**1. Input Mode**

A. Overview

* + - * 1. You can input braille, letters (printed text), numbers, and symbols.
				2. If the letters you typed by using SMARTIO are not inputted in your smartphone properly : pressing **L2 key + Mode button** for more than 3 seconds to synchronize the language settings of your smartphone and SMARTIO.
				3. Press Mode button to toggle between Navigation Mode and Input Mode.

B. Braille Input Mode

1. How to Hold SMARTIO

You should hold SMARTIO facing the back of your keypad and Volume down button will be right on the top of the device.

1. Braille keys
* N3 : Dot 1 (left index finger)
* N6 : Dot 2 (left middle finger)
* N9 : Dot 3 (left ring finger)
* N1 : Dot 4 (right index finger)
* N4 : Dot 5 (right middle finger)
* N7 : Dot 6 (right ring finger)

3. Function keys

* L1 : Esc key
* L2 : Language Selection key
* L3 : null
* L4 : Symbol input key
* R1 : Backspace key
* R2 : Space key
* R3 : Enter key
* R4 : null
* N2 : Left arrow key
* N5 : Right arrow key
* N8 : Up arrow key
* N10 : Space key
* N11 : Down arrow key
* N12 : Backspace key

4. Braille Mode: Type braille by using six fingers in the same way you do with the Perkins braille notetaker.

Switching languages: If you press L2 key, Arabic is toggled with English and selected.

Symbol Input: Press L4 key to switch to Symbol input and type in symbols.

Returning to Braille Mode: Press L4 key again to switch from Symbol input mode to Braille Mode.

5. Editing Braille Text

* Go forward one character : N5
* Go back one character : N2
* Go forward one word : R4+N5
* Go back one word : R4+N2
* Go up one line : N8
* Go down one line : N11
* Go to the beginning of a line : L3+N2
* Go to the end of a line : L3+N5
* Go to the beginning of the paragraph : R4+N8
* Go to the end of the paragraph : R4+N11
* Go to the previous paragraph : R4+N8
* Go to the next paragraph : R4+N11
* Go to the top of the text field : L3+N8
* Go to the bottom of the text field : L3+N11
* Select text as you move : L4 + a command to move the cursor on characters, words, or lines.
* Select all text : L3+N10
* Copy selected text : L3+R1
* Cut selected text : L3+R2
* Paste selected text : L3+R3
* Undo last change : L3+N12
* Redo last change : L3+L4+N12

C. Typing for printed text

1. How to Hold SMARTIO

Hold SMARTIO facing the keypad and Volume down button will be left on the top of the device.

2. The Key Arrangement for Print Mode

Function keys

* L1 : Esc key
* L2 : Language Selection key
* L3 : Number/symbol selection key
* L4 : Shift key
* R1 : Backspace key
* R2 : Space key
* R3 : Enter key
* R4 : null
* N2 : Up arrow key
* N4 : Left arrow key
* N5 : Down arrow key
* N6 : Right arrow key

Key arrangement for each language

Arabic: Keys for Arabic are arranged based on the FAST Arabic System.

You can combine Arabic using N1 key to N3 key.

two Arabic consonants are allocated in each keypad from N4 key to N12 key from right to left.

* N1 : Nocta below (Reserved name by FAST System)
* N2 : Triple Nocta up (Reserved name by FAST System)
* N3 : Nocta up (Reserved name by FAST System)
* N4 : Dal, Ra
* N5 : Ta, Ha
* N6 : Alif, Hamzah
* N7 : Fa, Kaf
* N8 : Ta, Ayn
* N9 : Sin, Sad
* N10 : Waw, Alif maqsorah
* N11 : Nun, Ha
* N12 : Lam, Mim

English: The arrangement is the same as the T9 keypad.

* N1 : null
* N2 : a, b, c
* N3 : d, e, f
* N4 : g, h, i
* N5 : j, k, l
* N6 : m, n, o
* N7 : p, q, r, s
* N8 : t, u, v
* N9 : w, x, y, z
* N10 : Asterisk ( **\*** ), comma ( **,** ) Press L4+N10 for a comma.
* N11 : At sign ( **@** )
* N12 : Pound sign ( **#** ), period ( . ) Press L4+N12 for a period.

3. How to type alphabet for each language

i. Arabic: MoreDream’s FAST System keyboard was used.

* Alif ( ا ) : N6
* Ba ( ب ) : N5,N1
* Ta ( ت ) : N5
* Tha ( ث ) : N5,N2
* jim ( ج ) : N5,N5,N1
* Ha ( ح ) : N5,N5
* Kha ( خ ) : N5,N5,N3
* Dal ( د ) : N4
* Dhal ( ذ ) : N4,N3
* Ra ( ر ) : N4,N4
* Zay ( ز ) : N4,N4,N3
* Sin ( س ) : N9
* Shin ( ش ) : N9,N2
* Sad ( ص ) : N9,N9
* Dad ( ض ) : N9,N9,N3
* Ta ( ط ) : N8
* Za ( ظ ) : N8,N3
* Ayn ( ع ) : N8,N8
* Ghayn ( غ ) : N8,N8,N3
* Fa ( ف ) : N7
* Qaf ( ق ) : N7,N3
* Kaf ( ك ) : N7,N7
* Lam ( ل ) : N12
* Mim ( م ) : N12,N12
* Nun ( ن ) : N11
* Ha ( ه ) : N11, N11
* Waw ( و ) : N10
* Ya ( ي ) : N10,N10,N1
* Hamzah ( ء ) : N6,N6
* Alif hamzah olwyah ( أ ) : N6,N3
* Alif hamzah soflyah ( إ ) : N6,N1
* Alif madah ( آ ) : N6,N3,N3
* Tamarbuta ( ة ) : N11,N11,N3
* Alif maqsorah ( ى ) : N10,N10
* Ya hamzah ( ئ ) : N10,N10,N3
* Waw hamzah ( ؤ ) : N10,N3

ii. English: Press L4 key (Shift) for capital letters.

* a : N2
* b : N2, N2
* c : N2, N2, N2
* d : N3
* e : N3, N3
* f : N3, N3, N3
* g : N4
* h : N4, N4
* I : N4, N4, N4
* J : N5
* k : N5, N5
* l : N5, N5, N5
* m : N6
* n : N6, N6
* o : N6, N6, N6
* p : N7
* q : N7, N7
* r : N7, N7, N7
* s : N7, N7, N7, N7
* t : N8
* u : N8, N8
* v : N8, N8, N8
* w : N9
* x : N9, N9
* y : N9, N9, N9
* z : N9, N9, N9, N9

4. Editing Text: Compatible with VoiceOver text editing.

* Go forward one character : R4+N6
* Go back one character : R4+N4
* Go forward one word : L1+N6
* Go back one word : L1+N4
* Go up one line : R4+N2
* Go down one line : R4+N5
* Go to the beginning of a line : L3+N4
* Go to the end of a line : L3+N6
* Go to the beginning of a paragraph : L1+N2
* Go to the end of a paragraph : L1+N5
* Go to the previous paragraph : L1+N2
* Go to the next paragraph : L1+N5
* Go to the top of the text field : L3+N2
* Go to the bottom of the text field : L3+N5
* Select text as you move : L4 + a command to move the cursor on characters, words, or lines.
* Select all text : L3+N1
* Copy selected text : L3+N9
* Cut selected text : L3+N8
* Paste selected text : L3+R3
* Undo a last change : L3+N7
* Redo last change : L4+L3+N7

D. Number and Symbol Input

1. Number and Symbol Input

Press L3 key to toggle between number and symbol.

Press L1 key to return to the language input mode.

Number Input: The number and symbol keys are assigned as the same as in the QWERTY keyboard. To type a symbol on the right of a key, press L4 key (Shift) and then the keys you want accordingly.

* N1 : 1, exclamation mark ( **!** )star
* N2 : 2, At sign ( **@** )
* N3 : 3, pound sign ( **#** )
* N4 : 4, dollar sign ( **$** )
* N5 : 5, percent sign ( **%** )
* N6 : 6, caret ( **^** )
* N7 : 7, ampersand ( **&** )
* N8 : 8, asterisk ( **\*** )
* N9 : 9, left parenthesis ( **(** )
* N10 : Asterisk ( \* ), underscore ( **\_** )
* N11 : 0, right parenthesis ( **)** )
* N12 : Pound sign ( # ), plus sign ( **+** )

Symbol Input: You can type additional symbols assigned in the QWERTY keyboard except the number keys. To type a symbol on the right of a key, press L4 key (Shift) and the keys you want accordingly.

* N1 : Grave accent ( **`** ), null
* N2 : Minus sign ( **-** ), underscore ( **\_** )
* N3 : Equals sign ( **=** ), plus sign ( **+** )
* N4 : left bracket ( **[** ) , left brace ( **{** )
* N5 : Right bracket ( **]** ), Right brace ( **}** )
* N6 : Backlash ( **＼** ), vertical bar ( **|** )
* N7 : null
* N8 : Semicolon ( **؛** ), colon ( **:** )
* N9 : Apostrophe (**‘** ), quotation mark ( **“** )
* N10 : Comma ( ،), less than sign ( **<** )
* N11 : Period ( **.** ), greater than ( **>** )
* N12 : Slash ( **/** ), question mark ( **؟** )

**2. Navigation Mode**

A. How to Hold SMARTIO: Hold the SMARTIO facing the keypad with the Power button the on the bottom of the device.

* + - 1. Your SMARTIO and smartphone (keyboard) should be synchronized in English.
			2. Navigation Mode Command: Compatible with VoiceOver of IOS.
* Turn on VoiceOver Help : L2 + R3
* Turn off VoiceOver Help : L1
* Select the next item : L2 + N6
* Select the previous item : L2 + N4
* Activate the selected item : L2 + R2
* Go to the Home screen : L2 + N9
* Touch and hold the selected item : L2 +L4 + N11
* Move to the status bar : L2 + N11
* Read from the current position : L2 + N1
* Read from the top : L2 + N3
* Pause or resume reading : N10
* Copy the last spoken text to the clipboard : L2 + L4 + N9
* Search for text : L2 + N8
* Mute or unmute VoiceOver : L2 + N7
* Open the notifications screen : L1 + L2 + N2
* Open Control Center : L1 + L2 + N5
* Open the item selection screen : L2 + R1
* Change the label of the selected item : L2 + R4
* Double tap with two fingers : L2 + N12
* Swipe up : L2 + N2
* Swipe down : L2 + N5
* Adjust the rotor : L2 + L3 + N4 or L2 + L3 + N6
* Adjust the rotor option : L2 + L3 + N2 or L2 + L3 + N5
* Turn the screen curtain on or off : L2 + L4 + N3
* Return to the previous screen : L1
* Open the app switcher : L2 +N9 +N9 (press twice)

-delete the app : L2+N2 and L2+R2

* Open Search : L2+N2

\* Command for Quick Search Mode

* Turn on and off Quick Search : N4+N6
* Select the next item : N6
* Select the previous item : N4
* Select the next item specified by the rotor : N2
* Select the previous item specified by the rotor : N5
* Select the first item : N10 + N2
* Select the last item : N10 + N5
* Tap an item : N2 + N5
* Scroll up : L1 + N2
* Scroll down : L1 + N5
* Scroll left : L1 + N4
* Scroll right : L1 + N6
* Adjust the rotor : N2+N4, N2+N6

**3. Browser Mode**

A. Overview

You can press and hold N12 key more than 3 seconds in Navigation Mode to switch to Browser Mode. Then, use the command below for Safari.

\* Your SMARTIO and smartphone (keyboard) should be synchronized in English.

* Open the Quick Search with one key: L2+R4
* Select the next item : L2+N6
* Select the previous item : L2+N4
* Select the next item specified by the rotor : L2+N2
* Select the previous item specified by the rotor : L2+N5
* Adjust the rotor : L2+N2+N4/N6
* Tap an item : L2+N2+N5
* Heading : N5
* Previous Heading : L4+N5
* Link : N6
* Previous Link : L4+N6
* Text field : N1
* Previous Text field : L4+N1
* Button : N8
* Previous Button : L4+N8
* Form control : N7
* Previous Form control : L4+N7
* Image : N3
* Previous Image : L4+N3
* Table : N2
* Previous Table : L4+N2
* Static text : N4
* Previous Static text : L4+N4
* Aria landmark : L1
* Previous ARIA landmark : L4+L1
* List : L3
* Previous List : L4+L3
* Items of the same type : N9
* Previous Items of the same type : L4+N9
* Level 1 heading : N10
* Previous Level 1 heading : L4+N10
* Level 2 heading : N11
* Previous Level 2 heading : L4+N11
* Level 3 heading : N12
* Previous Level 3 heading : L4+N12
* Level 4 heading : R3
* Previous Level 4 heading : L4+R3
* Level 5 heading : R2
* Previous Level 5 heading : L4+R2
* Level 6 heading : R1
* Previous Level 6 heading : L4+R1