Rivo 2.0 manual
Last updated on March 24, 2018

Table of Contents

1. Appearance
1.1. The size of Rivo is 94mm wide, 52mm high, 12mm thick, and weighs 55g.
1.2. There are 20 buttons on the front arranged in 4 rows and 5 columns. Button 5 in the middle has a small bump on it.
1.3. Microphone is on the front left behind three tiny holes arranged vertically.
1.4. Speaker is on the front right behind a hollow vertical bar.
1.5. There are three small buttons on the top side; the one on the left is the Power button, and the two buttons on the right are the Keyboard button and the Audio button from left to right.
1.6. On the bottom side, there are strap holes, micro USB port, reset button hole, and earphone hole from left to right.

2. Orientation and Button names
2.1. Rivo can be used either in the horizontal or in the vertical orientation depending on the setting.
2.2. The horizontal orientation is the default, and even if Rivo is set in the vertical orientation, it will reset to the horizontal orientation when turned on.
2.3. The USB port is facing downwards in the horizontal orientation, and facing right in the vertical orientation.
2.4. The horizontal orientation is assumed throughout the manual except one section, 18. Vertical orientation, where the vertical orientation is introduced.
2.5. In the horizontal orientation, buttons in Rivo are arranged in 4 rows and 5 columns.
2.6. Buttons in the leftmost column are L1, L2, L3, and L4 from top to bottom.
2.7. Buttons in the rightmost column are R1, R2, R3, and R4.
2.8. Buttons in the middle three columns are B1 through B9, B*, B0, and B# arranged just like telephone keypad.
2.9. The buttons on top side are POWER, KEYBOARD, and AUDIO from left to right, which correspond to the Power, the Keyboard, and the Audio buttons.
2.10. On the front, the microphone is left to L2 and L3 in the leftmost column, and the speaker is right to R2 and R3 in the rightmost column.
2.11. On the top side, POWER is above L1, KEYBOARD is above B3, and AUDIO is above R1.
2.12. On the bottom side, USB port is below B0, and earphone hole is below B# and R4.
2.13. In the vertical orientation, buttons in Rivo are arranged in 5 rows and 4 columns.
2.14. Buttons in the top row are T1, T2, T3 and T4 from left to right.
2.15. Buttons in the right column below T4 are D1, D2, D3 and D4 from top to bottom.
2.16. The other buttons are B1 through B9, B*, B0 and B# arranged just like telephone keypad.
2.17. Note that only B5 is physically the same in the horizontal and the vertical orientations.
2.18. On the front, the speaker is above T2 and T3 in the top row, and the microphone is below B0 and B# in the bottom row.
2.19. On the left side, AUDIO is next to T1, KEYBOARD is next to B1 and POWER is next to B*.
2.20. On the right side, earphone hole is next to T4 and D1, and USB port is next to D2.

3. Command notation
3.1. Pressing a button is denoted by its button name for brevity. For example, B1 stands for pressing the button B1.
3.2. A sequence of button names separated by comma denotes pressing the corresponding buttons successively as in the sequence. For example, B1, B2 stands for pressing the button B1, followed by pressing the button B2.
3.3. A plus sign after a button name denotes a combination of buttons. For example, L1 + B1 stands for holding down the button L1, and then pressing the button B1.
3.4. A plus sign after a button name followed by a sequence of button names separated by comma denotes holding down the first button before the plus sign, pressing the other buttons successively as in the sequence, and then releasing the first button. For example, L1 + B1, B2 stands for holding down the button L1, and then pressing the buttons B1 and B2 successively, and then releasing L1.
3.5. When it's not ambiguous, the twelve buttons in the middle will be denoted without the leading letter B from their names. For example, 1 stands for pressing the button B1, * for pressing the button B*, and # for pressing the button B#.

3.6. For clarity in the manual, the leading letter B could be changed to H when Rivo is in the horizontal orientation and V in the vertical orientation. For example, H1 and V1 stands for B1 when Rivo is in the horizontal and in the vertical orientation, respectively.

4. Charging the Battery
4.1. Rivo is charged with a micro USB cable. It takes about 3 hours for full charge, and can be used for more than 15 days when only the keyboard is used. Using the audio or the phone function will shorten this time.
4.2. When Rivo is plugged to charge, there is a vibration and the red LED is turned on, which changes to GREEN with a vibration when fully charged.
4.3. To check the battery level, press POWER and KEYBOARD simultaneously. The number of short vibrations tells the battery level in 5 levels with 5 vibrations for full and 1 vibration for empty.
4.4. When the battery level is too low, Rivo turns off automatically.

5. Turning on iPhone VoiceOver
5.1. Turn the iPhone VoiceOver at Settings, General, Accessibility, VoiceOver. Later you may try adjusting advanced VoiceOver options here.
5.2. If you select the following option, VoiceOver can be turned on or off just by quickly pressing the iPhone home button triple times: Settings, General, Accessibility, Accessibility Shortcut, VoiceOver.

6. Keyboard mode, Audio mode
6.1. To use Rivo while hearing sounds through iPhone speaker, press KEYBOARD to set to the Keyboard mode. There is a short vibration.
6.2. To use Rivo while hearing sounds through Rivo speaker, press AUDIO to set to the Audio mode. There is a short vibration.
6.3. Rivo always starts in the Keyboard mode when turned on.

7. Power, Lock, Connect/Disconnect
7.1. If you hold down POWER until there is a vibration, Rivo is turned on or off. There is one long vibration when turned on, and two vibrations when turned off.
7.2. If you hold down KEYBOARD until there are two short vibrations, Rivo is disconnected from iPhone and 20 buttons on the front get locked and will not function until unlocked.
7.3. If you press KEYBOARD shortly, Rivo connects to iPhone again and buttons get unlocked. There is a short vibration.
7.4. If you hold down AUDIO until there is a vibrations, Rivo is set to the Audio mode and 20 buttons on the front get locked and will not function until unlocked.
7.5. If you press AUDIO shortly, buttons get unlocked and there is a short vibration.
7.6. If you press POWER shortly, there are one, two, or three short vibrations depending on the current status of Rivo. If there is one vibration, it is either the Keyboard or the Audio mode. If there are two vibrations, it is disconnected and front buttons are locked. If there are three vibrations, front buttons are locked in the Audio mode.

8. Bluetooth Pairing, Connection, Devices
8.1. Turn on the iPhone Bluetooth at Settings, Bluetooth.
8.2. To pair the iPhone and the Rivo, Rivo needs to be in the pairing mode. If Rivo has never been paired previously, it is automatically put into the pairing mode when turned on, and there are three short vibrations and the blue LED blinks. Otherwise, press L3 + 0, # to put Rivo into the pairing mode.
8.3. After a while, "Rivo 2" will appear in OTHER DEVICES section on the screen at iPhone Settings, Bluetooth.
8.4. Select and double tap the item to connect.
8.5. If "Rivo Connected" appears in MY DEVICES section on the screen, the Bluetooth pairing between Rivo and iPhone has been successful, and the Bluetooth connection has been made automatically.
8.6. Whenever Rivo is turned on, it automatically tries to connect to the last device with successful connection.
8.7. Managing Bluetooth devices in Rivo starts with L3 + 0 as in the followings.

8.8. To save the current device as device n, press L3 + 0, n, R3, where n can range from 1 to 6. For example, L3 + 0, 1, R3 saves the current device as device 1.

8.9. There are no duplicate devices in Rivo. That is, if you save a device already saved again as a different device, the device is saved only as a new device.

8.10. To remove the device n saved in Rivo, press L3 + 0, n, R1. For example, L3 + 0, 1, R1 removes device 1.

8.11. To disconnect, or to cancel the undergoing request to connect, press L3 + 0, *.

8.12. To connect to device n, press L3 + 0, * to disconnect first, and then press L3 + 0, n. For example, L3 + 0, 1 connects to device 1.

8.13. To connect to the last device again, press L3 + 0, 0. Device 0 is always treated as the last device in Rivo.

8.14. To put Rivo into the pairing mode, press L3 + 0, #. There are three short vibrations and the blue LED blinks.

8.15. Any changes in Rivo settings are saved automatically together with the device connection information.

9. Quick Navigation setting in iPhone

9.1. The quick navigation setting of the iPhone needs to be turned on for Rivo to operate properly. If it is turned off, some commands may not work.

9.2. To toggle the quick navigation setting, press R1 + 1.

9.3. When you activate a text field by pressing 5 to start typing some text in, iPhone turns the quick navigation off, but when you navigate out of the text field, iPhone will turn it on again automatically.

10. Navigation mode and Navigation shortcuts

10.1. To set Rivo into the Navigation mode, press R4. This is the default mode when Rivo is turned on.

10.2. To select the previous or the next item on the screen, press 4 or 6.

10.3. To select the previous or the next container, press L1 + 4 or L1 + 6.

10.4. To select the first or the last item on the screen, press 1 or 7.

10.5. To scroll the page up or down, press 3 or 9.

10.6. To scroll the page left or right, press L2 or R2.

10.7. To activate the current item, press 5.

10.8. To force touch the current item, press L1 + 5.

10.9. To press the iPhone home button, press 0.

10.10. Siri can be activated by holding down 0 for a second and waiting for iPhone beep sound.

10.11. To switch between the earphone mic and the Rivo mic for Siri, press * + L3. There is a vibration when Rivo mic is selected.

10.12. Siri can be deactivated by pressing 0 shortly.

10.13. To open the app switcher, press 0 twice quickly.

10.14. To close an app from the app switcher, press 9 after selecting the app to close.

10.15. To close the app switcher, press 0. iPhone returns to the previous app if it has not been closed already; otherwise, iPhone returns to the home screen.

10.16. To start or stop VoiceOver, press 0 triple times quickly. For this, you need to select the VoiceOver item in Settings, General, Accessibility, Accessibility Shortcut.

10.17. To select the next or the previous rotor, press #, or L1 + #. You may press * instead of L1 + # right after #.

10.18. To increase or decrease the value of the current rotor, press 2 or 8.

10.19. To select the previous or the next value of the current rotor, press 2 or 8.

10.20. To go back to previous menu or close a pop-up, press *.

10.21. To read the status bar, press L1. Then, use 4 or 6 to navigate further.

10.22. To leave the status bar and return to where you have left, press L1.

10.23. To open the notification center, press L1, 3.

10.24. To open the control center, press L1, 9.

10.25. To close either the notification center or the control center, press *.

10.26. To read items successively starting from the current one, press R1.

10.27. To pause or resume reading items, press R3. When Rivo is not in the Navigation mode, press L1 + R3.

10.28. To search in the iPhone, press L1 + 3 for the spotlight search textbox, or just press 3 in the home screen.

10.29. To lock or unlock the iPhone screen, press L1 + R4.

10.30. To start or stop the current media, press L1 + R1, R1. When playing the music or video, it plays or pauses whatever is the current media.

10.31. To receive an incoming call from the iPhone or end the current call, press L1 + R1, R1. That is, when there is an incoming call or while in a phone call, the phone call is the current media.

10.32. To touch and hold the current item, press L1 + R1, 8.

10.33. To open the item chooser of the current screen, press L1 + R1, 6.

10.34. To edit the label of the current item, press L1 + R1, 1. If you delete the whole text of the label, the default label of the item is restored.

10.35. To search in the current screen, press L1 + R1, 7. Change Rivo into a text typing mode and type a search text. After typing, be sure to press R3 to type an enter followed by R4 to return to the Navigation mode. If you press R4 without typing a text, the search is cancelled.

10.36. To navigate in the search result, press L1 + 7 for the previous match, and press L1 + 9 for the next match.

10.37. To toggle the quick navigation setting, press R1 + 1.

10.38. To read the current line, press R1 + 2.

10.39. To read the description of the current item, press R1 + 5.

10.40. To read the item wholly, letter-by-letter, or verbosely, press R1 + 8.

10.41. To toggle VoiceOver speech, press R1 + R3.

10.42. To toggle the screen curtain, press R1 + R4.

10.43. To copy the last speech to the clipboard, press R1 + 7.

10.44. To toggle iPad dock, press R1 + 0.

10.45. To access the VoiceOver page in the iPhone Settings, press R1 + L1, 7. That is, it opens iPhone Settings, General, Accessibility, VoiceOver.

10.46. To turn on the VoiceOver help, press R1 + L1, *. To turn it off, press *.

10.47. Note that navigation commands in the form of L1 + X, or R1 + X work even when Rivo is not in the Navigation mode.

11. Media shortcuts and Media mode

11.1. To play or pause music, press * + 5.

11.2. To increase or decrease the audio volume, press * + 2, or * + 8.

11.3. While an earphone is plugged in, press * + #, or * + 0 to increase or decrease only the Rivo earphone volume without changing the iPhone volume.

11.4. To mute the audio, press * + 9.

11.5. To skip to the previous or the next track, press * + 4, or * + 6.

11.6. To rewind or fast forward the track, press and hold down * + 4, or * + 6.

11.7. To set Rivo into the Media mode, press L3 + *. In the Media mode, you don't need to hold down * in the above media shortcuts.

12. Phone mode

12.1. To set Rivo into the Phone mode, press KEYBOARD and AUDIO simultaneously. Or you may press POWER and AUDIO simultaneously. In the Phone mode, Rivo works only in the vertical orientation, which is set automatically.

12.2. To receive the first incoming call, press T1.

12.3. To receive the second incoming call, press T1.

12.4. To switch between the first call and the second call, press T1.

12.5. To end the current call, press T4.

12.6. To end the first call and receive the second incoming call, press T4.

12.7. To reject the first incoming call, press T4.

12.8. To reject the second incoming call, press D4 + T4.

12.9. To dial DTMF touch tones, press the corresponding number buttons while in a call.

12.10. To enter a phone number to call, press corresponding number buttons. The maximum length of a phone number is 20 digits.

12.11. To delete the last digit entered one by one, press T4.

12.12. To clear the whole number entered, press D4 + T4.

12.13. To call a phone number, enter the phone number, and press T1.

12.14. To place the last outgoing call again, press T1.

12.15. To toggle the speakerphone, press T2. When the spearkerphone is turned on, there is a vibration.

12.16. To mute the mic while in a call, press T3. When the mic is muted, there is a vibration.

12.17. To transfer audio between Rivo and iPhone during a phone call, press D3 + 0.

12.18. To increase or decrease volumes in the Phone mode, press D1 or D2. You may control volumes for call, ringtone, ringback tone, and earphone.

12.19. To set Rivo to vibrate and play ringtone on a phone call, press D3 + D4.

12.20. To set Rivo to play ringtone on a phone call, press D3 + D4, D4.

12.21. To mute the ringtone or vibration, press D3 + 4, or D3 + 6.

12.22. To use the iPhone with VoiceOver during a phone call, press AUDIO to set Rivo into the Audio mode.

12.23. To switch between the earphone mic and the Rivo mic, press D3 + #. There is a vibration when Rivo mic is selected.

13. Phone shortcuts

13.1. Phone shortcuts use the same buttons combined with * regardless of the current mode and orientation.

13.2. To receive the first incoming call, press * + R1.

13.3. To receive the second incoming call, press * + R1.

13.4. To switch between the first call and the second call, press * + R1.

13.5. To end the current call, press * + R4.

13.6. To end the first call and receive the second incoming call, press * + R4.

13.7. To reject the first incoming call, press * + R4.

13.8. To toggle the speakerphone, press * + R2. When the spearkerphone is turned on, there is a vibration.

13.9. To mute the mic while in a call, press * + R3. When the mic is muted, there is a vibration.

13.10. To transfer audio between Rivo and iPhone during a phone call, press * + L2.

13.11. To increase or decrease call-related volumes, press * + #, or * + 0. You may control volumes for call, ringtone, ringback tone, and earphone.

13.12. To set Rivo to vibrate and play ringtone on a phone call, press * + L4.

13.13. To set Rivo to play ringtone on a phone call, press * + L4, L4.

13.14. To mute the ringtone or vibration, press * + 2, or * + 8.

13.15. To set Rivo into the Phone mode, press KEYBOARD and AUDIO simultaneously. Or you may press POWER and AUDIO simultaneously.

14. Setting Keyboards in iPhone and Rivo

14.1. Rivo requires appropriate keyboards at Settings, General, Keyboard, Keyboards as well as appropriate hardware keyboard for each of the keyboards at Settings, General, Keyboard, Hardware Keyboard.

14.2. Up to two languages can be set in Rivo; one mandatory language at L3 and another optional language at L4.

14.3. The mandatory language at L3 can be any Roman alphabet language. The initial factory setting is English.

14.4. To set a language at L3, press L3 + L1, 6, followed by pressing the language code.

14.5. To set Rivo into the L3 language typing mode, press L3.

14.6. The optional language at L4 can be any language. The initial factory setting is none.

14.7. To set a language at L4, press L3 + L1, L4, 6, followed by pressing the language code.

14.8. To unset a language at L4, press L3 + L1, L4, R1.

14.9. To set Rivo into the L4 language typing mode when a language is set at L4, press L4. Note that when a language is not set at L4, Rivo is set into the number typing mode when L4 is pressed; otherwise, Rivo can be set into the number typing mode by pressing L4 + R4.

14.10. Please check each language section in later part of this manual for necessary settings for iPhone and Rivo as well as layouts of letters and symbols for the language. Currently supported languages are Arabic, Belgian, British, Bulgarian, Catalan, Czech, Danish, Dutch, English, Finnish, Flemish, French, German, Greek, Hebrew, Hungarian, Icelandic, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Spanish, Swedish, Swiss, Turkish, Ukrainian.

15. Synchronizing Keyboards between iPhone and Rivo

15.1. More than one or two keyboards can be set in iPhone Settings, General, Keyboard, Keyboards. In this case, be sure to confirm that the right keyboard for the current language is selected at iPhone when typing letters with Rivo.

15.2. Switching between keyboard entries at iPhone can be done by pressing L3 or L4 repeatedly. That is, if you set Rivo to a language typing mode with L3 or L4, but the typed letters are not as expected, switch the current iPhone keyboard to the one for the current Rivo language by pressing L3 or L4 repeatedly until you select the right keyboard at iPhone.

16. Typing Text

16.1. To type a text in a text field, it needs to be activated first. To activate it, select the text field, and then press 5. Note that iPhone temporarily sets the quick navigation off, but it will be turned on again automatically when the VoiceOver focus comes out of the text field.

16.2. Instead of activating the text field, you may alternatively turn the quick navigation off manually with R1 + 1. In this case, be sure to turn the quick navigation back to on when finished with R1 + 1 again. Sometimes when you cannot activate the current text field or you need to move the VoiceOver cursor to read the screen while still typing letters in a text field, you may have to use this alternative, but be sure to turn the quick navigation back to on afterwards.

16.3. Letters in each language are assigned to each number button as described in the corresponding language section.

16.4. Letters with diacritic accent marks in a language are typed in the form of R2 + X while Rivo is in the language typing mode as described in the corresponding language section.

16.5. Roman alphabet languages share the Mobience QWERTY layout and the ABC layout.

16.6. Mobience QWERTY is the default layout when typing letters, which is set by pressing L3 + L1, 4, 1.

16.7. ABC layout can be set by pressing L3 + L1, 4, 2.

16.8. Mobience QWERTY is highly recommended for efficiency when typing letters and for consistency when typing letters with diacritic accent marks as well as for mnemonics of commands.

16.9. To type capital letters, set Rivo into either the sentence mode or the caps lock mode. In the sentence mode, only the first letter is capitalized, and in the caps lock mode, all the successive letters are capitalized. Note that uppercase versions of letters with diacritic accent marks are typed in these modes.

16.10. To set Rivo into the L3 language lowercase typing mode, press L3.

16.11. To set Rivo into the sentence mode of the language set at L3, press R1 + L3.

16.12. To set Rivo into the caps lock mode of the language set at L3, press R1 + L3, L3.

16.13. To set Rivo into the L4 language lowercase typing mode when a language is set at L4, press L4.

16.14. To set Rivo into the sentence mode of the language set at L4, press R1 + L4.

16.15. To set Rivo into the caps lock mode of the language set at L4, press R1 + L4, L4.

16.16. Note that some languages set at L4 may not distinguish lowercase and uppercase letters.

16.17. To type a letter in a button where multiple letters are assigned, press the button repeatedly until the right letter is typed.

16.18. To type another letter in the same button right after typing a letter, press L2 or R2. For example, to type www, press 1, 1, R2, R2, 1, 1.

16.19. To type a tab to enter the tab character or to jump to the next text field, press L1.

16.20. To type a backtab to jump to the previous text field, press R4 + L1, L1.

16.21. To type a backspace to delete a letter backward, press R1.

16.22. To type an enter, press R3, and to type an enter with option modifier on, press R4 + R3. Depending on apps, one of these starts a new line while the other triggers an event like sending a message.

16.23. To type a space, press #.

16.24. Symbols are typed in the symbol mode, where the layout of symbols are as in the appendix, Common Symbols.

16.25. To set Rivo into the symbol mode while in any text mode, press *. Then, type a symbol just like typing a letter. Note that those symbols assigned at B* can be typed with L2 or R2.

16.26. After typing a symbol, Rivo returns back into the previous text mode automatically.

16.27. To type a letter in the same button right after typing a symbol, press L2 or R2. For example, to type @i, press *, 6, L2.

16.28. There can be some additional symbols depending on the current language as described in the corresponding language section. They are typed in the form of *, R2 + X.
16.29. Numbers are typed in the number mode or with number shortcuts.
16.30. To set Rivo into the number mode when no language is set at L4, press L4.
16.31. To set Rivo into the number mode when a language is set at L4, press L4 + R4.
16.32. Numbers are typed also with number shortcuts in any mode without changing into the number mode by holding down L4, followed by pressing the number buttons. These number shortcuts are convenient when you type a small number while typing letters or typing passcode while in the navigation mode.
16.33. A backspace can also be typed with L4 + R1 in any mode, and an enter with L4 + R3.
16.34. Two symbols, * and #, can also be typed with L4 + * and L4 + #.
16.35. To show or hide the onscreen keyboard manually, press L4 + R4, R4.

17. Editing Text
17.1. To edit the text in a text field, it needs to be activated first. To activate it, select the text field, and then press 5. Note that iPhone temporarily sets the quick navigation off, but it will be turned on again automatically when the VoiceOver focus comes out of the text field. Then, set Rivo to a text typing mode to edit.
17.2. Instead of activating the text field, you may alternatively turn the quick navigation off manually with R1 + 1. In this case, be sure to turn the quick navigation back to on when finished with R1 + 1 again.
17.3. Remember that editing text is only possible when Rivo is in a text typing mode and the quick navigation of iPhone is off.
17.4. All the edit commands are shortcuts in the form of R4 + X.
17.5. To move the cursor letter by letter, press R4 + 4, or R4 + 6.
17.6. To move the cursor word by word, press R4 + L2, or R4 + R2.
17.7. To move the cursor to the start or the end of the current line on the screen, press R4 + 1, or R4 + 7.
17.8. To move the cursor line by line, press R4 + 2, or R4 + 8.
17.9. To delete a letter forward, press R4 + R1. Remember that R1 deletes a letter backward.
17.10. To select a text block, move the cursor to the starting position first. Hold down R4, press 5 to start selecting a text block, move the cursor to mark the opposite end of the text block, and then release R4.
17.11. To select the whole text in the current text field, press R4 + 9.
17.12. To cut or copy the selected text block to the clipboard, press R4 + *, or R4 + 0.
17.13. To paste a text block from the clipboard, press R4 + #.
17.14. There are more edit shortcut commands in an extension group which can be set by holding down R4, and then pressing L1 without releasing R4. That is, these edit extension commands are in the form of R4 + L1, X.
17.15. To move the cursor to the top of the current text field, press R4 + L1, 3.
17.16. To move the cursor to the bottom of the current text field, press R4 + L1, 9.
17.17. To delete a letter backward, press R4 + L1, 4.
17.18. To delete a letter forward, press R4 + L1, 6.
17.19. To delete a word backward, press R4 + L1, L2.
17.20. To delete a word forward, press R4 + L1, R2.
17.21. To delete all the letters to the start of the current line on the screen, press R4 + L1, 1.
17.22. To delete all the letters to the end of the current line on the screen, press R4 + L1, 7.
17.23. To delete all the letters in the current line on the screen, press R4 + L1, 5.
17.24. To undo, press R4 + L1, *.
17.25. To redo, press R4 + L1, #.

18. Vertical Orientation
18.1. Rivo can be used either in the horizontal orientation or in the vertical orientation depending on the setting.
18.2. The horizontal orientation is the default, and even if Rivo is set in the vertical orientation, it will reset to the horizontal orientation when turned on.
18.3. Buttons in the horizontal orientation are directly mapped to corresponding buttons in the vertical orientation by the name.
18.4. L1, L2, L3 and L4 are mapped to T1, T2, T3 and T4, respectively.
18.5. R1, R2, R3 and R4 are mapped to D1, D2, D3 and D4, respectively.

18.6. The other buttons are mapped to buttons with the same names.

18.7. To set Rivo in the horizontal orientation, press L3 + R3.

18.8. To set Rivo in the vertical orientation, press L3 + R3, R3. When set in the vertical orientation, there is a vibration.

18.9. Basically, most commands in the horizontal orientation are directly mapped to the commands in the vertical orientation just by mapping the button names.

18.10. Some commands use the same physical buttons in both orientations. These are keys for orientation setting, media mode setting, Phone shortcuts, Bluetooth pairing/connection/device numbers, and Rivo settings.

18.11. Some commands may not be provided in the vertical orientation.

18.12. Media shortcut commands in the horizontal orientation also work in the vertical orientation using the same physical buttons.

Appendix

Appendix 1. Mobience QWERTY
1.1. Alphabet letters are assigned to each number button as follows in Mobience QWERTY:
>1 - e, w, q
>2 - t, u, y
>3 - o, p
>4 - a, d, z
>5 - r, f, v
>6 - i, l, j
>7 - s, c, x
>8 - h, g, b
>9 - n, m, k

1.2. In Mobience QWERTY, 26 alphabet letters are assigned to 9 buttons based on QWERTY to make them easy to locate. The letters q, w, e are at 1, t, y, u at 2, o, p at 3. The letters a, d are at 4, f at 5, j, l at 6. The letters x, c are at 7, b at 8, n, m at 9. These 18 letters are relatively at the same location as QWERTY. The remaining 8 letters are just one row above or below the same relative location as QWERTY. The letters g, h are at 8, i at 6, k at 9, r at 5, s at 7, v at 5, z at 4.
1.3. Letters in each button are sorted according to usage frequency to make them fast to type. For example, there are e, w, q instead of q, w, e at 1. Note that Mobience QWERTY requires just 1.35 taps per letter on the average, while the traditional ABC requires 2.14, which makes typing in Mobience QWERTY much faster than in ABC.
1.4. Although there are two layouts for alphabet letters, Mobience QWERTY and ABC, Mobience QWERTY is the default, and is highly recommended for efficiency when typing letters and for consistency when typing letters with diacritic accent marks as well as for mnemonics of commands.
1.5. To set Rivo to use Mobience QWERTY layout when typing letters, press L3 + L1, 4, 1.

Appendix 2. ABC
2.1. Alphabet letters are assigned to each number button as follows in ABC:
>2 - a, b, c
>3 - d, e, f
>4 - g, h, i
>5 - j, k, l
>6 - m, n, o
>7 - p, q, r, s
>8 - t, u, v
>9 - w, x, y, z

2.2. Although there are two layouts for alphabet letters, Mobience QWERTY and ABC, Mobience QWERTY is the default, and is highly recommended for efficiency when typing letters and for consistency when typing letters with diacritic accent marks as well as for mnemonics of commands.
2.3. To set Rivo to use ABC layout when typing letters, press L3 + L1, 4, 2.
2.4. To set Rivo to use Mobience QWERTY layout when typing letters, press L3 + L1, 4, 1.

Appendix 3. Common Symbols
3.1. Common keyboard symbols are assigned to each number button as follows:
>1 - exclamation mark, slash, backslash
>2 - question mark, tilde, grave
>3 - minus, plus, vertical bar
>4 - single quotation mark, less-than sign, opening bracket
>5 - double quotation mark, equal, underscore
>6 - at sign, opening parenthesis, opening brace
>7 - semicolon, greater-than sign, closing bracket
>8 - colon, ampersand, dollar
>9 - comma, closing parenthesis, closing brace

        * - asterisk, percent sign, circumflex
        0 - period
        # - number sign

3.2. When in any text typing mode, * sets Rivo to the temporary symbol typing mode, in which all the 32 standard keyboard symbols are assigned to 12 buttons in the middle. It automatically returns back to the previous typing mode after typing of one symbol.

3.3. Symbols are assigned to buttons according to similarities in their shapes between symbols and numbers to make them easy to locate. Further, frequently used punctuation marks are first symbols of buttons to make them fast to type.

3.4. Exclamation mark is at 1 since it is shaped similar to figure 1. Likewise, question mark is at 2, single quotation mark at 4, double quotation mark at 5, and at sign at 6. Semicolon is at 7, colon at 8, comma at 9, and period at 0. Slash and backslash are at 1, tilde at 2, equal sign at 5, ampersand and dollar at 8. Less-than and greater-than signs are at 4 and 7, respectively, and also are opening and closing brackets. Opening and closing parentheses are at 6 and 9, respectively, and also are opening and closing braces. Asterisk, percent sign, and circumflex are at *, and number sign at #. For the remaining symbols, underscore is at 5, grave at 2, minus, plus, vertical bar symbols at 3.

3.5. The period at 0, and the number sign at #, are the only symbols at the buttons; thus, when one of these buttons are pressed after *, the corresponding symbol is typed, and Rivo returns back to the previous typing mode immediately. The other buttons, however, have more than one symbol; thus, multi-tapping selection is necessary to type a symbol at one of these buttons. When the right symbol is typed, you can finish, return to the previous typing mode, and continue typing more by pressing another button including L2 and R2.

3.6. If you don't want to type a symbol right after *, press R1 to cancel the symbol typing mode and return to the previous typing mode.

Languages

Arabic (AR)

Letters are assigned to each number button as follows:

2 - ب ت ة، ث

3 - ا، أ، إ، آ، ى ئ، ؤ، ء

4 - س ش ص ض

5 - د، ذ، ر، ز

6 - ج، ح، خ

7 - ن، ه، و، ي

8 - ف ق ك ل، م

9 - ط ظ، ع، غ

Symbols are assigned to each number button as in Appendix 3. Common Symbols with the following exceptions:

2 - Arabic question mark

7 - Arabic semicolon, greater-than sign, closing bracket

9 - Arabic comma, closing parenthesis, closing brace

* - asterisk, Arabic percent sign, circumflex

- number sign, euro sign, pound sign

Confirm that there is Arabic keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Arabic is selected for the Arabic keyboard at Settings, General, Keyboard, Hardware Keyboard.

Arabic language code is A R, or 4 5, which can be set at L4.
To set Arabic language at L4, press L3 + L1, L4, 6, 4, 5.

Belgian (BEL)

Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks for three languages in Belgium, which are Dutch, French and German, can be typed as follows:

é - R2 + 1

ä, ë, ï, ö, ü, ÿ - R2 + 2, after typing the base letter (a, e, i, o, u, y)

â, ê, î, ô, û - R2 + 5, after typing the base letter (a, e, i, o, u)

à, è, ù - R2 + 8, after typing the base letter (a, e, u)

ç - R2 + 7

ß - R2 + 7, 7

œ - R2 + 3

æ - R2 + 4

Additional symbols can be typed in the symbol typing mode as follows:

€ - R2 + 6

£ - R2 + #

ª - R2 + 4

º - R2 + 3

¡ - R2 + 1

¿ - R2 + 2

Confirm that there is Dutch (Belgium), French (Belgium), or German (Germany) keyboard at Settings, General, Keyboard, Keyboards.

Confirm also that Automatic, Belgian, or French is selected for Dutch (Belgium) keyboard, or French (Belgium) keyboard, and Belgian or French is selected for German (Germany) keyboard at Settings, General, Keyboard, Hardware Keyboard.

Belgian language code is B E L, or 8 1 6, which can be set at L3 or L4.
To set Belgian language at L3, press L3 + L1, 6, 8, 1, 6.
To set Belgian language at L4, press L3 + L1, L4, 6, 8, 1, 6.

British (B)
English (United Kingdom)
Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional symbols.

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #
ª - R2 + 4
º - R2 + 3
¡ - R2 + 1
¿ - R2 + 2

Confirm that there is English (United Kingdom) keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or British is selected for the British keyboard at Settings, General, Keyboard, Hardware Keyboard.

British language code is B, or 8, which can be set at L3 or L4.
To set British language at L3, press L3 + L1, 6, 8.
To set British language at L4, press L3 + L1, L4, 6, 8.

Bulgarian (BG)
Letters are assigned to each number button as follows:
2 - а, б, в, г
3 - д, е, ж, з
4 - и, й, к, л
5 - м, н, о, п
6 - р, с, т, у
7 - ф, х, ц, ч
8 - ш, щ, ъ
9 - ь, ю, я

Symbols are assigned to each number button as in Common Symbols with the following exceptions:
- number sign, euro sign, pound sign

Confirm that there is Bulgarian keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Bulgarian - Phonetic is selected for the Bulgarian keyboard at Settings, General, Keyboard, Hardware Keyboard.

Bulgarian language code is B G, or 8 8, which can be set at L4.
To set Bulgarian language at L4, press L3 + L1, L4, 6, 8, 8.

Catalan (CA)
Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
é - R2 + 1
è - R2 + 1, 1
ú - R2 + 2
ü - R2 + 2, 2
ó - R2 + 3
ò - R2 + 3, 3
à - R2 + 4
í - R2 + 6
ï - R2 + 6, 6
ç - R2 + 7

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #
ª - R2 + 4
º - R2 + 3
¡ - R2 + 1
¿ - R2 + 2

Confirm that there is Catalan keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Spanish - ISO is selected for the Catalan keyboard at Settings, General, Keyboard, Hardware Keyboard.

Catalan language code is C A, or 7 4, which can be set at L3 or L4.
To set Catalan language at L3, press L3 + L1, 6, 7, 4.
To set Catalan language at L4, press L3 + L1, L4, 6, 7, 4.

Czech (CS)
Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
é - R2 + 1
ě - R2 + 1, 1
ť - R2 + 2
ú - R2 + 2, 2
ý - R2 + 2, 2, 2
ó - R2 + 3
á - R2 + 4
ď - R2 + 4, 4
ž - R2 + 4, 4, 4
ř - R2 + 5
í - R2 + 6
š - R2 + 7
č - R2 + 7, 7
ů - R2 + 8
ň - R2 + 9

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #

Confirm that there is Czech keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Czech is selected for the Czech keyboard at Settings, General, Keyboard, Hardware Keyboard.

Czech language code is C S, or 7 7, which can be set at L3 or L4.
To set Czech language at L3, press L3 + L1, 6, 7, 7.
To set Czech language at L4, press L3 + L1, L4, 6, 7, 7.

Danish (DA)
Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
å - R2 + 4
ø - R2 + 3
æ - R2 + 2
é - R2 + 1

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #
ª - R2 + 4
º - R2 + 3
¡ - R2 + 1
¿ - R2 + 2

Confirm that there is Danish keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Danish is selected for the Danish keyboard at Settings, General, Keyboard, Hardware Keyboard.

Danish language code is D A, or 4 4, which can be set at L3 or L4.
To set Danish language at L3, press L3 + L1, 6, 4, 4.
To set Danish language at L4, press L3 + L1, L4, 6, 4, 4.

Dutch (NL)
Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
ä - R2 + 4
ë - R2 + 1
ï - R2 + 6
ö - R2 + 3
ü - R2 + 2

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #
ª - R2 + 4
º - R2 + 3
¡ - R2 + 1
¿ - R2 + 2

Confirm that there is Dutch (Netherlands) keyboard at Settings, General, Keyboard, Keyboards.

Confirm also that Automatic or Dutch is selected for the Dutch (Netherlands) keyboard at Settings, General, Keyboard, Hardware Keyboard.

Dutch language code is N L, or 9 6, which can be set at L3 or L4.

To set Dutch language at L3, press L3 + L1, 6, 9, 6.

To set Dutch language at L4, press L3 + L1, L4, 6, 9, 6.

English (EN)

Letters are assigned to each number button as in Mobience QWERTY or ABC.

Symbols are assigned to 12 buttons in the middle as in Common Symbols.

Confirm that there is an English keyboard at Settings, General, Keyboard, Keyboards.

Confirm also that Automatic, U.S., Australian, or Canadian English is selected for the English keyboard at Settings, General, Keyboard, Hardware Keyboard.

English language code is E N, or 1 9, which can be set at L3 or L4.

To set English language at L3, press L3 + L1, 6, 1, 9.

To set English language at L4, press L3 + L1, L4, 6, 1, 9.

Finnish (FI)

Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:

ä - R2 + 2

ö - R2 + 3

å - R2 + 4

Additional symbols can be typed in the symbol typing mode as follows:

€ - R2 + 6

£ - R2 + #

ª - R2 + 4

º - R2 + 3

¡ - R2 + 1

¿ - R2 + 2

Confirm that there is Finnish keyboard at Settings, General, Keyboard, Keyboards.

Confirm also that Automatic or Finnish is selected for the Finnish keyboard at Settings, General, Keyboard, Hardware Keyboard.

Finnish language code is F I, or 5 6, which can be set at L3 or L4.

To set Finnish language at L3, press L3 + L1, 6, 5, 6.

To set Finnish language at L4, press L3 + L1, L4, 6, 5, 6.

Flemish (XX)

French (FR)

Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
é - R2 + 1
ë, ï, ü, ÿ - R2 + 2, after typing the base letter (e, i, u, y)
â, ê, î, ô, û - R2 + 5, after typing the base letter (a, e, i, o, u)
à, è, ù - R2 + 8, after typing the base letter (a, e, u)
ç - R2 + 7
œ - R2 + 3
æ - R2 + 4

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #
ª - R2 + 4
º - R2 + 3
¡ - R2 + 1
¿ - R2 + 2

Confirm that there is French (France), French (Switzerland), French (Canada), or French (Belgium) keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or French is selected for the French (France) keyboard or French (Belgium) keyboard, and French is selected for French (Switzerland) keyboard or French (Canada) keyboard at Settings, General, Keyboard, Hardware Keyboard.

French language code is F R, or 5 5, which can be set at L3 or L4.
To set French language at L3, press L3 + L1, 6, 5, 5.
To set French language at L4, press L3 + L1, L4, 6, 5, 5.

German (DE)
Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
ä - R2 + 4
ö - R2 + 3
ü - R2 + 2
ß - R2 + 7

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #
ª - R2 + 4
º - R2 + 3
¡ - R2 + 1
¿ - R2 + 2

Confirm that there is German (Germany), German (Austria) or German (Switzerland) keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or German is selected for German (Germany) keyboard or German (Austria) keyboard, and German is selected for German (Switzerland) keyboard at Settings, General, Keyboard, Hardware Keyboard.

German language code is D E or 4 1, which can be set at L3 or L4.
To set German language at L3, press L3 + L1, 6, 4, 1.

To set German language at L4, press L3 + L1, L4, 6, 4, 1.

Greek (EL)
Letters are assigned to each number button as follows:
2 - α, β, γ, ά
3 - δ, ε, ζ, έ
4 - η, θ, ι, ή, ί, ϊ, ΐ
5 - κ, λ, μ
6 - ν, ξ, ο, ό
7 - π, ρ, σ, ς
8 - τ, υ, φ, ϋ, ύ, ΰ
9 - χ, ψ, ω, ώ

Symbols are assigned to each number button as in Common Symbols with the following exceptions:
- number sign, euro sign, pound sign

Confirm that there is Greek keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Greek is selected for the Greek keyboard at Settings, General, Keyboard, Hardware Keyboard.

Greek language code is E L or 1 6, which can be set at L4.
To set Greek language at L4, press L3 + L1, L4, 6, 1, 6.

Hebrew (HE)
Letters are assigned to each number button as follows:
2 - ד, ה, ו
3 - א, ב, ג
4 - מ, ם, נ , ן
5 - ' , כ, ך, ל
6 - ז , ח, ט
7 - ת, ש, ר
8 - צ, ץ, ק
9 - ס, ע, פ, ף

Symbols are assigned to each number button as in Common Symbols with the following exceptions:
1 - exclamation mark, slash
2 - question mark, tilde
8 - colon, sheqel, dollar, euro sign

Confirm that there is Hebrew keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Hebrew is selected for the Hebrew keyboard at Settings, General, Keyboard, Hardware Keyboard.

Hebrew language code is H E or 8 1, which can be set at L4.
To set Hebrew language at L4, press L3 + L1, L4, 6, 8, 1.

Hungarian (HU)
Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
é - R2 + 1
ú - R2 + 2

ü - R2 + 2, 2
ű - R2 + 2, 2, 2
ó - R2 + 3
ö - R2 + 3, 3
ő - R2 + 3, 3, 3
á - R2 + 4
í - R2 + 6

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #

Confirm that there is Hungarian keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Hungarian is selected for the Hungarian keyboard at Settings, General, Keyboard, Hardware Keyboard.

Hungarian language code is H U or 8 2, which can be set at L3 or L4.
To set Hungarian language at L3, press L3 + L1, 6, 8, 2.
To set Hungarian language at L4, press L3 + L1, L4, 6, 8, 2.

Icelandic (IS)
Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
é - R2 + 1
ú - R2 + 2
ý - R2 + 2, 2
ó - R2 + 3
á - R2 + 4
æ - R2 + 5
í - R2 + 6
ð - R2 + 7
þ - R2 + 8
ö - R2 + 9

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #
ª - R2 + 4
º - R2 + 3
¡ - R2 + 1
¿ - R2 + 2

Confirm that there is Icelandic keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Icelandic is selected for the Icelandic keyboard at Settings, General, Keyboard, Hardware Keyboard.

Icelandic language code is I S or 6 7, which can be set at L3 or L4.
To set Icelandic language at L3, press L3 + L1, 6, 6, 7.
To set Icelandic language at L4, press L3 + L1, L4, 6, 6, 7.

Italian (IT)

Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
à - R2 + 4
è - R2 + 1
é - R2 + 1, 1
ì - R2 + 6
ò - R2 + 3
ó - R2 + 3, 3
ù - R2 + 2
î - R2 + 5

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #
ª - R2 + 4
º - R2 + 3
¡ - R2 + 1
¿ - R2 + 2

Confirm that there is Italian keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Italian is selected for the Italian keyboard at Settings, General, Keyboard, Hardware Keyboard.

Italian language code is I T or 6 2, which can be set at L3 or L4.
To set Italian language at L3, press L3 + L1, 6, 6, 2.
To set Italian language at L4, press L3 + L1, L4, 6, 6, 2.

Japanese (JA)
Letters are assigned to each number button as follows:

1 - あ, い, う, え, お

2 - か, き, く, け, こ

3 - さ, し, す, せ, そ

4 - た, ち, つ, て, と

5 - な, に, ぬ, ね, の

6 - は, ひ, ふ, へ, ほ

7 - ま, み, む, め, も

8 - や, ゆ, よ

9 - ら, り, る, れ, ろ

0 - わ, を, ん

Additional symbols can be typed as follows with other common keyboard symbols as in Common Symbols:
ー - R2 + 5

「 - R2 + 7

」 - R2 + 9

・ - R2 + *

… - R2 + 0

¥ - R2 + L1, 2

Confirm that there is Japanese keyboard, either Kana or Romaji, at Settings, General, Keyboard, Keyboards.

Confirm also that Automatic or U.S. is selected for the Japanese keyboard at Settings, General, Keyboard, Hardware Keyboard.

Japanese language code is J A or 6 4, which can be set at L4.

To set Japanese language at L4, press L3 + L1, L4, 6, 6, 4.

Typing in Japanese needs additional rules as follows:

1. To set Rivo into the Japanese hiragana typing mode, press L4.

2. If the current keyboard of iPhone is not Japanese, press L4 repeatedly until Japanese is selected.

3. To type a letter in a button, press the button repeatedly until the right letter is typed.

4. To change the current hiragana letter into its small letter, dakuten or handakuten, press L2.

After typing Japanese Hiragana letter or word, press the followings repeatedly to select its Kanji version:

5. To select the next candidate, press #.

6. To select the previous candidate, press R2 + #.

7. To select a candidate in backward or forward direction, press R2 + 4 or R2 + 6.

8. To select a candidate in the previous or the next line in candidate table, press R2 + 2 or R2 + 8.

9. To move the cursor within the current input word while typing, press R2 + 1 or R2 + 3.

10. To confirm the current selection, press R3.

11. To type Hiragana letters without selecting its Kanji version, press R3 right after typing Hiragana.

Korean (KO)

Letters are assigned to each number button as follows:

1 - ㄱ, ㅁ, ㄲ

2 - ㅅ, ㅈ, ㅋ

3 - ㅓ, ㅕ

4 - ㄴ, ㄷ, ㄸ

5 - ㅇ, ㅎ, ㅌ

6 - ㅣ, ㅛ, ㅠ

7 - ㄹ, ㅂ, ㅃ

8 - ㅗ, ㅆ, ㅍ

9 - ㅏ, ㅜ, ㅑ

0 - ㅡ, ㅊ, ㅉ

Confirm that there is Korean keyboard, either Standard or 10 Key, at Settings, General, Keyboard, Keyboards.

Confirm also that Automatic or 2-Set Korean is selected for the Korean keyboard at Settings, General, Keyboard, Hardware Keyboard.

Korean language code is K or 9, which can be set at L4.

To set Korean language at L4, press L3 + L1, L4, 6, 9.

Norwegian (NO)

Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
å - R2 + 4
ø - R2 + 3
æ - R2 + 2
é - R2 + 1

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #
ª - R2 + 4
º - R2 + 3
¡ - R2 + 1
¿ - R2 + 2

Confirm that there is Norwegian Bokmål keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Norwegian is selected for the Norwegian Bokmål keyboard at Settings, General, Keyboard, Hardware Keyboard.

Norwegian language code is N O or 9 3, which can be set at L3 or L4.
To set Norwegian language at L3, press L3 + L1, 6, 9, 3.
To set Norwegian language at L4, press L3 + L1, L4, 6, 9, 3.

Polish (PL)
Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
ę - R2 + 1
ż - R2 + 2
ó - R2 + 3
ą - R2 + 4
ź - R2 + 5
ł - R2 + 6
ś - R2 + 7
ć - R2 + 8
ń - R2 + 9

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #
ª - R2 + 4
º - R2 + 3
¡ - R2 + 1
¿ - R2 + 2

Confirm that there is Polish keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Polish Pro is selected for the Polish keyboard at Settings, General, Keyboard, Hardware Keyboard.

Polish language code is P L or 3 6, which can be set at L3 or L4.

To set Polish language at L3, press L3 + L1, 6, 3, 6.
To set LANGUPolishAGE language at L4, press L3 + L1, L4, 6, 3, 6.

Portuguese (PT)
Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
é - R2 + 1
ê - R2 + 1, 1
ú - R2 + 2
ü - R2 + 2, 2
ó - R2 + 3
ô - R2 + 3, 3
á - R2 + 4
â - R2 + 4, 4
í - R2 + 6
ç - R2 + 7
à - R2 + 8
ã - R2 + 9
õ - R2 + 9, 9

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #
ª - R2 + 4
º - R2 + 3
¡ - R2 + 1
¿ - R2 + 2

Confirm that there is either Portuguese (Portugal) or Portuguese (Brazil) keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Portuguese is selected for the Portuguese (Portugal) keyboard, and Portuguese is selected for the Portuguese (Brazil) keyboard at Settings, General, Keyboard, Hardware Keyboard.

Portuguese language code is P T or 3 2, which can be set at L3 or L4.
To set Portuguese language at L3, press L3 + L1, 6, 3, 2.
To set Portuguese language at L4, press L3 + L1, L4, 6, 3, 2.

Romanian (RO)
Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
ă - R2 + 4
â - R2 + 5
î - R2 + 6
ş - R2 + 7
ţ - R2 + 2

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #

ª - R2 + 4
º - R2 + 3
¡ - R2 + 1
¿ - R2 + 2

Confirm that there is Romanian keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Romanian is selected for the Romanian keyboard at Settings, General, Keyboard, Hardware Keyboard.

Romanian language code is R O or 5 3, which can be set at L3 or L4.
To set Romanian language at L3, press L3 + L1, 6, 5, 3.
To set Romanian language at L4, press L3 + L1, L4, 6, 5, 3.

Russian (RU)
Letters are assigned to each number button as follows:
2 - а, б, в, г
3 - д, е, ё, ж, з
4 - и, й, к, л
5 - м, н, о, п
6 - р, с, т, у
7 - ф, х, ц, ч
8 - ш, щ, ъ, ы
9 - ь, э, ю, я

Symbols are assigned to each number button as in Common Symbols with the following exceptions:
1 - exclamation mark, slash
- number sign, euro sign, pound sign

Confirm that there is Russian keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Russian is selected for the Russian keyboard at Settings, General, Keyboard, Hardware Keyboard.

Russian language code is R U or 5 2, which can be set at L4.
To set Russian language at L4, press L3 + L1, L4, 6, 5, 2.

Serbian (SR)
Letters are assigned to each number button as follows:
2 - а, б, ц, ч, ћ
3 - д, е, ф, ђ
4 - г, х, и
5 - ј, к, л
6 - м, н, о
7 - п, љ, р, с, ш
8 - т, у, в
9 - њ, џ, з, ж

Symbols are assigned to each number button as in Common Symbols with the following exceptions:
- number sign, euro sign, pound sign

Confirm that there is Serbian keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Serbian is selected for the Serbian keyboard at Settings, General, Keyboard, Hardware Keyboard.

Serbian language code is S R or 7 5, which can be set at L4.
To set Serbian language at L4, press L3 + L1, L4, 6, 7, 5.

Spanish (ES)
Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
é - R2 + 1
ú - R2 + 2
ü - R2 + 2, 2
ó - R2 + 3
á - R2 + 4
í - R2 + 6
ñ - R2 + 9

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #
ª - R2 + 4
º - R2 + 3
¡ - R2 + 1
¿ - R2 + 2

Confirm that there is Spanish (Spain), Spanish (Latin America) or Spanish (Mexico) keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Spanish - ISO is selected for the Spanish keyboard at Settings, General, Keyboard, Hardware Keyboard.

Spanish language code is E S or 1 7, which can be set at L3 or L4.
To set Spanish language at L3, press L3 + L1, 6, 1, 7.
To set Spanish language at L4, press L3 + L1, L4, 6, 1, 7.

Swedish (S)
Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
ä - R2 + 2
å - R2 + 4
ö - R2 + 3
é - R2 + 1

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #
ª - R2 + 4
º - R2 + 3
¡ - R2 + 1
¿ - R2 + 2

Confirm that there is Swedish keyboard at Settings, General, Keyboard, Keyboards.

Confirm also that Automatic or Swedish - Pro is selected for the Swedish keyboard at Settings, General, Keyboard, Hardware Keyboard.

Swedish language code is S or 7, which can be set at L3 or L4.
To set Swedish language at L3, press L3 + L1, 6, 7.
To set Swedish language at L4, press L3 + L1, L4, 6, 7.

Swiss (SW)
Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks for three languages in Switzerland, which are German, French and Italian, can be typed as follows:
é - R2 + 1
ä, ë, ï, ö, ü, ÿ - R2 + 2, after typing the base letter (a, e, i, o, u, y)
â, ê, î, ô, û - R2 + 5, after typing the base letter (a, e, i, o, u)
à, è, ì, ò, ù - R2 + 8, after typing the base letter (a, e, i, o, u)
ß - R2 + 7
ç - R2 + 7, 7
œ - R2 + 3
ó - R2 + 3, 3
æ - R2 + 4

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6
£ - R2 + #
ª - R2 + 4
º - R2 + 3
¡ - R2 + 1
¿ - R2 + 2

Confirm that there is German, French or Italian keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Swiss German or Swiss French is selected for any of the above keyboards at Settings, General, Keyboard, Hardware Keyboard.

Swiss language code is S W or 7 1, which can be set at L3 or L4.
To set Swiss language at L3, press L3 + L1, 6, 7, 1.
To set Swiss language at L4, press L3 + L1, L4, 6, 7, 1.

Turkish (TR)
Roman alphabet letters and common keyboard symbols are as in Mobience QWERTY and Common Symbols, and there are additional letters and symbols.

Letters with diacritic accent marks can be typed as follows:
ç - R2 + 7
ş - R2 + 4
ğ - R2 + 8
ı - R2 + 6
ö - R2 + 3
ü - R2 + 2

Additional symbols can be typed in the symbol typing mode as follows:
€ - R2 + 6

£ - R2 + #
¿ - R2 + 2

Confirm that there is Turkish keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Turkish - QWERTY PC is selected for the Turkish keyboard at Settings, General, Keyboard, Hardware Keyboard.

Turkish language code is T R or 2 5, which can be set at L3 or L4.
To set Turkish language at L3, press L3 + L1, 6, 2, 5.
To set Turkish language at L4, press L3 + L1, L4, 6, 2, 5.

Ukrainian (UK)
Letters are assigned to each number button as follows:
2 - а, б, в, г, ґ
3 - д, е, є, ж, з, ё
4 - и, і, ї, й, к, л
5 - м, н, о, п
6 - р, с, т, у, ў
7 - ф, х, ц, ч
8 - ш, щ, ъ, ы
9 - ю, я, ь, э

Symbols are assigned to each number button as in Common Symbols with the following exceptions:
1 - exclamation mark, slash
- number sign, euro sign, pound sign

Confirm that there is Ukrainian keyboard at Settings, General, Keyboard, Keyboards.
Confirm also that Automatic or Ukrainian is selected for the Ukrainian keyboard at Settings, General, Keyboard, Hardware Keyboard.

Ukrainian language code is U K or 2 9, which can be set at L4.
To set Ukrainian language at L4, press L3 + L1, L4, 6, 2, 9.

FCC Information to User

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

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

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

Caution

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance Information : This device complies with Part 15 of the FCC Rules. 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