雌飼齒事  
似侍兒字寺慈持時 次滋治爾璽痔磁示

-10-

而耳自蒔辞汐鹿式 識鳴竺軸穴零七叱  
執失嫉室悉湿漆疾 質寔郤篠僦柴芝屨  
蕊縞舍写射捨赦斜 煮社紗者謝車遮蛇  
邪借勺尺杓灼爵酌 稭錫若寂弱惹主取  
守手朱殊狩珠種腫 趣酒首儒受呪寿授  
樹綬需囚収周宗就 州修愁拾洲秀秋終  
繡習臭舟菟衆襲讐 蹴輯週茜酬集醜什  
住充十從戎柔汁洩 獸縱重銃叔夙宿淑

-11-

祝縮肅塾熟出術述 俊峻春瞬竣舜駿准  
循旬楯殉淳準潤盾 純巡遵醇順処初所  
暑曙渚庶緒署書薯 諸諸助叙女序徐恕  
鋤除傷償勝匠升召 哨商唱嘗獎妾娼宵



将小少尚庄床廠彰 承抄招掌捷昇昌昭  
晶松梢樟樵沼消涉 湘燒焦照症省硝礁  
祥称章笑粧紹肖莒 蒋蕉衝裳訟証詔詳  
象賞醬鉦鍾鐘障鞘 上丈丞乘冗剩城場

-12-

壤孃常情擾条杖淨 狀置穰蒸讓釀錠囑  
埴飾拭植殖燭織職 色觸食蝕辱尻伸信  
侵唇娠寢審心慎振 新晋森榛浸深申疹  
真神秦紳臣苾薪親 診身辛進針震人仁  
刃塵壬尋甚尽腎訊 迅陣勒筭諏須酢凶  
厨逗吹垂帥推水炊 睡粹翠衰遂醉錐錘  
隨瑞髓崇嵩数枢趨 難据杉梠菅顏雀裾  
澄摺寸世瀨畝是淒 制勢姓征性成政整

-13-

星晴棲栖正清牲生 盛精聖声製西誠誓  
請逝醒青靜齊稅脆 隻席惜戚斥昔析石  
積籍績脊責赤跡蹟 碩切拙接撰折設窃  
節說雪絕舌蟬仙先 千占宣專尖川戟扇  
撰栓梅泉浅洗染潜 煎煽旋穿箭線纖羨  
腺舛船薦詮賤踐選 遷錢銑閃鮮前善漸  
然全禪繕膳糲噌塑 岨措曾曾楚狙疏疎  
礎祖租租素組蘇訴 阻遯鼠僧創双叢倉

-14-

喪壯奏爽宋層匝惣 想搜掃挿搔操早曹  
巢槍槽漕燥争瘦相 窓糟総綜聰草莊葬  
蒼藻装走送遭鎗霜 騷像增憎藏蔵贈造  
促側則即息捉束測 足速俗属賊族続卒  
袖其揃存孫尊損村 遜他多太汰訖唾墮  
妥情打柁舵橈陀駄 驛体堆対耐岱帯待  
怠態戴替泰滯胎腿 苔袋貸退逮隊黛鯛  
代台大第醍題鷹淹 瀧卓啄宅托扱拓沢

-15-

濯琢託鐸濁諾茸胤 蛸只叩但達辰奪脱  
異豎迥棚谷狸鱈樽 誰丹单嘆坦担探旦  
歎淡湛炭短端箠綻 耽胆蛋誕鍛团壇彈  
断暖檀段男談值知 地弛恥智池痴稚置  
致蚰遲馳築畜竹筑 蓄逐秩窒茶嫡着中

仲宙忠抽昼柱注虫 衷註酎鑄駐樗瀦猪  
苧著貯丁兆涸喋寵 帖帳庁弔張彫徵懲  
挑暢朝潮牒町眺聽 脹腸蝶調譟超跳鈔

-16-

長頂烏勅抄直朕沈 珍賃鎮陳津墜椎槌  
追鎚痛通塚拇搥槻 佃漬柘辻薦綴鏢椿  
漬坪壺孀紬爪吊釣 鶴亭低停偵剃貞呈  
堤定帝底庭廷弟悌 抵挺提梯汀碇禎程  
締艇訂諦蹄遞邸鄭 釘鼎泥摘擢敵滴的  
笛適鐫溺哲徹撤輟 迭鉄典填天展店添  
纏甜貼軫顛点伝殿 澱田電兎吐堵塗妬  
屠徒斗杜渡登菟賭 途都鍍砥砺努度土

-17-

奴怒倒党冬凍刀唐 塔塘套宕島嶋悼投  
搭東桃拷棟盜淘湯 涛灯燈当痘禱等答  
筒糖統到董蕩藤討 膳豆踏逃透鐙陶頭  
騰鬪勳動同堂導懂 撞洞瞳童胴苟道銅  
峠鴛匿得德洩特督 禿篤毒独読栃椽凸  
突椽届鳶苫寅酉潑 噸屯惇敦沌豚遁頓  
吞曇鈍奈那内乍凧 薙謎灘捺鍋檣馴縄  
噉南楠軟難汝二尼 弑迓勾脈肉虹廿日

-18-

乳入如尿葦任妊忍 認濡襦祢寧葱猫熱  
年念捻撚燃粘乃迺 之埜囊惱濃納能腦  
膿農硯蚤巴把播霸 杷波派琶破婆罵芭  
馬俳廢排排敗杯盃 牌背肺輩配倍培媒  
梅煤煤猥買壳賠陪 這蠅秤矧荻伯剥博  
拍柏泊白箔粕舶薄 迫曝漠爆縛莫駁麦  
函箱碇箸箸簪櫨幡 肌畑畠八鉢洩癢醜  
髮伐罰拔筏閥鳩嘶 塙蛤隼伴判半反叛

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帆搬斑板汜汎版犯 班畔繁般藩販範采  
煩頒飯挽晚番盤磐 蕃蚩匪卑否妃庇彼  
悲扉批披斐比泌疲 皮碑秘緋罷肥被誹  
費避非飛樋簸備尾 微枇毘琵琶眉美鼻佟  
稗匹疋髭彦膝菱肘 弼必畢筆逼桧姬媛  
紐百謬倮彪標氷漂 瓢票表評豹廟描病

秒苗錨鉅蒜蛭鰭品 彬斌浜瀕貧寶頻敏  
瓶不付埠夫婦富富 布府怖扶敷斧普浮

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父符腐膚芙譜負賦 赴阜附侮撫武舞葡  
蕪部封楓風葦落伏 副復幅服福腹複覆  
淵弗弘沸佻物鮒分 吻噴墳憤扮焚奮粉  
糞紛雰文聞丙併兵 摒幣平弊柄並蔽閉  
陞米頁僻壁癖碧別 瞥蔑篋偏变片篇編  
迈返遍便勉婉弁鞭 保舖鋪圃捕步甫補  
輔穗募墓慕戍暮母 簿菩倣俸包呆報奉  
宝峰峯崩庖抱捧放 方朋法泡烹砲縫胞

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芳萌蓬蜂褒訪豐邦 鋒飽鳳鵬乏亡傍剖  
坊妨帽忘忙房暴望 某棒冒紡肪膨謀貌  
貿鉞防吠頰北僕卜 墨撲朴牧睦穆釦勃  
沒殆堀幌奔本翻凡 盆摩磨魔麻埋妹昧  
枚每哩禎幕膜枕鮪 枉鱗櫟亦俟又抹末  
沫迄佻繭磨万慢滿 漫蔓味未魅已箕岬  
密蜜湊蓑稔脈妙耗 民眠務夢無牟矛霧  
鷓棕娟娘冥名命明 盟迷銘鳴姪牝滅免

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棉綿緬面麵摸摸茂 妄孟毛猛盲網耗蒙  
儲木默目空勿餅尤 戾刼貰問悶紋門刃  
也冶夜爺耶野弥矢 厄役約葉訖躍靖柳  
藪鍵愉愈油癒諭輸 唯佑優勇友宥幽悠  
憂揖有柚湧涌猶猷 由祐裕誘遊邑郵雄  
融夕予余与譽輿預 傭幼妖容庸揚搖擁  
曜楊樣洋溶熔用窯 羊耀葉蓉要謠踊遙  
陽養慾抑欲沃浴翌 翼淀羅螺裸来萊賴

-23-

雷洛絡落酪乱卵嵐 欄濫藍蘭覽利吏履  
李梨理璃痢裏裡里 離陸律率立律掠略  
劉流溜琉留硫粒隆 竜龍侶慮旅虜了亮  
僚兩凌寮料梁涼獵 療瞭稜糧良諒遼量  
陵領力綠倫厘林淋 燐琳臨輪隣鱗麟瑠  
罍淚累類令伶例冷 勵嶺伶玲礼苓鈴隸  
零靈麗齡曆歷列劣 烈裂廉恋憐漣煉簾

練聯蓮連鍊呂魯櫓 炉賂路露勞婁廊弄

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朗樓榔浪漏牢狼籠 老聾蠟郎六麓祿肋

錄論倭和話歪賄脇 惑梓鷺互亘鰐詫藁

蕨椀灣碗腕

## 2.9 JIS level-2 Kanji Set

(1095 characters)

-1-

丕井乖乘豫舒于亞 亟亢仄仗佛佗佇侈

侑來儘俟俎俚倂倚 倪倅俯倆偕倣倜傲

傳僞僭儼儷兀兒 兌免兢冤冠凜几凰

勿剝剋剪剩剽劍劔 勁勳甸乚卷厯曼叻

吡吝呖呵咎咍咄咄 咄哄咤咥咥咥啖

喀喘單啼喻鳴嗅嗟 嗜嘔嗽噎嘴嘲噪囁

嚴囂囂囂囂囂囂 團圞圞圞圞圞圞

圯圯圯圯圯圯圯 塢堡毀塢塢塢塢

-2-

壘壯壺壽夥天奎奘 奢奧獎奸妍甥婉娶

婢婪媚嬌孌子孕孵 學寔寔寔寔寔寔

專對屁屏屾岫岫岫 岫岫岫岫岫岫岫

峻嶢嶢嶢嶢嶢嶢 帷幟幫廂廂廂廂

駑彈彌彎彎彗彗徬 徬徬徬徬徬徬

恪恆恍恫恃恤恬恙 悍惧悄俊恪惡悸惠

悴悽愕惺愍愍愍 愍愍愍愍愍愍

憊憑憊憊憊憊憊 憊憊憊憊憊憊

-3-

戲扁扣扼杼抓拔拗 拿拜拂拇拋拉拈拈

拈拈拈拈拈拈拈 揆揣揉插擲搖擲擲

搗搗摑攪撓撥撼擣 擣擣擣擣擣擣

攣攣攣攣攣攣攣 斟旛早昵昃晏晝晨

晟晰暉暉暉暉暉 霸朶朶朶朶朶

枌枌枌枌枌枌枌 枌枌枌枌枌枌枌

條榔挺檣檣檣檣 檣檣檣檣檣檣

桤棹棠桤桤桤桤 楔楮楮楮楮楮

-4-

槐橙槁榷榷榷榷 樂樛樛樛樛樛樛

檄檢槩檻櫃櫟櫻櫟 樂鬱盜歇歿殲毳毫  
毯麾氓氣汞汪沁沐 泄泓沽泗沮汙汙衍  
洸洸洒冽浣浚涎濤 涅淝涵涸淆淌淨渭  
渙渾湫涼游混滓溯 滔滕溥灌漿滲漱滯  
滌澁潭澎澳澤澹濤 濕濱瀉瀘渚瀝瀾炙  
炒炯炬炸烟烙焉焙 煥熙煬熏燠熨熹熾  
燒燎燧耀爛爭爬爲 犢狄貉狡狹狷猜猴

-5-

獠猩猥默獠獐獸獺 珈玻珀琥琚珙瑕瑁  
瑣瑤璋璧瓏甃甃甃 呖畛畸疇疊疵痒痊  
痒痒痒瘍瘤瘰癧癰 癩癩自皓皴孟盡盧  
盪眈眈眩眞眸睨睽 睛睿睽瞋瞋瞋瞋瞋  
矜矮矼砌砒礪碎砒 婆礪碌礪礪礪礪礪  
礪祀祠祗崇祚祕祓 祿禧齋禪禮拒稜秣  
稠稟稟稻穗穢穢穢 窈窩竈竈竈竈竈竈  
笏笏笏筍筵筵筵筵 笏笏笏笏笏笏笏笏

-6-

篁箴篆箴箴箴箴 籠簣簇簣簣簣簣  
籟籟籟籟籟籟籟 糜糯糲紆紆紆紆紆  
絳總綸緇緇緇緇緇 縣縱縋縋縋縋縋縋  
纏縋縋縋縋縋縋 毳毳羞羲翊翊翊翊  
翻耆耆耆耆耆耆 聒聒聒聒聒聒聒聒  
脰脰脰脰脰脰脰 脰脰脰脰脰脰脰  
舅與舐舐舐舐舐舐 艘艘艘艘艘艘艘  
茱茱茱茱茱茱茱 莎茱莊茶菟菟菟菟

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菲范萌莽莢莢莢萬 施修蔡蔗蓼蓼蓼蓼  
薊薊薊薊薊薊薊 蘊藺蘆虺虺虺虺虺  
虺虺蜀蜃蜃蜃蜃蜃 蜃蜃蜃蜃蜃蜃蜃  
蟠蟠衙衙衙衙衙衙 袞袞袞袞袞袞袞  
褶襦觀觀觀觀觀觀 訝訥訥訥訥訥訥  
誠誑誑誑誑誑誑 諛諛諛諛諛諛諛  
讒讒貪貶賤賣賣賣 鼯鼯鼯鼯鼯鼯鼯  
跬跬跬跬跬跬跬 蹯蹯蹯蹯蹯蹯蹯

-8-

軼輻輻輻輻輻輻 輻輻輻輻輻輻輻  
逡逡逡逡逡逡逡 邊邊邊邊邊邊邊

釀釁釉釜鈎鈎鈎鈎 鉗鉤鉈鉈鉈鉈鉈鉈  
 錚錚鋁鋁鋁鋁鋁鋁 鐵鐵鑄鑄鑄鑄鑄鑄  
 閨閨閨閨閨閨閨閨 阮阮阮阮阮阮阮阮  
 雍雍雍雍雍雍雍雍 鞅鞅鞅鞅鞅鞅  
 頽頽頽頽頽頽頽頽 餞餅饅饅饅饅饅饅  
 駛駝駝駝駝駝駝 驕驗髮髮髮髮髮髮

-9-

魏鯢鯢鯢鯢鯢鯢 鯢鯢鯢鯢鯢鯢鯢鯢  
 鯢鯢鯢鯢鯢鯢鯢鯢 鯢鯢鯢鯢鯢鯢鯢鯢  
 鸚鵡鸚鵡鸚鵡鸚鵡 黎徽鼈鼓齊齧楨瑤  
 昇增寬崎德昂朗榮 柳橫瀨神祥福綠緒  
 諸賴逸郎都高黑

## System Parameter Setting Method for HCC

### 1. System Parameter Types

There is variety of categories for system parameters available with HCC as shown below.

Parameter Name	Definition	Default
FirstReadIsFile	Maintains whether or not to place priority on the file for acquiring system information. True: Data acquired in the order of registry → file False: Data acquired in the order of file → registry	True
Language	Specifies the language used for caption. ja: Japanese en: English	ja
PDFFileExt	Specifies PDF file extension.	.pdf
HCCFileExt	Specifies the extension of HCC file.	.hcc
DNTFileExt	Specifies the extension of DNT file.	.dnt
CSVFileExt	Specifies the extension of CSV file.	.csv
PenWidth	Specifies the line width for displaying handwriting data on the window on dot unit basis.	1.5
DividingDistance	Specifies the distance between the strokes used as a criteria of candidate for page segmentation of handwriting data on millimeter basis. It will be displayed as page segmentation candidate in the case when having the farther distance away from the previous strokes in the top left direction of the paper.	50
DNTFileMaxCount	Specifies the upper limit of the DNT file volume that can be read at a time. Up to the number of files specified here can be retrieved.	50

ShowPageButtonCount	Displays page moving button when exceeding over the number of pages specified here.	10
A4MarginTop	Specifies the default value in vertical direction for the corrected value of DNT file created with using Technote A4 version on millimeter basis.	12
A4MarginLeft	Specifies the default value in horizontal direction for the corrected value of DNT file created with using Technote A4 version on millimeter basis.	5
ShowBeforeItemData	Specifies whether or not to redisplay the last value upon setting the item attribute. True: Redisplays the last value False: Does NOT redisplay the last value	True
UnDefinedColorName	Specifies the color name for displaying the undefined item attribute on the image window.	Cyan
UnDefinedColorAlpha	Specifies the transparency level of color for displaying undefined item attribute on the image window from 0 to 255. It becomes completely opaque shade at the level of 255.	75
UnSelectedColorName	Specifies the color name for displaying the unselected item attribute on the image window.	LightGreen
UnSelectedColorAlpha	Specifies the transparency level of color for displaying unselected item attribute on the image window from 0 to 255. It becomes completely opaque shade at the level of 255.	75
SelectedColorName	Specifies the color name for displaying the single selected item attribute on the image window.	LightPink



SelectedColorAlpha	Specifies the transparency level of color for displaying single selected item attribute on the image window from 0 to 255. It becomes completely opaque shade at the level of 255.	75
MultiSelectedColorName	Specifies the color name for displaying the multiple selected item attribute on the image window.	Yellow
MultiSelectedColorAlpha	Specifies the transparency level of color for displaying multiple selected item attribute on the image window from 0 to 255. It becomes completely opaque shade at the level of 255.	75
RecogLineColorName	Specifies the color name for displaying the grid line of character recognition item on the image window.	Black
RecogLineColorAlpha	Specifies the transparency level of color for displaying the grid line of character recognition item on the image window from 0 to 255. It becomes completely opaque shade at the level of 255.	75
UseHCCSummary	Specifies whether or not to use “Item Attribute File Summary”. True: Used False: Not used	True
UsePageSummary	Specifies whether or not to use “Page Summary”. True: Used False: Not used	True
SortTolerance	Specifies the allowable range of misalignment regarded as the same line on millimeter basis upon sorting the item specification range.	5

a) About Language

HCC compiles a word database for all phrases or caption displayed on the screen, and enables to switch words according to the language used.

The word database is installed with the name "Resource.mdb" in the same directory as "HCCInfo.ini". This database has a basic data consists of 3 tables; "T\_CAPTION\_ja", "T\_CAPTION\_en" and "T\_CAPTION". Each table is used for Japanese, English and undefined data. HCC obtains the words by using table that matches with the end of table name and Language.

Therefore, when adding the compatible language (French for example), switch to French language can be performed with HCC by only creating table named "T\_CAPTION\_fn" in "Resource.mdb" and set "Language=fn".

b) About Color Name

Please refer to <http://msdn2.microsoft.com/en-us/library/aa358802.aspx> for details on the writable color names (Yellow or Cyan etc.).

## 2. Registry

The system parameters are written on "HKEY\_LOCAL\_MACHINE¥SOFTWARE¥HCC" in the registry. This registry is not yet created at the point of HCC installation; however, it is created upon the initial activation of HCC. Also, the data stored in the registry will remain as it is without being deleted even after performing HCC uninstallation.

## 3. Configuration File

The folder named SYS is placed in the directory (C:¥Program Files¥KAIREN¥HCC by default) where HCC is installed, and the text file named "HCCInfo.ini" is placed under this folder. Upon HCC activation, it obtains another system parameter from this file after having obtained the system parameter in the registry. Therefore, high priority is given to the description written in the setting file gets preference over the ones written in the registry. However, the priority order can be changed depending on the "FirstReadIsFile" of system parameter.

The setting file is a normal text file written in shift JIS code, which can be opened by memo pad. The system parameter in the form of "Parameter = value" is written in the file. At this point, please note that the parameter is distinguished by character type of capital letter, small letter, one-byte character or double-byte character. Moreover, writing comments within the setting file is disabled as well as writing multiple "Parameter = value" within one line or multiple lines is disabled.

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