Braille EDGE 40 User Manual

ENGLISH MANUAL

(December, 2011)

**When there are any manual updates,
the readme files or appendices
will be added to the manual CD
and website.**

HIMS International Corporation

<u>Safety Precaution</u>

For your safety from the Braille EDGE 40, please read safety precautions carefully.

1. The input voltage of the AC adapter is 100V - 240V, and the output is DC 5V / 2A.

2. When you use the Braille EDGE 40 with the battery for the first time, the battery status may not be displayed accurately. In order to avoid this, connect the Braille EDGE 40 to the AC adapter for more than four and a half hours to fully charge the battery with turn on or connect to the Braille EDGE 40 to the USB cable for more than ten and a half hours.

3. Your Braille EDGE 40 needs to be handled with care. The Braille EDGE 40 is a very delicate machine. You should make sure to handle the unit in a proper manner. Also, the Braille EDGE 40 is very sensitive to dust. Make sure to keep the Braille EDGE 40 away from dusty environments.

4. The Braille cells are very sensitive parts. If any of the Braille cells are not working properly due to dust or any other reason, please contact our repair center, or the dealer whom you purchased the Braille EDGE 40 from for support.

5. If you let your Braille EDGE 40 remain for a long time at the closed or high temperature places like inside of car, the battery attached to the Braille EDGE 40 may be defected or fired. So please don't keep your Braille EDGE 40 at those places.

6. Do not take apart the Braille EDGE 40 by yourself. Do not have anyone else who is not authorized by HIMS take apart the Braille EDGE 40. If an unqualified person disassembles the unit, serious damage may occur to the Braille EDGE 40. If an unauthorized person disassembles the Braille EDGE 40, the unit will be excluded from any free maintenance, and the warranty will become void. If any liquid or external force damages the unit, it may also be excluded from free maintenance, even if the damage occurred during the warranty period.

7. If you have any complaints or suggestions, please provide us with your comments on our website. We will improve our product based on your comments and suggestions. Thank you for using the Braille EDGE 40, and we value any comments or suggestions you have for our product.

8. 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.

    Operation is subject to the following two conditions.
    1) This device may not cause harmful interference, and
    2) This device must accept any interference received, including interference that may cause undesired operation.

    This equipment can generate, use and 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 or more 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.

    IMPORTANT NOTE:
    FCC RF Radiation Exposure Statement:
    This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

    Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

<u>Notice</u>

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Table of contents

1. Getting Started

1.1 What is the Braille EDGE 40?

(Please write it in detailed)

- Braille Display with screen reader
- Support Notepad function(create/edit document)
- Support many utilities
  - Calculator, Alarm, Scheduler, Stop watch, Count down
- Support mouse interface

1.2 Package

1) Braille EDGE 40 1 unit
2) Power Adapter
3) USB Cable
4) Carrying Bag
5) User Manual
6) Hot key Braille Manual

1.3 Specification of Hardware

1) Operating System: Windows CE 5.0
2) RAM: 128 MB
3) CPU: Samsung S3C2443X
4) Battery: Lithium polymer.
5) Running Time: About 17 hours
6) Keyboard: 9 Braille keyboards with Perkins type, 8 Function keys, 8 Navigation buttons, 4 Scroll buttons, 40 cursor routing keys.
7) Button: Power button, Bluetooth switch button
8) Braille display: 40 refreshable Braille cells
9) Bluetooth: 2.0
10) Interface:1 USB OTG port(ver.2.0), 1 SD slot
11) Sound: Mono speaker
12) Size: 31cm x 10.2 cm x 2.2 cm

1.4 Hardware

1.4.1 Top panel

Let me explain top panel from front to back. On the top panel, there are Braille display, 4 scroll buttons, 40 cursor routing keys, Perkins type 9 Braille keyboards, 8 function keys, 8 navigation buttons, speaker and LED.

Braille Display: 40 cells
Cursor routing key: 40 cursor keys
Scroll button: Each 2 scroll buttons both side.
Braille keyboard: Backspace, dot 3, dot 2, dot 1, Space, dot 4, dot5, dot6, Enter
Function key: (From F1 to F8) Esc, Tab, Ctrl, Alt, Shift, Insert, Window, Pop-up.
Navigation button: Each 4 navigation button both side. Up/down/left/right arrow buttons.

Speaker and LED: Speaker is located between dot 1 and dot 4. Above navigation key on right side there are two LED light to indicate Bluetooth and power on/off. Left LED light turns blue when Bluetooth turn on and right LED light turn yellow when the unit is turned on while right LED light turn red when the unit is being charged.

1.4.2 Left Side Panel
Let me explain left side panel left side panel from front to back. On the left side panel, there are Bluetooth switch and 1 SD slot.
Bluetooth switch: If you move this switch to back (Bluetooth is on), you can use screen reader via Bluetooth.
If you move this switch to front (Bluetooth is off), you can use screen reader via USB cable.

1.4.3 Right Side Panel
Let me explain right side panel from front to back. There are USB OTG port and AC adapter jack.

1.4.4 Front Pane
Let me explain front panel front panel from right to left. On the front panel, there is only power button. Power button has 2 functions, one is power on/off and the other is sleep mode on/off. If you press power button above 3 seconds, Braille EDGE 40 will turn off or turn on. If you press power button shortly, Braille EDGE 40 will go into sleep mode or wake up from sleep mode.

1.4.5 Rear Panel
Let me explain rear panel from right to left. On the rear panel, there are 'Shut down' button and 'reset' button.
Shut down button: There is a small hole for the 'shut down' button, which is used when reset button doesn't work or when battery is totally dead and AC adapter doesn't solve the problem. You can use a toothpick or the end of a paperclip to press the reset button. Be careful when pressing the reset button because pressing too hard or using an end too small may damage the device if you are not careful.

If you press Shut down button on the rear panel with and then press power button on the front panel, Braille EDGE 40 will reboot. This shut down button will initialize all settings.

2. Basic Function

2.1 Power on/off
Press the power button on right side of the front panel above 3 seconds when turning the unit on/off.

While the unit is on if you press the power button shortly, the unit go into sleep mode. If you press the power button shortly again, the unit wake up from the sleep mode.

2.2 How to navigate
Move to the next item: down navigation button or Space-4

Move to the previous item: up navigation button or Space-1
Move to the first item: up navigation button-left navigation button or Space-1-3
Move to the last item: down navigation button-right navigation button or Space-4-6
Move to next 40 item: Alt-up navigation button or Space-1-2-6
Move to previous 40 item: Alt-down navigation button or Space-3-4-5
Execute program: Enter or right navigation button or cursor routing key 2 times
Enter sub folder: Enter or right navigation button or cursor routing key 2 times
Cancel: Esc key or left navigation button

2.3 Function key

(Function keys are explained from left side to right side)

F1: Esc. (Cancel the menu/program)
F2: Tab
F3: Ctrl
F4: Alt. (Call up the menu)
F5: Shift
F6: Insert
F7: Window
F8: Pop up

Note: You cannot multitask with Braille EDGE 40. So there is no function key to call up the main menu on the Braille EDGE 40. If you want to execute other program or menu, you have to close or cancel current menu or program.

2.4 Main Menu

Main Menu consists of 5 Menu, Notepad, Braille Display, Application, Option and Information.
1. Notepad
2. Braille Display
3. Application
4. Option
5. Information

Shortcut key: shortcut key is on brackets. If you press the shortcut key, you can execute the menu or item.
Sub menu: When there are sub menu, left arrow sign, dots 2-5 and dots 1-3-5 are displayed.
Dialog: When there are dialog, three dot 6 signs are displayed.

2.5 Charging and using battery

Check battery status: Space-P (dots 1-2-3-4)

2.6 Reset

Use the reset button on the rear panel.

2.7 Set date and time

Please follow instructions to set date and time.

1) Press Ctrl-S (dots2-3-4)

Or press 'Alt' or Space-M(dots 1-3-4) and then press on the Set(s).

2) Type time by yourself and when you want to modify, press cursor routing button on the time to move cursor location and type time again. Or you can also use navigation button.

Up/down button: change time

Left/right button: Convert to hour or minute

3) Press ENTER or right navigation button and then you can move to the Month dialog box.

4) Type month, day and year. Ex) 01252012 (25th January, 2012) Or you can also use navigation button.

Up/down button: change date

Left/right button: Convert to month, day, year

5) Press ENTER to save the setting.

2.8 Using help menu

Press Space-H (dots1-2-5) to open the help menu.

Move to the item with Space-dot 1/space-dot4 and select the item with ENTER.

2.9 Using mouse with Braille EDGE 40

You can use mouse with Braille EDGE 40. To connect mouse to Braille EDGE 40, follow below instructions.

1) Connect USB mouse to USB OTG gender.

2) Connect USB OTG gender to the USB OTG port on the Braille EDGE 40.

You can use below function with mouse on the Braille EDGE 40.

1) Click on the right mouse button: Open menu/ Alt
2) Double click on the right mouse button: Open the global option menu/Space-O (dots1-3-5)
3) Click on the left mouse button: Choose or dechoose (Only on the file browser)
4) Double click on the left mouse button: Execute the selected function
5) Click both right mouse button and left mouse button: Exit function/ Space-Z(dots 1-2-5-6)
6) Scroll wheel button down: Move to the below/next item, Space-dot 4
7) Scroll wheel button up: Move to the up/previous item, Space-dot 1
8) Click on the left mouse button while using Notepad: Start block or exit

Also while using Notepad, you can move by lines by using mouse wheel button.

2.10 Global functions

You can use following hot key to check some information.

1) Check capacity of SD card: Space-S
   (But, not available when you are on the information, Braille display, Option, global function)
2) Check battery status: Space-P
3) Check firmware version: Space-F
4) Check Bluetooth status: Space-B
5) Check Date and Time: Space-T
6) Open option menu: Space-O
7) Open online Help: Space-H

Above Global functions are not available, when you are on the information, Braille display, Option menu, dialog box (only help menu is not available) and 7 Global functions.

3. Notepad

3.1 What is the Notepad?
(Please write it in detail)
- Braille display
- Support Notetaker functions

Note: Notepad is available only when SD card is inserted to the unit.
(When SD card is not inserted to the unit, 'SD card does not exist' message appears and close the Notepad.)
Notepad only support 'brl' and 'text' file type and computer Braille in both input Braille and view Braille.

3.2 Execute and Exit

Notepad is located on the first of the program menu.
Execute program: press right arrow button or press cursor routing key 2 times
Or you can press shortcut key, N (dots 1-3-4-5).

Exit: Space-z (dots 1-3-5-6) or Esc key.

3.3 Structure of Notepad

Braille EDGE 40 consists of 'File/folder list' and 'Document'.
When you execute 'Notepad', File/folder in SD card appears at first. To distinguish folder and file, folder name is in the double quotation marks.

The movement key in File/Folder list
1)Move to previous item: up navigation button or Space-1
2)Move to next item: down navigation button or Space-4
3)Move to the first item in current path: up navigation button-left navigation button or Space-1-3
4)Move to the last item in current path: down navigation button-right navigation button.
5)Enter folder or open file: right navigation button or Enter
6)Move to the upper folder: left navigation button or Backspace
7)Also you type the first character of the file/folder name to move to the file/folder.

The movement key in the menu item
1)Move to the previous menu: up navigation button or Space-1
2)Move to the next menu: down navigation button or Space-4
3)Move to the upper menu: left navigation button.
4)Enter/Execute menu: right navigation button and Enter
5)Close the menu: Esc key

1) Available menu in the File/Folder list. (When pressing ALT or space-1-3-4)
    (1) Read only
    (2) Recent File Only
    (3) Copy
    (4) Paste
    (5) Cut
    (6) Delete
    (7) New Folder

(8) New file
(9) Rename
(10)Find
(11)Select All
(12)Attribute
(13)Exit

2) Available menu in the document (When pressing ALT or space-1-3-4)
   (1) File menu
   (2) Edit menu
   (3) Tool menu
   (4) Insert menu

3.4 Open document

1. New document
   Move to the desired folder on the folder list and then press Ctrl-N (dots 1-3-4-5) or execute 'New file' under menu.
   'noname.br/noname.txt' file will be created and you are in front of the file.
2. Open document
   Press 'Ctrl-O' and then choose the desired file on the folder list and then right navigation button and press ENTER.
3. Open recent document (P)
   Press Ctrl-P (dots 1-2-3-4) on the file list or execute 'recent file open' under Menu.
   The file which you opened last time will be opened.
4. Open document with 'read only' mode (R)
   Press Ctrl-R (dots1-2-3-5) on the file list.
   The focused file will be opened with 'read only' mode and you cannot insert character or edit the file at all.

3.5 Save Document

1. Save
   Press Ctrl-S (dots 2-3-4) or execute 'save' under 'File' menu.
2. Save As
   Press Alt-S (dots 2-3-4) or execute 'Save As' under 'File' menu.
   You can change only file name not file type.

   Navigation button in the Document
   1) Move to next line: Space-1 or up navigation button.
   2) Move to previous line: Space-4 or down navigation button.
   3) Move to first line: Space-1-3
   4) Move to last line: Space-4-6
   5) Move to previous paragraph: Sapce-3 or Ctrl-up navigation button.
   6) Move to next paragraph: Space-6 or Ctrl-down navigation button.
   7) Move to previous page: Space-2-3 or Alt-up navigation button
   8) Move to next page: Space-5-6 or Alt-down navigation button
   9) Move to the home of the document: Space-1-2-3 or Ctrl-Alt-up navigation button
   10) Move to the end of document: Space-4-5-6 or Ctrl-Alt-down navigation button

Also you can move by using up/down navigation button.
On the file, choose the movement type (line, sentence, paragraph and page) with left/right

navigation button. After selecting the type, press up/down navigation button. You will move to some location according to what you selected.

Note: Movement by sentence is available only in the 'txt' document.

3.6 Edit Document

1. Select bock

   Move to the cursor where you want to start block.
   Press Ctrl-B (dots 1-2) or execute 'block' under 'Edit' menu.
   Move to the cursor when you want to finish block with navigation button.
   Select all: Ctrl-A

2. Copy and paste block

   Copy: Ctrl-C (dots 1-3)
   Paste: Ctrl-V (dots 1-2-3-6)

3. Cut block

   Ctrl-X (dots 1-3-4-6)

4. Delete

   Delete character before current cursor: Backspace
   Delete character on the current cursor: Alt-C (dots 1-3)
   Delete word on the current cursor: Alt-W (dots 2-4-5-6)
   Delete current line: Alt-L (dots 1-2-3)
   Delete block: Ctrl-D (dots 1-4-5)

5. Undo

   Press Ctrl-Z (dots 1-3-5-6)
   You can undo recent copy, cut, paste or delete function.

6. Insert date and time

   Insert-D: Insert today's date to document.
   Insert-T: Insert current time to document.

7. Insert calculation and result

   Before executing this function, you should type number and symbols of operation in the document. After that, if you press Insert-R (dots1-2-3-5), result of calculation will be inserted to document.

3.7 Find and Replace

1. Find (F)

   Press Ctrl-F (dots 1-2-4),

a. Text to find

   Type what you want to find in the document.

b. Search direction

   Choose the direction to find, forward or backward with Space/Backspace or cursor routing key. Default is 'forward'.
   Find the character again: Ctrl-Shift-F (dots 1-2-4)

2. Replace (R)

   Press Ctrl-R (dots 12-3-5)

a. Text to find

   Type what you want to find in the document.

b. Replace

   Type what you want to replace the searched word with.

c. Replace? Yes, no or all

   If you want to replace 1 times, press Y (dots 1-3-4-5-6)
   If you don't want to replace, press N (dots 1-3-4-5)
   If you want to replace all word, press A (dot 1)

Or you can press cursor routing key on what you want.

Note: 'Replace' function is available only forward direction.

3.8 Mark
1. Set Mark
   Press Ctrl-M (dots 1-3-4).
   You can set mark up to 10 marks.
2. Move Mark
   Press Ctrl-J (dots 2-4-5) and type the mark number and then press ENTER.
   Or press mark number with Ctrl.

3.9 Auto scroll
Press up scroll button and down scroll button at one time.
Cancel: Esc key

3.10 Setting
Press Ctrl-E (dots 1-5)
a. View format character: On/off
   Insert-C (dots 1-4)
b. Reading unit: line/sentence/paragraph/page
   Left navigation button, Right navigation button
   Default is line.
c. Read only: On/off
   Alt-R (dots 1-2-3-5)
d. Auto scroll speed:1~36
   Shift-left navigation button, Shift-navigation button
e. Document type: Braille/Text
   Default is Braille.
f. Block blink: On/off (This function makes the cursor between block blink or not)

3.11 Manage file/folder
Press Ctrl-O (dots 1-3-5) or press Alt and then press 'enter' on "File Browser" under 'File' menu.
You can open the file list without closing or exiting Notepad.
With this function, you can manage file/folder or open the document.

1. Copy file and folder (C)
   Ctrl-C (dots 1-3)
   You can copy the file/folder to clipboard.
2. Cut/Paste file and folder (X)
   Cut file and folder: Ctrl-X (dots 1-3-4-6)
   Move to the desired path to move the file.
   Paste file and folder: Ctrl-V (dots 1-2-3-6)
   You can copy the file/folder to clipboard.
3. Delete file and folder (D)
   Ctrl-D (dots 1-4-5)
4. Select block
   Select each file/folder: Space
   Select all file/folders: Ctrl-A

Cancel: Esc key
5. Create new folder
   Ctrl-F (dots 1-2-4)
   You can type the folder name and then press ENTER.
6. Rename file and folder (E)
   Ctrl-E (dots 1-5)
   You can type new name or move the cursor to where you want to edit and then type rest of name.
7. Find file and folder (S)
   Ctrl-S (dots-2-3-4)
   You can find the file/folder on the current path and sub folder with some part of file/folder name characters.

3.13 Attribute
Ctrl-I (dots 2-4)
You can check information of folder/file: size, date, time, protection status (write/read).

4. Braille Display

4.1 Available Screen Reader
1) Jaws (Freedom scientific)
2) Window eyes (GW micro)
3) Supernova (Dolphin)
4) Voice over (Apple)
5) Mobile speak (Code factory)
6) Talks and Zooms(Nuance)

4.2 Using USB cable/Bluetooth
You can choose either USB mode or Bluetooth mode.
If you want to connect Braille EDGE 40 with screen reader via Bluetooth mode, move Bluetooth switch to the rear.
Or if you want to connect Braille EDGE 40 with screen reader via USB cable, move Bluetooth switch to the front.

4.3 Execute and Close
Move to 'Braille display' on the main menu and pres ENTER.
Connect USB cable to the USB mini port.
Press 'b (dots 1-2) on the main menu.

When the Bluetooth switch is set to 'USB mode', Braille display mode automatically will be executed as soon as connecting USB cable to the mini port.
Even when Braille EDGE 40 is in the sleep mode, Braille EDGE 40 automatically will turn on and Braille display automatically will be executed as soon as connecting USB cable to the mini port.
Close: Space-z (dots 1-3-5-6).

4.4 How to pair with Screen reader
(The way to pair is same as Braille Sense PLUS so please describe it in detail)

4.4.1 Connect via USB port
(Please write in detail)

4.4.2 Connect via Bluetooth serial port
(Please write in detail)
4.4.3 Pair with IOS devices
(Please write in detail)
4.4.4 Command key in the VoiceOver
1) Space-dot 1: Move to previous item
2) Space-dot 4: Move to next item
3) Space-dot3 : Move to previous item by using rotor setting
4) Space-dot 6: Move to next item by using rotor setting
5) Space-dot 2: Select previous rotor setting
6) Space-dots 5-6: Select next rotor setting
7) Space-dots 1-2-3: Move to the first item in the area
8) Space-dots 4-5-6: Move to the last item in the ares
9) Space-dots 1-2-3-5: Read all from selected object
10) Space-dots 2-4-5-6: Read all from first object in selected area
11) Space- H(dots 1-2-5): Go to home screen
12) Space-S(dots 2-3-4): Move to status bar
13) Space-dots 3-4-5: Volume down on device
14) Space-dots 1-2-6: Volume on device
15) Space-B(dots1-2): Go Back, cancel, close pop-up
16) Space-dots 3-4: Speaks the current page number and position
17) Space-Backspace or Space-D(dots1-4-5): Delete/Backspace key
18) Space-Enter or Space-dots 1-5: Enter key
19) Space-T(dots 2-3-4-5): Tab key
20) Space-Y(dots 1-2-3-4-5-6): Toggle screen curtain on/off
21) Space-P(dots 1-2-3-4): Pause/Resume speech
22) Space -M(dots 1-3-4): Mute/ Unmute speech
23) Space -U(dots 2-4-6): Move screen/page to the left
24) Space -O(dots 1-3-5): Move screen/page to the right
25) Space - dots 2-3-5: Deselect text
26) Space- dots 2-5-6: Select text
27) Space- dot 2: Pan Braille left
28) Space- dot 5: Pan Braille right
29) Space - N(dots 1-3-4-5): Toggle announce history, Dot 1 or 4 to browse
30) Space - G(dots 1-2-4-5): Toggle Contracted Braille on/off

4.4.5 Help menu
If you press 'Space-K (dots 1-3), you can find the command key in the Voiceover while paring with VoiceOver.
To exit help menu, press 'Space-B(dots 1-2) on the Braille EDGE 40 or 'home' button on the i-device.

4.5 Command key in the Braille Display Mode
1) Backspace: Backspace or space-1-2
2) Delete: Space-1-4-5
3) Insert: F6
4) Alt: F4
5) Alt+[Character]:   F4-[Character]
6) Enter: Enter or Space-1-5
7) Ctrl: F3
8) Ctrl+[Character]:   F3-[Character]
9) Tab: F2
10) Shift-Tab: F2-F5
11) Ctrl-Tab: F2-F3

12) Ctrl-Shift-Tab: F2-F3-F5
13) Esc: F1
14) Shift-Esc: F1-F5
15) Ctrl-Shift-Esc: F1-F3-F5
16) Shift+[Character]: F5-[Character]
17) Caps Lock: Space-U(dots 1-3-6)
18) Up arrow: Up Navigation button or Space-1
19) Down arrow: Down Navigation button or Space-4
20) Left arrow: Left navigation button or Space-3
21) Right arrow: Right navigation button or Space-6
22) Ctrl-left arrow: Space-2
23) Ctrl-right arrow: Space-5
24) Page up: Space-2-3
25) Page down: Space-5-6
26) Ctrl-page up: Space-1-2-6
27) Ctrl-page down: Space-3-4-5
28) Home: Space-1-3
29) End: Space-4-6
30) Ctrl-Home: Space-1-2-3
31) Ctrl-End: Space-4-5-6
32) F1 ~ F12: Space-1~12th cursor routing key.
33) Win: F7
34) Pop up: F8
35) Win+[Character]: F7-[Character]
36) Pause key: Space-p(1-2-3-4)
37) Space: Space
38) Alt-F4: Space-1-3-4-6

5. Application

5.1 Calculator

Only computer Braille is available.

- View calculation result (=): Enter
- Type new calculation: Enter
- Plus: dots 3-4-6
- Minus: dots 3-6
- Multiply by: dots 1-6
- Divided by: dots 3-4
- Percent: dots 1-4-6
- Power: dots 4-5-7
- Decimal point: dots 4-6
- Left parenthesis: dots 1-2-3-5-6
- Right parenthesis: dots 2-3-4-5-6
- Reset all: Ctrl-A
- Save file: Ctrl-S
  : Default file name is 'Resul.txt' and changeable which is saved in root of SD card.
- Copy line: Ctrl-C
  : You can save calculation and result of current line to clipboard.
- Paste: Ctrl-V
  : You can paste what is saved in the clipboard to current line.
- Copy Result: Ctrl-R
  : You can save last calculation and result to clipboard.
- Review previous calculation and result: Up navigation button

: If you want to use previous calculation, press cursor routing key, locate what you want and edit the calculation.
- Close: ESC key

You can find above 5 Menu, 'Reset all' 'Ctrl-A Save file' 'Ctrl-S Copy line' 'Ctrl-C Paste' and 'Ctrl-V Copy Result' under menu by using ALT or Space-M (dots 1-3-4)

When you input negative number, you have to use left/right parenthesis and minus sign with number, for example (-2).
How to use % sign in calculator are followings.
Ex 1) When there are plus/minus signs before percent sign
90+20%:
As soon as you type percent (%) sign, number 20 will be turned to number 18, since 90 divided by 20% is 18. Finally, the result of calculation is 108 (90+18).

Ex 2) When there are multiple by/divided by signs before percent sign.
20*40%:
As soon as you type percent (%) sign, number 40 will be turned to number 0.4, since 40% means 0.4.

5.2 Alarm

(1) Set time
When you execute 'Alarm', you are located on the 'hour'.
Change time: press up/down navigation button or type the time directly.
Move between hour and minute: right/left navigation button.
Save setting: Enter

(2) Term
There are 3 options, once, weekdays, everyday and you can choose it with up/down navigation button.
- Save setting: Enter

(3) Duration
You can choose duration from 1 minute to 9 minutes and default is 5 minutes and you can choose it with up/down navigation button.
- Save setting: Enter

(4) Wake up call times
You can choose call times from 1 to 5 and default is 3 times and you can choose it with up/down navigation button.
- Save setting: Enter

(5) Repeat interval
You can choose interval from 1 minute to 9 minutes and default is 5 minutes and you can choose it with up/down navigation button.
- Save setting: Enter
- Cancel: ESC key

When alarm goes off with "Alarm stop?stop or Yes to all" message, how to stop the alarm is below.
If you want to stop 1 time of alarm, press ENTER. (Current cursor is located on the stop.)
If you want to all alarm times,
1) Move the cursor to the 'Yes to all' and press ENTER or routing cursor button 2 times.

2) Press space/backspace or Space-dot1/Space-dot24 to change cursor and then press ENTER

5.3 Date and Time
View 'date and time': Execute 'date and time' menu under 'Application' menu.

To set 'date and time' press Ctrl-S.
Move among hour/minute/date: right/left navigation button.
Choose time: press up/down navigation button or type the correct number.
- Save: Enter
- Cancel: ESC key

You can call up setting options menu with ALT key or Space-dots 1-3-4 in order to change 'date and time'. Move to the 'Option' with up/down navigation button and then press ETNER

Time zone: choose the option with space or type first character.
Use daylight saving (on/off): Choose the option with space.
Time format (12hours/24hours): Choose the option with space.
- Save: Enter
- Cancel: ESC key

5.4 Stop Watch
Start/Stop: Enter
    Ex) Start at 00:00:00
Pause: Space
Reset: Backspace

5.5 Count Down
Move among hour/minute/second: right/left navigation button.
Choose time: press up/down navigation button or type the correct number.
Start/Stop: Enter
Pause: Space
Reset: Backspace
Close: ESC key
When count-down gets zero, alarm goes off for10 seconds. Press anything to stop this alarm.

5.6 Scheduler
When you execute 'Scheduler', month, year, week and date appear.
Date starts from Sunday to Saturday and today's date is in brackets.
If you want to move other weeks, locate cursor to week and press up/down navigation button.
If some date has appointment, asterisk is displayed in front of the date.
If you want to check the appointment, press ENTER on the date.
Appointments are arranged in chronological order.

Scheduler contains 8 Menu which appear with ALT key or Space-dots 1-3-4.
Move among 8 Menu: up/down navigation button, Space-1/Space-4.
Move to the first Menu: up navigation button-left navigation button.
    Space-dots 1-3
Move to the last Menu: down navigation button-right navigation button.
            Space-dots 4-6
Execute Menu: Enter/Press cursor routing key 2 times.
                Type shortcut key

(1) View Calendar
When Scheduler program is opened, you can view calendar at first.

Move to the previous/next week: Up/down navigation button
Move to the previous/next month: Move the cursor to month and press up/down navigation button.
Move to the previous/next year: Move the cursor to month and press up/down navigation button.

If there are some appointments on the date, asterisk sign appears in front of the date.

(2) New appointment
　　　Move the cursor to desired date and then press Ctrl-N or ENTER.
a. Date
　　　Move the cursor to the month, date and year and press up/down navigation button or type the number directly in order to change the date. After that, press ENTER to move next item.
b. Time
　　　Choose the time with same way as Date.
c. Alarm Time
　　　You can choose up to 47:59.
　　　If you don't want alarm, choose "off" and if you want alarm, choose "00:00".
　　　Press ENTER to move next item.
d. Subject
　　　Type the subject of appointment up to 140 characters.
　　　Press ENTER to save all options or ESC key to cancel all options.

(3) Modify appointment
　　　Move the cursor to desired date and then press Ctrl-M or execute 'Modify appointment' under Menu.
　　　How to modify appointment is same as 'New appointment'.

(4) View All appointment
　　　Execute 'View All appointment' under Menu.
　　　While viewing appointment, also you can manage appointments.

(5) Search appointment
　　　Ctrl-F or execute 'Search appointment' under Menu.
　　　When 'Find:' dialog box appears, type what you want and press ENTER.

(6) Delete appointment
　　　Navigate cursor to the desired date and press Ctrl-D or execute 'Delete Appointment' under Menu.
　　　When prompt dialog box appears, press ENTER, Y or cursor routing key on 'Yes' character in the Braille cell.

　　　But if you don't want to delete appointment,
　　　　　1) Locate cursor to the 'No' and press ENTER.
　　　　　2) Press N.
　　　　　3) Press Space or Backspace and then ENTER.

(7) Copy appointment
　　　Navigate cursor to the specific date which you want to copy and press Ctrl-C.
　　　You can paste copied appointment in clipboard to Notepad with Ctrl-V.

(8) Backup appointment
Ctrl-B
Backup file will be saved in the database folder of SD card.

(9) Restore appointment
Ctrl-R

6. Option

Navigating key: Space-4/Space-1, up/down navigation button, up/down scroll button
Change the setting: Space/Backspace
Save the option: Enter
Cancel: ESC

Followings are options which you can set up.

- **Edit dot mode**: On/Off
- **Show File attributes:** On/Off
- **Startup Mode:** Main menu/New file/Recent file/ Braille display/Calculator
  You can choose which program/menu is executed when turning on Braille EDGE 40.
- **Play Sound:** On/Off
- **View Message Grade:** Contracted/Uncontracted/Computer Braille
- **Braille Tables:** Spanish/French/Germany/Italian/English/UK
  You can choose which Braille table is used when opening .brl file in the Notepad. Default is English.
- **Message Display Time:** Ignore/1sec/2sec/3sec/4sec/5sec/Stand by
  When you choose 'stand by' option, all message used in the Braille EDGE 40 remains until you press anything.
- **Power Saving Mode:** On/Off
  You can choose whether Braille EDGE 40 in sleep mode after 10 minutes. Default is 'On'.
- **View file lists:** On/off
  You can choose which file type can be displayed on the file list of Notepad. With this option, you can view other file type which cannot be opened on the Braille EDGE 40 such as doc and docx.
- **Backup/restore:** Backup/restore/initialize

7. Information

You can check 4 items.
: SD card memory (total memory, free space)
Power status (battery level, power type (adapter/battery))
Firmware version (Version number, build date)
Bluetooth (Bluetooth name, pin code)

Among 4 items, you can navigate with up/down Navigation button and Space-1/Space-4.

8. Command Summary

Common
Move to the next item: down navigation button or Space-4

Move to the previous item: up navigation button or Space-1
Move to the first item: up navigation button-left navigation button or Space-1-3
Move to the last item: down navigation button-right navigation button or Space-4-6
Move to next 40 item: Alt-up navigation button or Space-1-2-6
Move to previous 40 item: Alt-down navigation button or Space-3-4-5
Execute program: Enter or right navigation button or cursor routing key 2 times
Enter sub folder: Enter or right navigation button or cursor routing key 2 times
Cancel: Esc key or left navigation button
Exit: Space-z (dots 1-3-5-6) or Esc key.
Enter folder or open file: right navigation button or Enter
Move to the upper folder: left navigation button or Backspace
Call up the menu: Space-1-2-4 or Alt

Notepad
Open new document: Ctrl-N (dots 1-3-4-5)
Open recent document: Ctrl-P (dots 1-2-3-4)
Open document with 'read only' mode: Ctrl-R (dots1-2-3-5)
Move to next line: Space-1 or up navigation button.
Move to previous line: Space-4 or down navigation button.
Move to first line: Space-1-3
Move to last line: Space-4-6
Move to previous paragraph: Sapce-3 or Ctrl-up navigation button.
Move to next paragraph: Space-6 or Ctrl-down navigation button.
Move to previous page: Space-2-3 or Alt-up navigation button
Move to next page: Space-5-6 or Alt-down navigation button
Move to the home of the document: Space-1-2-3 or Ctrl-Alt-up navigation button
Move to the end of document: Space-4-5-6 or Ctrl-Alt-down navigation button
Select block: Ctrl-B (dots 1-2)
Select all: Ctrl-A
Cut block
Ctrl-X (dots 1-3-4-6)
Copy: Ctrl-C (dots 1-3)
Paste: Ctrl-V (dots 1-2-3-6)
Delete character on the current cursor: Alt-C (dots 1-3)
Delete word on the current cursor: Alt-W (dots 2-4-5-6)
Delete current line: Alt-L (dots 1-2-3)
Delete block: Ctrl-D (dots 1-4-5)
Undo: Ctrl-Z (dots 1-3-5-6)
Insert-D: Insert today's date
Insert-T: Insert current time
Insert calculation and result: Insert-R (dots1-2-3-5),
Find: Ctrl-F (dots 1-2-4),
Find the character again: Ctrl-Shift-F (dots 1-2-4)
Replace: Ctrl-R (dots 12-3-5)
Set Mark: Ctrl-M (dots 1-3-4).
Move Mark: Ctrl-J (dots 2-4-5)
Auto scroll: up scroll button-down scroll button
View format character: Insert-C (dots 1-4)

Read only: Alt-R (dots 1-2-3-5)
Auto scroll speed: Shift-left navigation button or Shift-navigation button
Copy file and folder: Ctrl-C (dots 1-3)
Cut file/folder: Ctrl-X (dots 1-3-4-6)
Paste file/folder: Ctrl-V (dots 1-2-3-6)
Delete file/folder: Ctrl-D (dots 1-4-5)
Select all file/folders: Ctrl-A
Create new folder: Ctrl-F (dots 1-2-4)
Rename file/folder: Ctrl-E (dots 1-5)
Find file/folder: Ctrl-S (dots-2-3-4)
Attribute: Ctrl-I (dots 2-4)

Braille Display
Backspace: Backspace or space-1-2
Delete: Space-1-4-5
Insert: F6
Alt: F4
Alt+[Character]:　F4-[Character]
Enter: Enter or Space-1-5
Ctrl: F3
Ctrl+[Character]:　F3-[Character]
Tab: F2
Shift-Tab: F2-F5
Ctrl-Tab: F2-F3
Ctrl-Shift-Tab: F2-F3-F5
Esc: F1
Shift-Esc: F1-F5
Ctrl-Shift-Esc: F1-F3-F5
Shift+[Character]: F5-[Character]
Caps Lock: Space-U(dots 1-3-6)
Up arrow: Up Navigation button or Space-1
Down arrow: Down Navigation button or Space-4
Left arrow: Left navigation button or Space-3
Right arrow: Right navigation button or Space-6
Ctrl-left arrow: Space-2
Ctrl-right arrow: Space-5
Page up: Space-2-3
Page down: Space-5-6
Ctrl-page up: Space-1-2-6
Ctrl-page down: Space-3-4-5
Home: Space-1-3
End: Space-4-6
Ctrl-Home: Space-1-2-3
Ctrl-End: Space-4-5-6
F1 ~ F12: Space-1~12th cursor routing key.
Win: F7
Pop up: F8
Win+[Character]: F7-[Character]

Pause key: Space-p(1-2-3-4)
Space: Space
Alt-F4: Space-1-3-4-6

Application
1) Calculator
View calculation result (=): Enter
Type new calculation: Enter
Plus: dots 3-4-6
Minus: dots 3-6
Multiply by: dots 1-6
Divided by: dots 3-4
Percent: dots 1-4-6
Power: dots 4-5-7
Decimal point: dots 4-6
Left parenthesis: dots 1-2-3-5-6
Right parenthesis: dots 2-3-4-5-6
Reset all: Ctrl-A
Save file: Ctrl-S
Copy line: Ctrl-C
Paste: Ctrl-V
Copy Result: Ctrl-R
Review previous calculation and result: Up navigation button

2) Stop Watch
Start/Stop: Enter
Pause: Space
Reset: Backspace

3) Count Down
Start/Stop: Enter
Pause: Space
Reset: Backspace
Close: ESC key