



Handwriting Data Collection and Conversion System

User Manual Ver.1.0

Table of Contents

TABLE OF CONTENTS	2
INTRODUCTION	5
WHAT IS HANDWRITING DATA COLLECTION AND CONVERSION SYSTEM?.....	5
SYSTEM REQUIREMENT	5
TRADEMARK INFORMATION	5
COPYRIGHT NOTICE.....	5
SOFTWARE INSTALLATION.....	6
CHAPTER 1 FEATURES AND UTILIZATION FLOW OF HCC	8
HANDWRITING DATA TABULATION FLOW	8
CHAPTER 2 MAIN MENU.....	9
APPLICATION ACTIVATION.....	9
MAIN MENU DESCRIPTION	9
OTHER FEATURES	10
CHAPTER 3 PAGE SEGMENTATION OF PDF FILE	11
DISPLAY DESCRIPTION	11
READING PDF FILE	12
SPLITTING PDF FILE	12
CHAPTER 4 ITEM ATTRIBUTE FILE CREATION.....	13
DISPLAY DESCRIPTION	13
CREATING NEW ITEM ATTRIBUTED FILE	14
SETTING SPECIFIED RANGE OF ITEM ATTRIBUTE	14
SETTING THE ITEM ATTRIBUTE DESCRIPTION.....	15
1. CONFIRMING THE SPECIFIED RANGE.....	16
2. SETTING THE ITEM NAME	16

3-1. SELECTING ITEM TYPE	16
3-2. SETTING ITEM TYPE – HANDWRITING CHARACTER RECOGNITION ITEM –	16
SETTING THE ITEM VALUE	18
CORRECTING THE SPECIFIED RANGE OF ITEM ATTRIBUTE.....	18
DELETING THE SPECIFIED RANGE OF ITEM ATTRIBUTE.....	18
SETTING MULTIPLE ITEM NAMES	19
ITEM ATTRIBUTE FILE SUMMARY	20
DISPLAYING THE ITEM ATTRIBUTE FILE SUMMARY	20
ITEM ATTRIBUTE FILE LIST	20
DISPLAYING THE ITEM ATTRIBUTE LIST	20
EDITING ITEM ATTRIBUTE – CORRECTION –	21
EDITING ITEM ATTRIBUTE – COPY/PASTE/DELETE –.....	21
REARRANGEMENT OF ITEM ATTRIBUTE	21
<u>CHAPTER 5 PAPER PRINTING</u>	<u>22</u>
DISPLAY DESCRIPTION	22
LOADING ITEM SETTING FILE	23
PRINT SETTING	23
PRINT AFTER DISPLAYING THE SPECIFIED RANGE OF ITEM ATTRIBUTE	24
DISPLAYING PRINT PREVIEW.....	24
PRINTING STANDARD FORMAT.....	24
INPUTTING THE DATA WITH DIGITAL NOTEPAD.....	24
<u>CHAPTER 6 HANDWRITING DATA TRANSFER TO PC</u>	<u>25</u>
TRANSFERRING THE DIGITAL NOTEPAD DATA TO THE PC	25
<u>CHAPTER 7 PAGE SEGMENTATION OF HANDWRITING DATA</u>	<u>26</u>
DISPLAY DESCRIPTION	26
OPENING THE SPLIT FILE.....	27
EXECUTING PAGE SEGMENTATION.....	27
<u>CHAPTER 8 CSV CONVERSION OF HANDWRITING DATA</u>	<u>28</u>

DISPLAY DESCRIPTION	28
RETRIEVING HANDWRITING DATA INTO THE PC	29
POSITION COMPENSATION OF HANDWRITING DATA.....	30
CONVERTING HANDWRITING DATA INTO CSV FORMAT	31
CORRECTING CSV DATA	31
SAVING THE CONVERTED CSV	32
<u>CHAPTER 9 CONVERSION DATA CORRECTION.....</u>	33
OPENING THE FILE.....	33
CORRECTING CSV DATA	34
SAVING THE FILE	35
<u>ENDNOTE</u>	36
CHARACTER TYPE COMBINATION COMPATIBLE WITH HCC CHARACTER RECOGNITION SYSTEM	36
1 CHARACTER TYPE COMBINATION.....	36
2 RECOGNIZED CHARACTER LIST	36
SYSTEM PARAMETER SETTING METHOD FOR HCC	47
1. SYSTEM PARAMETER TYPES	47
2. REGISTRY.....	50
3. CONFIGURATION FILE.....	50

Introduction

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)

Trademark Information

“Technote” and “TN-A501 / TN-A401” are registered trademarks of KAIREN Co., Ltd., 3A Systems.Ltd and Pothos Corporation.

“Microsoft” and “Windows” are registered trademarks of Microsoft Corporation.

“Pentium” is a registered trademark of Intel Corporation.

“Adobe” and “Acrobat” are registered trademarks of Adobe Systems Incorporated.

All other trademarks are the trademarks of their holders.

Copyright Notice

KAIREN Co., Ltd. reserves the right to all data included in this document.

KAIREN prohibits, without prior notice, copy or distribution of any data included in this document.

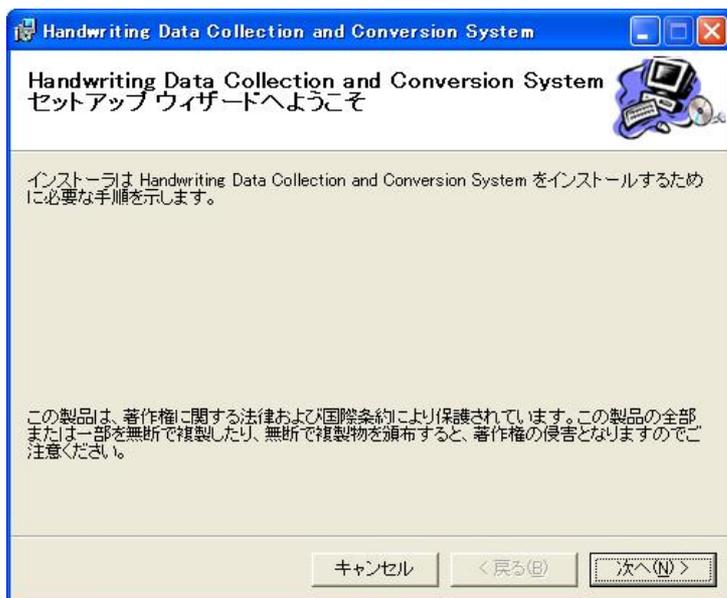
Note: The specification stated in this document subject to change without prior notice.

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

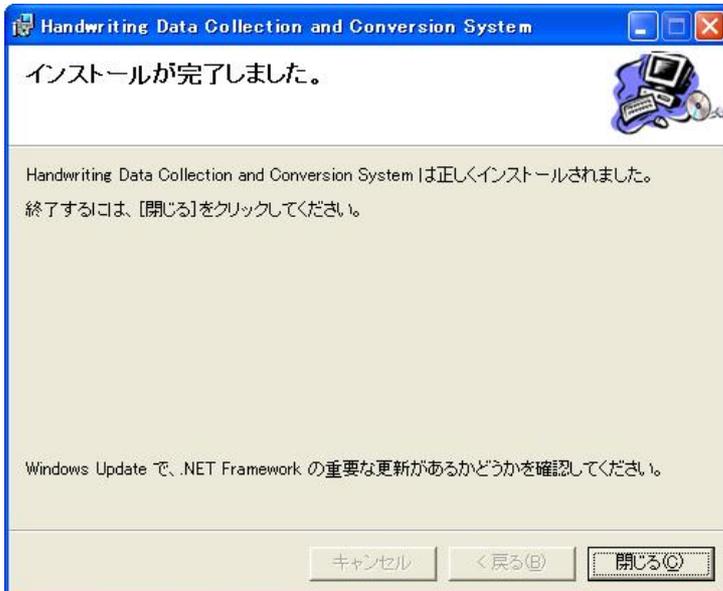
Confirm the displayed contents and click **NEXT (N) >**.



- 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)**.



Chapter 1 Features and Utilization Flow of HCC

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.

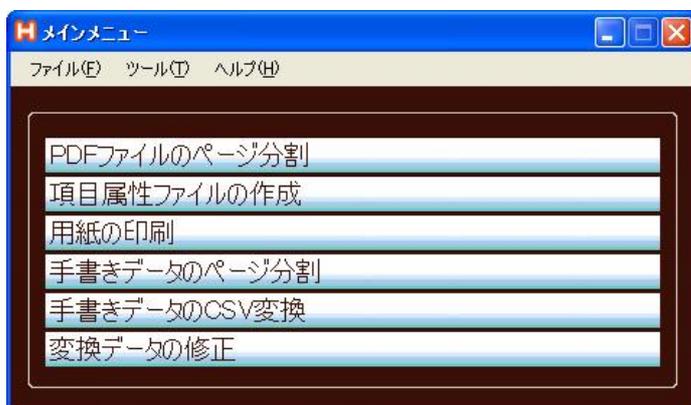
Chapter 2 Main Menu

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.

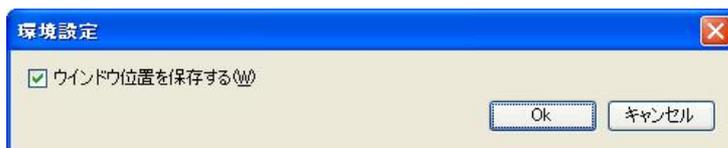
Converted Data Correction:

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.

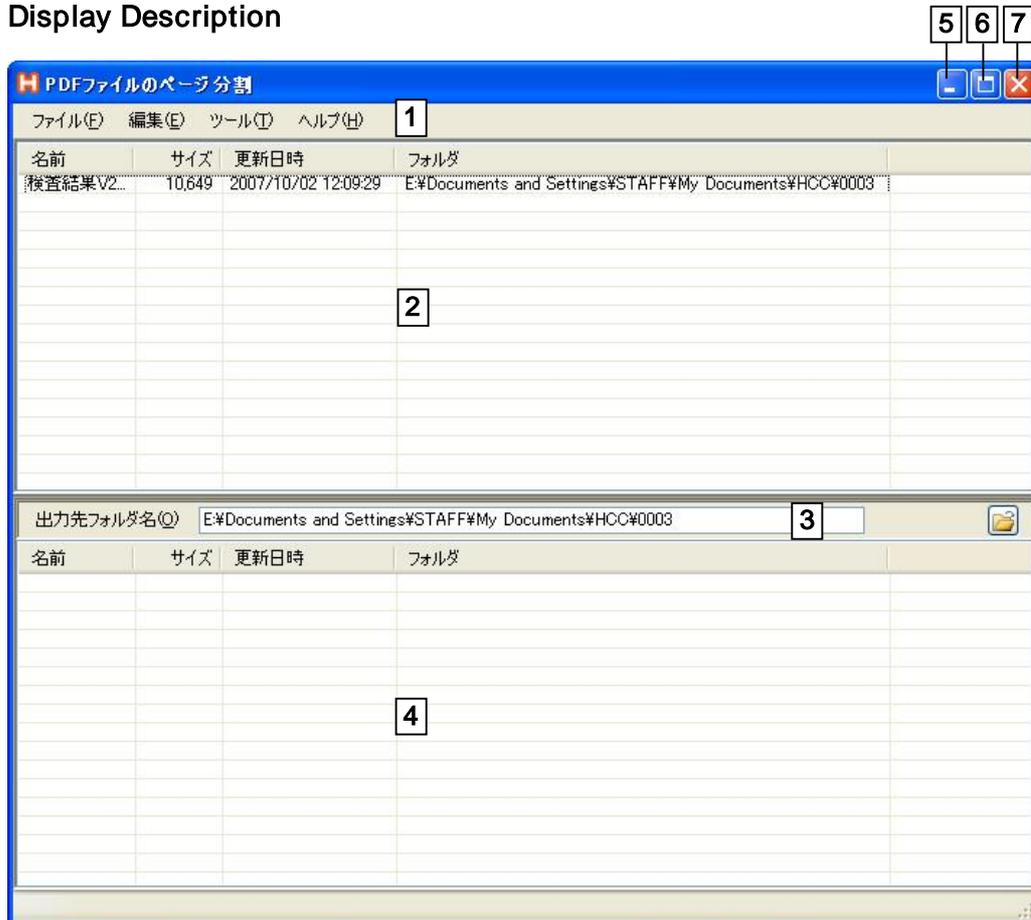
* It will be fixed to the position where currently displayed.

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.

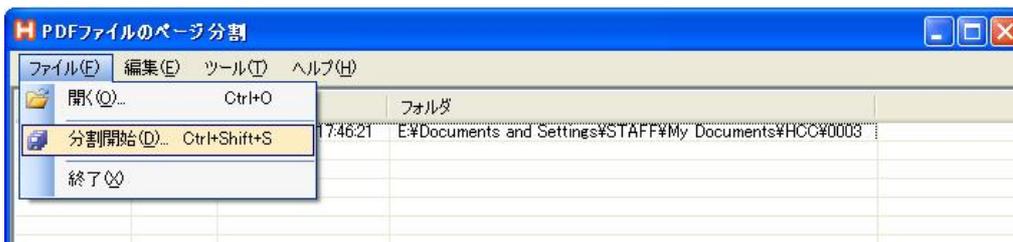


Search the splitting file from “PDF File Selection” dialogue box, and double-click or click button to open the relevant file.



Splitting PDF File

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

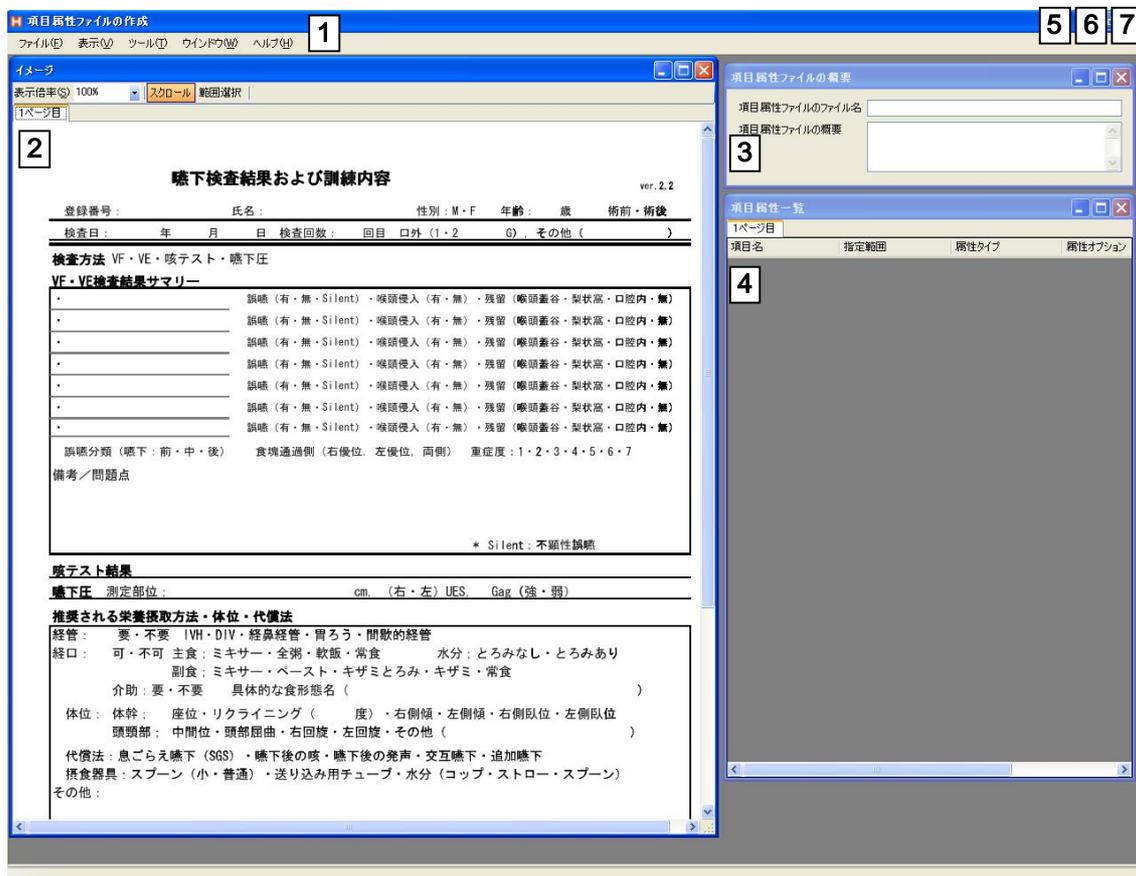


PDF file segmentation will start automatically, and the files will be saved in the folder where PDF file was originally saved.

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

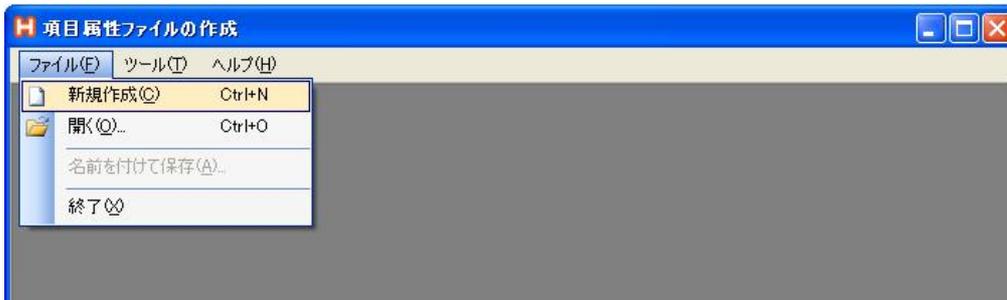
Display Description



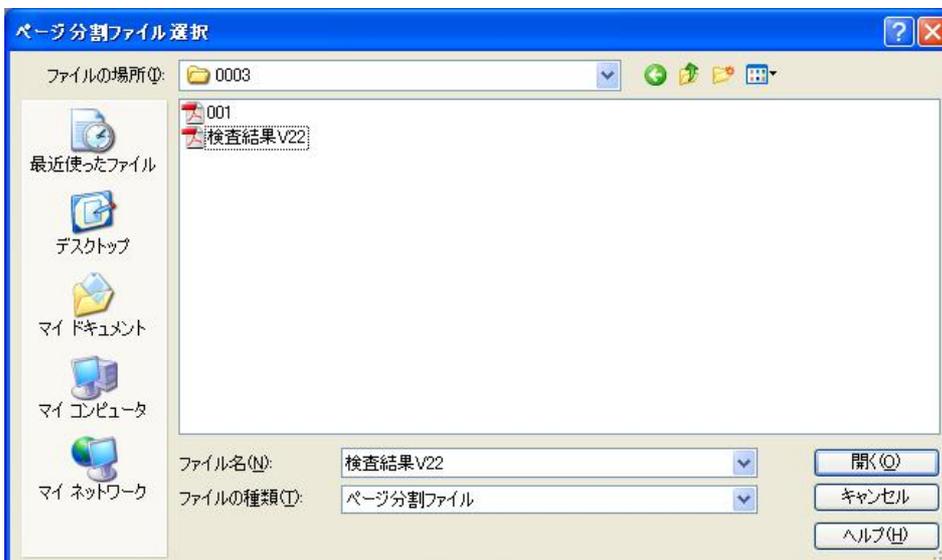
No.	Designation	Description
1	Menu Bar	Displays overall feature of item attributed file creation
2	Image Window	Window for setting item attribute
3	Summary Window of Item Attributed File	Enables to write in the summary of editing file or note
4	Item Attribute List Window	Displays the list of specified 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.



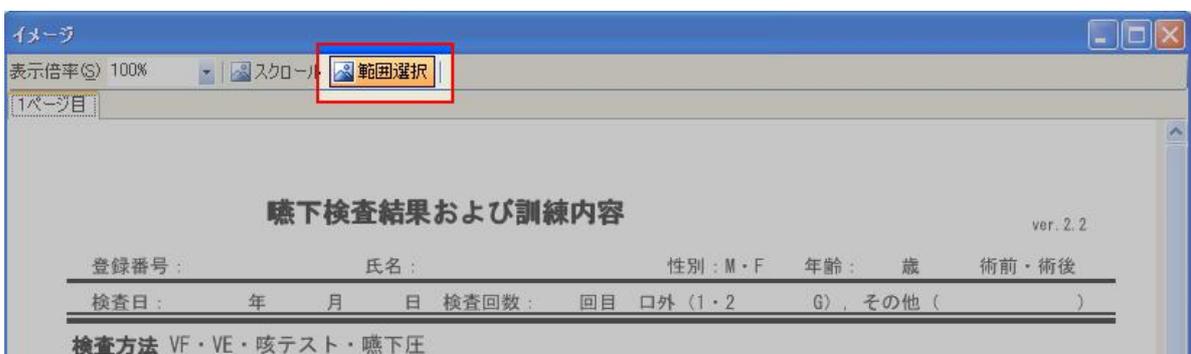
Search the file to specify the item attribute from “Page Segmentation File Selection” in the dialogue box, and double-click or click **Open (O)** button to open the relevant file.



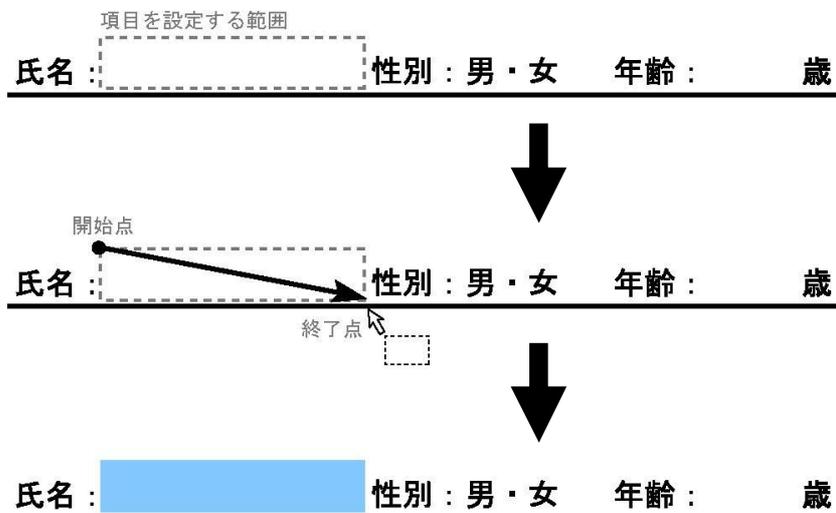
Setting Specified Range of Item Attribute

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.

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	Cancel 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.

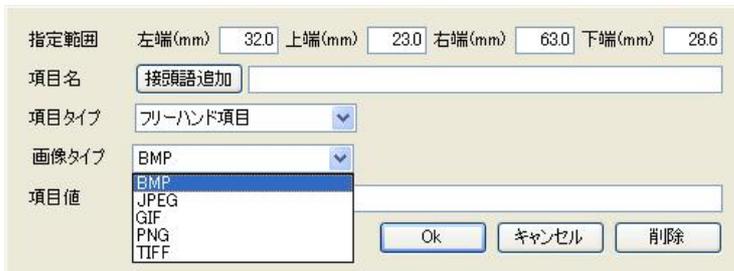
The selected types are as below.

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 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 button.

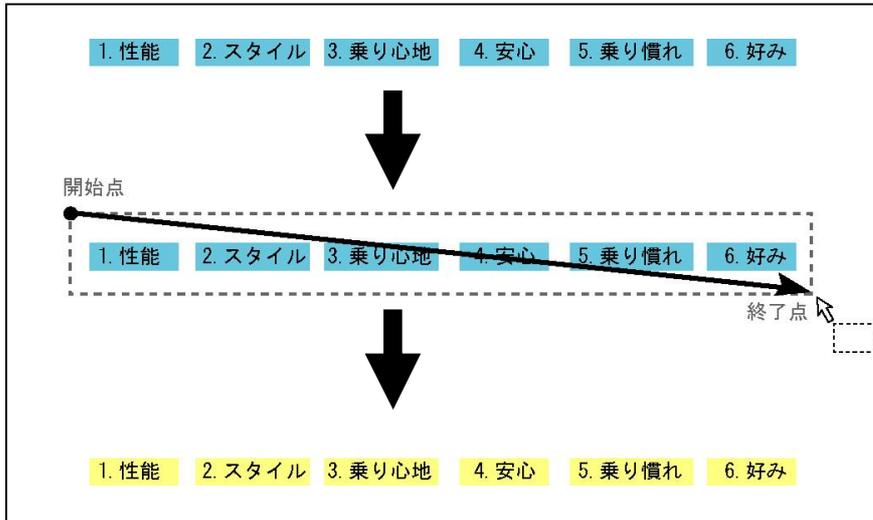
Deleting the Specified Range of Item Attribute

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 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 button, and then click button.

The input prefix will be saved in the memory, and the recorded prefix can be added by clicking 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.

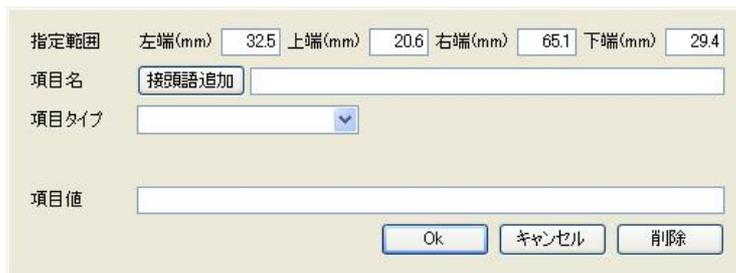
項目名	指定範囲	属性タイプ	属性オプション	項目値
お名前	18.5, 43.7, 72.5, 51.6	手書き文章認識項目	文字数=1.1;字種=漢字	スポーツ
年齢	72.8, 43.9, 85.2, 51.3	手書き文章認識項目	文字数=1.1;字種=半角...	
性別	95.3, 44.5, 100.0, 50.5	選択項目	選択タイプ=囲み選択	男
性別	103.5, 44.5, 106.6, 51.1	選択項目	選択タイプ=囲み選択	女
職業	110.9, 43.7, 147.1, 51.3	手書き文章認識項目	文字数=1.1;字種=漢字	
お住まいの県	147.4, 43.7, 192.1, 51.6	手書き文章認識項目	文字数=1.1;字種=漢字	
Q-1今乗っている車のタ...	24.3, 76.5, 27.3, 80.7	選択項目	選択タイプ=レ点選択	軽自動車
Q-1今乗っている車のタ...	46.6, 76.2, 49.5, 81.0	選択項目	選択タイプ=レ点選択	コンパクト
Q-1今乗っている車のタ...	72.8, 77.5, 75.7, 80.7	選択項目	選択タイプ=レ点選択	セダン

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.

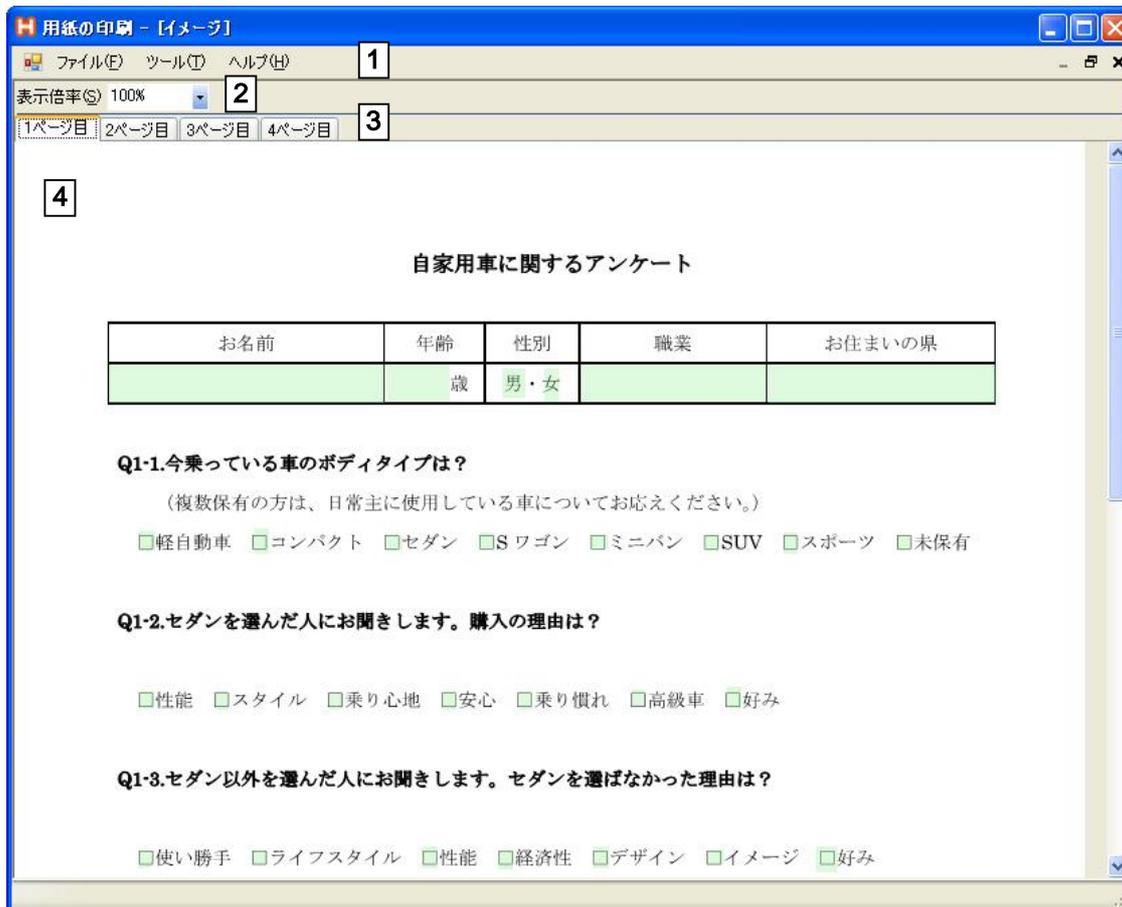
Rearrangement of “Item Name” can be conducted by selecting ascending or descending order.

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



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 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.

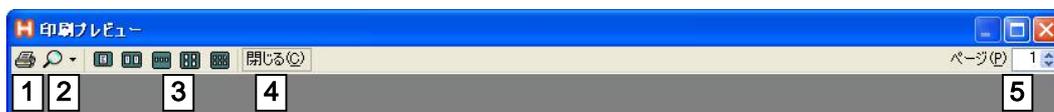
By selecting this setting, it will be printed with displaying both background color of item setting range and framework of character recognition item.



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.

Chapter 6 Handwriting Data Transfer to PC

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.



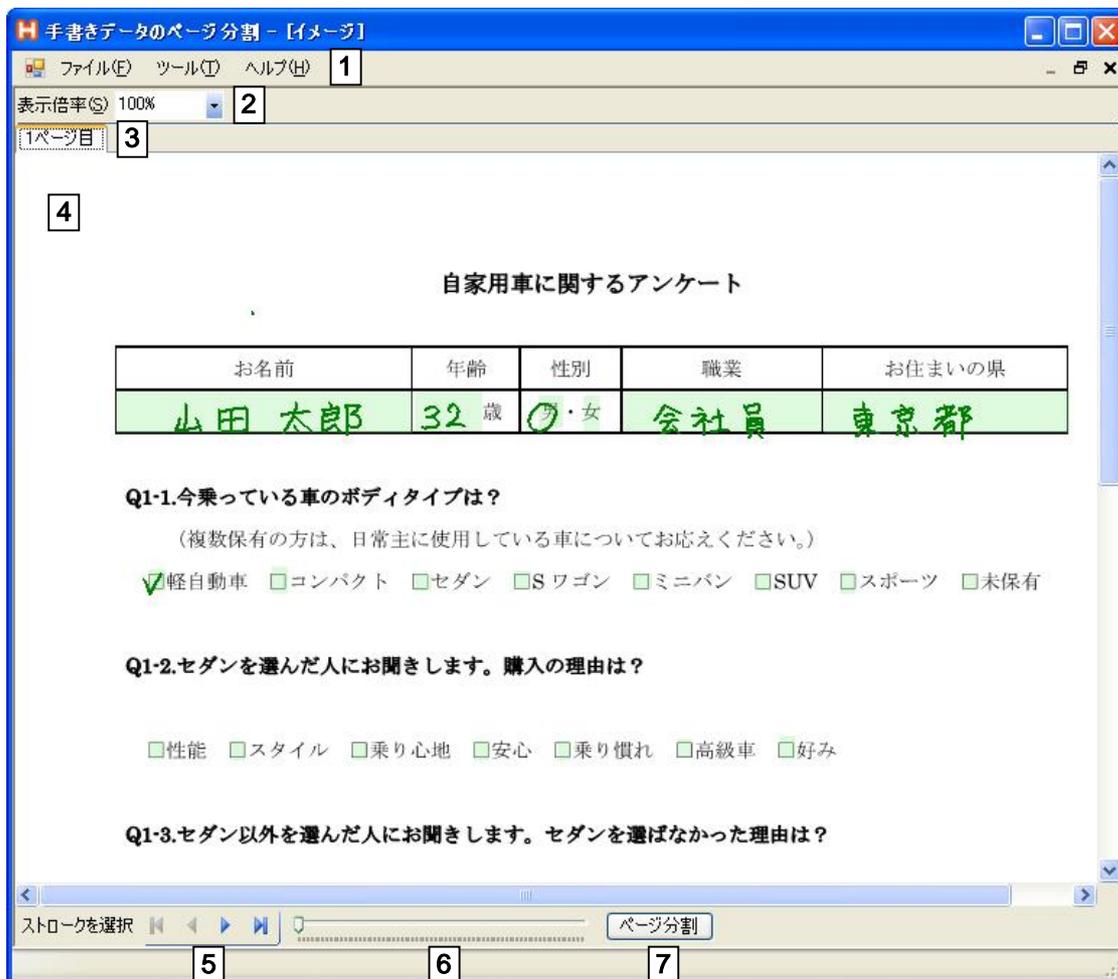
* By clicking the file with pressing “Ctrl” button, all files can be selected at the same time.

* 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.

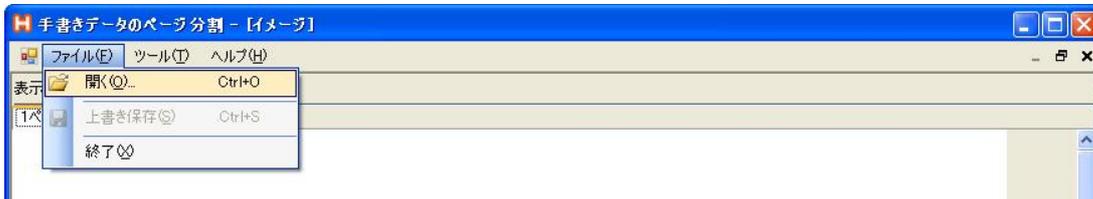
Display Description



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.

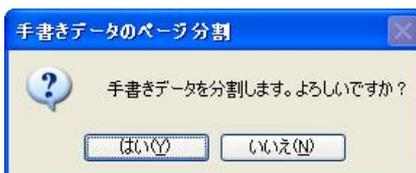


Executing Page Segmentation

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.

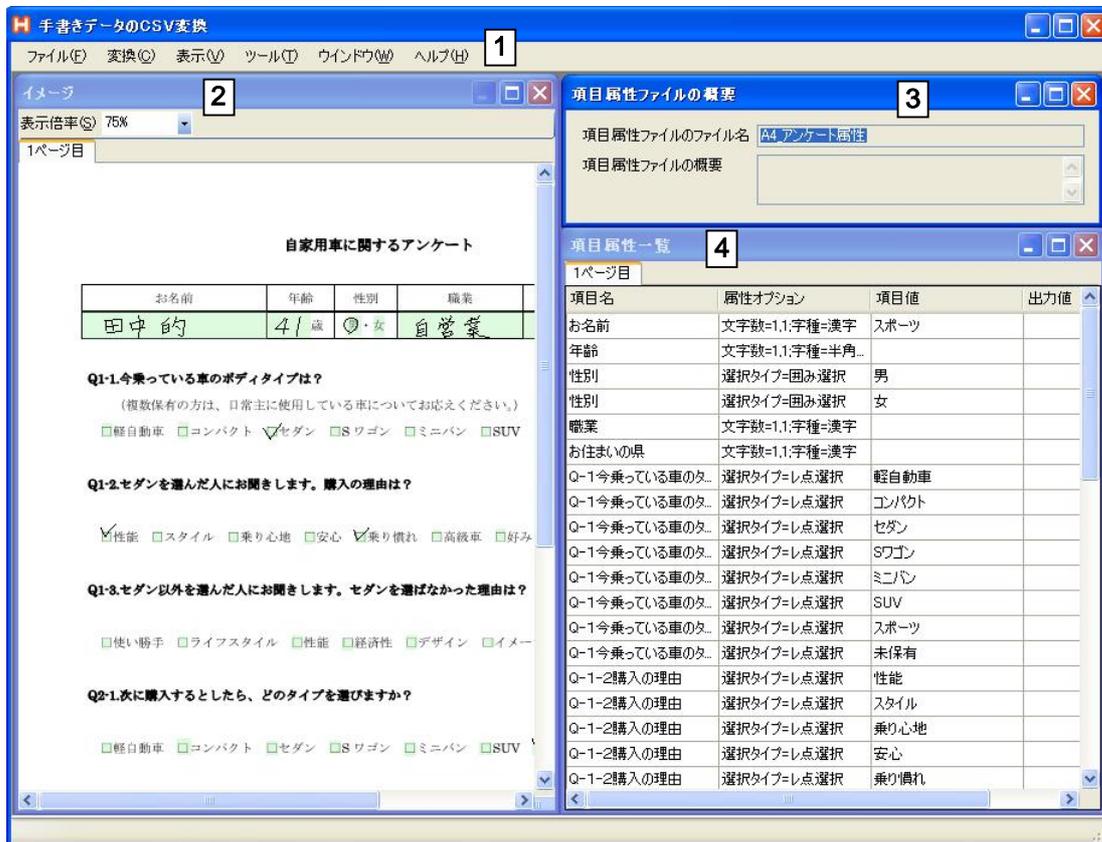


By clicking button, page segmentation will be conducted.

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 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 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”.

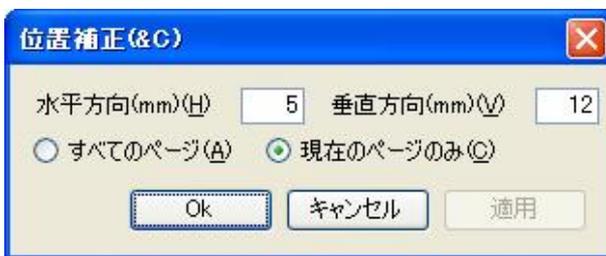
Position Compensation of Handwriting Data

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

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

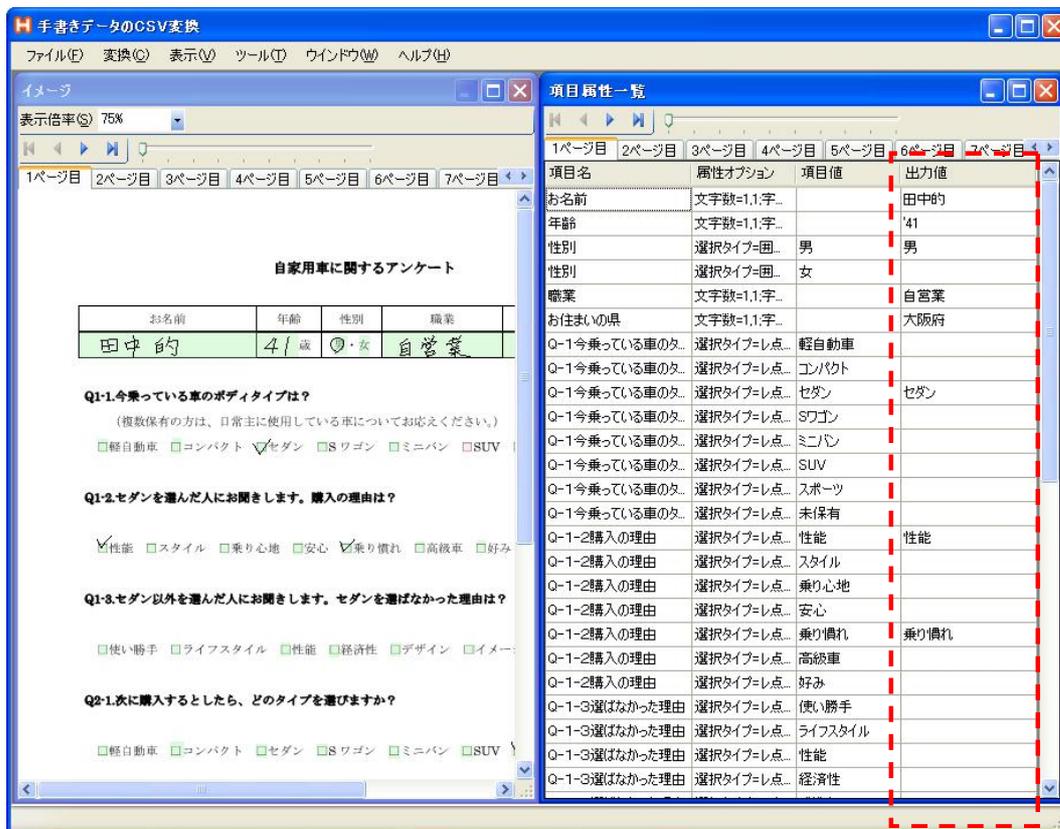
Converting Handwriting Data into CSV Format

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.

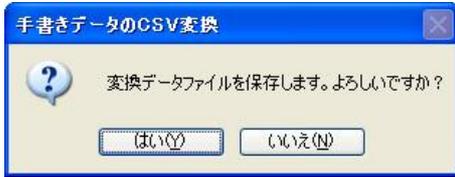
The selected area will be highlighted, and input becomes available. Then input the data directly into the PC.

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 的
年齢	文字数=1.1.字..		'41
性別	選択タイプ=団..	男	男
性別	選択タイプ=団..	女	
職業	文字数=1.1.字..		自営業
お住まいの県	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=レ点..	軽自動車	
Q-1今乗っている車のタ...	選択タイプ=レ点..	コンパクト	
Q-1今乗っている車のタ...	選択タイプ=レ点..	セダン	セダン
Q-1今乗っている車のタ...	選択タイプ=レ点..	Sワゴン	

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.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
	名前	年齢	性別-男	性別-女	職業	お住まいの	今Q-1-1	今Q-1-2	今Q-1-2	今Q-1-							
1	お名前																
2	田中の	41	1		自営業	大阪府			2								3
3	高山巖	20	1		歌手	東京都			2								
4	富田茂男	38	1		サラリーマ	埼玉県							5				
5	滝澤十三	38		1	AT&CE	新潟県											
6	泊田幸平	38	1		営業	千葉県											
7	山田太郎	32	1		会社員	東京都	1										
8	東山睦	20	1		会社員	東京都			2								
9	河原井明	32	1		無職	東京							5				
10	洪崇富	43	1		会社員	東京都	1										
11	高澤仁志	27	1		運送業	熊本県					4						
12	吉村大作	58	1		教師	三重県	1										
13	富山富士太郎	32	1		会社役員	東京都									5		
14																	
15																	
16																	
17																	

Chapter 9 Conversion Data Correction

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 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 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.

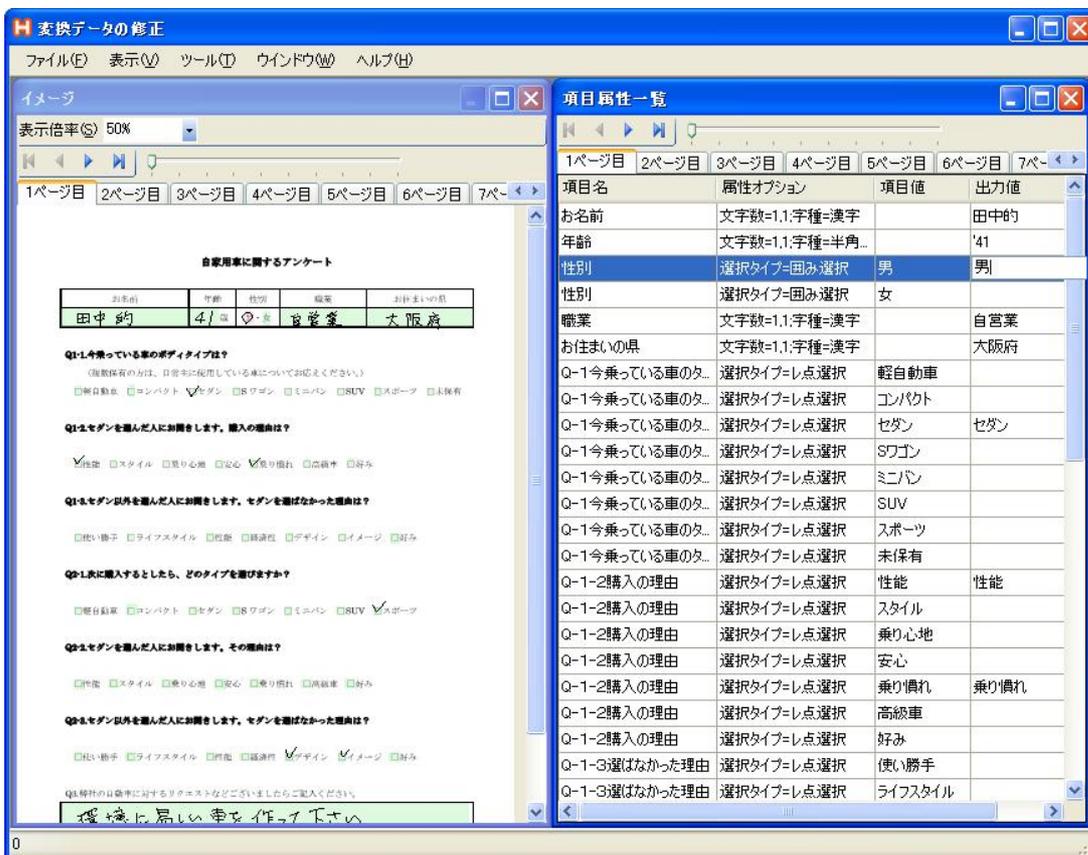


Correcting CSV Data

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

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

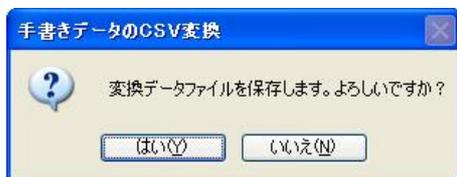
Then input the data directly into the PC.



Saving the File

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

Click when confirmation message is displayed.



The dialog 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.



Endnote

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)

、 〃 〃 〃 〃 ; "''''

2.3 Numeric Characters

(30 characters)

0123456789

2.4 Alphabet

(52 characters)

ABCDEFGHIJKLMNPO

QRSTUVWXYZabcdef

ghijklmnopqrstuv

wxyz

2.5 Hiragana Characters

(83 characters)

ぁあぃいぅうぇえぉおかがきぎくぐ
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ほぼぽまみむ
めもややゆゆよよらりるれろわわゐ
ゑをん

2.6 Katakana Characters

(86 characters)

アアイウエエオオカガキクグ
ケゲコゴサザシジスズセゼソゾタダ
チヂッツツテデトドナニヌネノハバ
パヒピピフブプヘベペホボポマミム
メモヤユヨヨラリルレロウワヰ
ヱヲンヴカケ

2.7 Greek Characters

(38 characters)

ΔΣΦΩαβγδεζηθικλμ
Νξοπρστυφχψω

2.8 JIS level-1 Kanji Set

(2981 characters)

-1-

啞哇阿哀愛挨始 逢葵茜穉惡握渥旭
葦芦鯪梓压斡扱宛 姐虻飴絢綾鮎或粟
裕安庵按暗案闇鞍 杏以伊位依偉困夷
委威尉惟意慰易椅 為畏異移維緯胃萎
衣謂違遺医井亥域 育郁磯一壹溢逸稻
茨芋鱒允印咽員因 姻引飲淫胤蔭院陰
隱韻吋右宇烏羽迂 雨卯鷄窺丑碓臼渦
噓唄鬱蔚鰻姥厩浦 瓜閏噂云運雲荏餌

-2-

馥嘗嬰影映曳榮永 泳洩瑛盈穎穎英衛
詠銳液疫益駛悅謁 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 央輿往忝押旺橫歐
毆王翁襖鶯鷗黃岡 沖荻億屋憶臆桶牡
乙俺卸恩温穩音下 化飯何伽伽佳加可
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 課擘貨迦過霞蚊俄
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
碍蓋街該鎧骸涅馨 蛙垣柿蛎鈎劃嚇各
廓擴攬格核殼獲確 穫覺角赫較郭閣隔
革學岳樂額顎掛笠 櫪檣梔鯁瀉割喝恰
括活渴滑葛褐轄且 鯉叶椶樺鞞株兜竈

-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
顏願企仗危喜器基 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-

技擬欺犧疑祇義蟻 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
境峽強疆怯恐恭挾 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
軀馱駟駒具愚虞喰 空偶寓遇隅串櫛釧
屑屈掘窟沓靴轡窪 熊隈彙栗縲桑鋤勳
君薰訓群軍郡卦袞 祁係傾刑兄啓圭珪
型契形徑患慶慧憩 揭携敬景桂溪畦稽
系經繼繫罨荃荊蚩 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-

檢權牽犬獻研硯絹 鼎肩見謙賢軒遣鍵
險顛驗齟元原蔽幻 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 跨鈿雇顧鼓五互伍
午吳吾娛後御悟梧 檣瑚暮語誤護翻乞
鯉交佼侯候倖光公 功效勾厚口向后喉
坑垢好孔孝宏工巧 巷幸広庚康弘恒慌
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 鉞砢鋼閣降項香高
鴻剛劫号合壕拷濠 豪轟鞠克刻告国穀
酷鵠黑獄澆腰甌忽 惚骨狍込此頃今困
坤墾婚恨懇昏昆根 梱混痕紺艮魂些佐
叉峻嵯左差查沙磋 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 際劑在材罪財冚坂

-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
薩雜臯鯖捌鏑鮫皿 晒三傘參山慘撒散
棧燦珊產算纂蚕讚 蕘酸餐斬暫殘仕仔
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-

而耳自蒔辭汐鹿式 識鳴竺軸穴零七叱
執失嫉室悉濕漆疾 質寔郤篠僂柴芝屢
蕊縞舍写射捨赦斜 煮社紗者謝車遮蛇
邪借勺尺杓灼爵酌 稘錫若寂弱惹主取
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 蹴輯週酋酬集醜什
住充十從戎柔汁涉 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 湘烧焦照症省硝礁
祥称章笑粧紹肖莒 蒋蕉衝裳訟証詔詳
象賞醬鈺鍾鐘障鞘 上丈丞乘冗剩城場

-12-

壤孃常情擾条杖淨 状置穰蒸讓釀錠囑
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
真神秦紳臣芯薪親 診身辛進針震人仁
刃塵壬尋甚尽腎訊 迅陣鞞筈諏須酢凶
厨逗吹垂帥推水炊 睡粹翠衰遂醉錐錘
随瑞髓崇嵩数枢趨 雜据杉帽菅顏雀裾
澄摺寸世瀨畝是凄 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
請逝醒青静齐税脆 隻席惜戚斥昔析石
積籍績脊責赤跡蹟 碩切拙接撰折設窃
節說雪絕舌蝉仙先 千占宣專尖川戟扇
撰栓梅泉浅洗染潜 煎煽旋穿箭線織羨
腺舛船薦詮賤踐選 遷錢銑閃鮮前善漸
然全禪繕膳糰嚙塑 岨措曾曾楚狙疏疎
礎祖租粗素組蘇訴 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 騷像增憎臙藏贈造
促側則即息捉束測 足速俗属賊族統卒
袖其揃存孫尊損村 遜他多太汰訖唾墮
妥情打柁舵橈陀馱 驛体堆对耐岱帶待
怠態戴替泰滯胎腿 苔袋貸退逮隊黛鯛
代台大第醜題鷹滝 瀧卓啄宅托扱拓沢

-15-

濯琢託鐸濁諾茸胤 蛸只叩但達辰奪脫
巽豎迥棚谷狸鱈樽 誰丹单嘆坦担探旦
歎淡湛炭短端箎綻 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 衷註耐鏄駐樗瀕猪
芋著貯丁兆凋喋寵 帖帳庁弔張彫徵懲
挑暢朝潮牒町眺聽 脹腸蝶調諜超跳鈔

-16-

長頂烏勅抄直朕沈 珍賃鎮陳津墜椎槌
追鎚痛通塚拇搥楓 佃漬柘辻蔦綴鏢椿
漬坪壺孀紉爪吊鈞 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
笛適適溺哲徹撤鞞 迭鉄典填天展店添
纏甜貼軫顛点佗殿 澱田電兔吐堵塗妬
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
搭東桃梔棟盜淘湯 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
峠鴉匿得德洸特督 禿篤毒独誦析椽凸
突椴届鳶苦寅酉瀨 噸屯惇敦沌豚遁頓
吞曇鈍奈那内乍凧 薙謎灘捺鍋櫛馴繩
罨南楠軟難汝二尼 忒迤匀脈肉虹廿日

-18-

乳入如尿菲任妊忍 認濡襦祢寧葱猫熱
年念捻燃燃粘乃迺 之埜囊惱濃納能腦
膿農覘蚤巴把播霸 杷波派琶破婆罵芭
馬俳廢拜排敗杯盃 牌背肺輩配倍培媒
梅煤煤狽買壳賠陪 這蠅秤矧荻伯剝博
拍柏泊白箔粕舶薄 迫曝漠爆縛莫駁麥
函箱碇箸筆筭櫨幡 肌畑畠八鉢洸癸醜
髮伐罰拔筏闊鳩嘶 塙蛤隼伴判半反叛

-19-

帆搬斑板汜汎版犯 班畔繁般藩販範采
煩頒飯挽晚番盤磐 蕃蠻匪卑否妃庇彼
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
稗匹疋髭彥膝菱肘 弼必畢筆逼檢姬媛
紐百謬佞彪標冰漂 瓢票表評豹廟描病

秒苗錨鉞蒜蛭鱗品 彬斌浜瀕貧賓頻敏
瓶不付埠夫婦富富 布府怖扶敷斧普浮

-20-

父符腐膚芙譜負賦 赴阜附侮撫武舞葡
蕪部封楓風葺落伏 副復幅服福腹複覆
淵弗弘沸佻物鮒分 吻噴墳憤扮焚奮粉
糞紛霽文聞丙併兵 堀幣平弊柄並蔽閉
陞米頁僻壁癖碧別 瞥蔑篋偏變片篇編
迈返遍便勉媿弁鞭 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

-21-

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
貿銓防吠頰北僕卜 墨撲朴牧睦穆鈞勃
沒殆堀幌奔本翻凡 盆摩磨魔麻埋妹昧
枚每哩禛幕膜枕鮪 枉鱗榭亦俟又抹末
沫迄佞繭磨万慢滿 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

-22-

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 厄役約彙訊躍靖柳
藪鏗愉愈油癒諭輸 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
曜楊樣洋溶熔用窠 羊耀葉蓉要謠踊遙
陽養慾抑欲沃浴翌 翼淀羅螺裸來萊賴

-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 熒琳臨輪隣鱗麟瑠
墨淚累類令伶例冷 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

-24-

朗樓榔浪漏牢狼籠 老聾蠟郎六麓祿肋

錄論倭和話歪賄脇 惑杳鷺互巨鱒詫藁

蕨椀灣碗腕

2.9 JIS level-2 Kanji Set

(1095 characters)

-1-

丕聿乖乘豫舒于亞 亟亢仄仗佛佗佇侈

侑來儘俟俎俚佻倚 倪倅俯倆偕做傀傲

傳僞僭價儉儷兀兒 兌免兢冤寇凜几凰

勿剝剋剪剩剽劍劔 勁勳甸卍卷厯曼叭

吽吝呖呵咎咳咭呻 咄哄咤哮喘哇啜啖

喀喘單啼喻嗚嗅嗟 嗜嘔嗽噎嘴嘲噪噤

嚴囂囂囹囹圈國圓 團圞坏址坏坭垚坡

圻坵埃垚垓垓垓 塢堡毀塢塢壞壘壘

-2-

壘壯壺壽夥天奎奘 奢奧獎奸妍媠婉娶

婢婪媚嬌孃子孕孵 學寔實寢寥寶寶將

專對屁屏屾岫岷岷 嶰岫峙峽峯崗寄崔

峻嶢嶮嶽巖已帛帶 帷幟幫廂廡廡廡

弩彈彌彎彗彗彗 徂徂從徕徕忝忝

恪恆恍恣恃恤恬恙 悍惧悄俊恪惡悸惠

悴悽愕惺愍愍愍愍 愴慄慄慄慄慄慄

憊憑憫憫憫應懷懈 愴罹穢戔戔戔戔戔

-3-

戲扁扣扼杼抓拔拗 拿拜拂拇拋拉拈拈

拈拈挾搜捏捏掙掙 揆揣揉插擲搖擗擗

搗搏摯攪撓撥撼擗 擗擗抬攪擗擗擗擗

攪攪收效敍敲斂斂 斟旛早昵昴晏晝晨

晟晰暉暘曉曖曰隴 霸朶杓杞杠杙杙杙

枌枌枌枌枌枌枌枌 枌枌枌枌枌枌枌枌

條椰挺檣檣檣檣 椴椴椴椴椴椴椴

椴椴棠棣櫚櫚櫚 楔楮楮楮楮楮楮

-4-

槐橙槁榷榷榷榷 樂糶縱密樣檣檣

檄檢槩檻櫃櫟櫻櫛 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 涅淵涵涸淆淌淨涓
渙渾湫涼游混滓溯 滔滕溥灌漿滲漱滯
滌澁潭澎澳澤澹濤 濕濱瀉瀘瀦瀝瀾炙
炒炯炬炸烟烙焉焙 煥熙煬熏燻熨熹熾
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 珈玻珀琥瑀珙瑕瑁
瑣瑤璋璧瓏甃甕甞 眈眈畸疇疊疵痒痊
瘁痰痺瘍瘤癭痼癩 癩癸自皓皴孟盡盧
盪眈眈眩真眸睨睫 睛睿睽瞑瞠瞞瞞瞼
矜矮兀砌砒礪碎砒 砒礪碌磴磋磊磧礪
礪祀祠祇崇祚祕袂 祿禧齋禪禮拒菝秣
稠稟稟稻穗穢穰穰 窈窩竈鼠竇站竦筑
笏笙笄筍筌筵筮筮 笮箴箝箋箒箒箒箒

-6-

篁箴篆箐節箘箘篔 籠簣簇築篤籃籩籐
籟籟籟矜粹糝稼糝 糜糲糲紆紆絆紆綺
綵總綸緘縹緞緻縠 縣縱縋縋縋縋縋縋
纏縵纖縵缺罇罇罇 罇罇羞羲翊翊翊翊
翻耆耄耘耿聊聘聚 聦聰聽肆肱胷胚肱
脛脩腑臄腥膀膂膠 腔臍臍臍臍臍臍臍
舅與舐舩舩舩舩舩 艘臚艱芒苜苜苜苜
茱荀茹茫茗莅莛莛 莎苎莊茶菟莉莖莖

-7-

菲范萌莽莢葭葭萬 施蓀蔡蔗蓼蓼蓼蓼
薊蕘薈薈薈薈薈薈 蘊藺蘆度蛉蝻蝻蝻
蛭蛭蜀蛭蝻蝻蝻蝻 蝻蝻蝻蝻蝻蝻蝻
蟠蟠衙衙袁衲衲袂 袂袂袂袂袂袂袂
褶襦觀覽觀觜訃訃 訃訃訃訃訃訃訃
誠誑誑誑誑諫諧諷 諷諷諷諷諷諷諷
讒讚貪貶賤賣贄贄 贄贄贄贄贄贄贄
跬踞踞踞踞踞踞踞 踞踞踞踞踞踞踞

-8-

軛輻輻輻輻輻輻輻 輻輻輻輻輻輻輻輻
逡逍逞達遏避遽邁 邊邊邊邊邊邊邊邊

釀釁釉釜鈎鈎鈎鈎 鉗鉤鈇鉈鉉鉊鉋鉌
錚錛錒錓錔錕鐵 鐵錙鑄鑪鑠鑠鑠
閨閼閻閼閼閼閼阡 阮陋陷阨隘隕險雉
雍雜霄霄霖靄靜勒 鞅鞅鞅鞅鞅頌頌頌頌
頹頹顯顯颯颯颯飭 餞餅饘饘饘饘饘
駢駢駢駢駢駢駢駢 驕驗髮髻鬢鬢鬢

-9-

魏鮐鮐鮐鮐鮐鮐鮐 鮐鮐鮐鮐鮐鮐鮐鮐
鯁鯁鯁鯁鯁鯁鯁 鳶鳶鳶鳶鳶鳶鳶
鸚鸚鸚鸚鸚鸚鸚 黎徽鼈鼓齊齧楨瑤
昇增寬崎德昂朗棗 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.

“Handwriting Data Collection and Conversion System” Instruction Manual Ver.1.0

First Edition Issued on October, 2007

Issued by: KAIREN Co., Ltd.

©2007 KAIREN Co.Ltd, All rights reserved.