

# Rivo3 Manual

## Rivo 3.5.3

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# A. Basics

## A1 Appearance

- A1.1 The dimensions of Rivo3 are 98mm in width, 52mm in height, 9.5mm in thickness, and it weighs 52g.
- A1.2 On the top edge, from left to right, there are four buttons: POWER, TIME, KEYBOARD, and AUDIO.
- A1.3 On the left side of the front face are three small buttons arranged vertically, and in the center are 20 buttons arranged in a 4x5 grid.
- A1.4 The three small buttons on the far left are, from top to bottom, S1, S2, and S3. The buttons to the right of these are L1, L2, L3, and L4.
- A1.5 On the far right, the buttons are, from top to bottom, R1, R2, R3, and R4.
- A1.6 In the center, the 12 buttons are numbered like a phone keypad: 1 through 9, \*, 0, and #.
- A1.7 A microphone hole is located in the middle of the left edge, while the LED and speaker are on the right side of the front face.
- A1.8 On the bottom edge, from left to right, are the strap hole, USB-C port, and earphone jack.
- A1.9 The POWER button also functions as the reset button when held for more than 10 seconds.

## A2 Button Operation

- A2.1 Hold Rivo with its USB charging port facing downward, placing both thumbs on the front buttons.
- A2.2 The "+" symbol following a button name indicates a button combination. For example, "L3 + L1" means pressing the L3 button first and then pressing the L1 button while holding down L3.
- A2.3 When multiple button names follow the "+" symbol and are separated by commas, press the button before the "+" symbol, then sequentially press and release each button separated by commas in order. For instance, "L3 + L1, 4, 1" means holding down the L3 button while pressing and releasing the L1, 4, and 1 buttons in sequence, then finally releasing the L3 button.

## A3 Power, Charging, Battery Check

- A3.1 Press and hold the POWER button until Rivo vibrates to turn it on or off. There is one long vibration when turning on and two long vibrations when turning off.
- A3.2 Rivo charges using a USB-C cable, with a full charge taking approximately 1.5 hours.
- A3.3 When a USB-C cable is connected for charging, a red LED turns on with a single vibration, and upon full charge, it changes to green with another vibration. If the charging cable is connected and battery feedback sound is set to off, pressing and holding S1 will provide a full-charge feedback with one long vibration followed by one short vibration.
- A3.4 To check the battery level, press and hold the S1 button. The battery level is indicated by vibrations, with five vibrations when fully charged down to one vibration when the battery is low.

## B. Home Mode

### B1 Home Menu

- B1.1 When powered on for the first time, Rivo starts in Home mode, providing access to Rivo's built-in features and settings menu. The state in which a connected device is operated via Bluetooth is Remote mode, which includes Keyboard mode, Audio mode, and Call mode.
- B1.2 To move to the previous or next menu in Home mode, press 4 or 6, then press 5 to select.
- B1.3 To go to the first or last menu, press 1 or 7.
- B1.4 To return to Home mode, press S3.
- B1.5 To adjust the volume, press S1 to increase or S2 to decrease. In Home mode, this changes Rivo's local volume, while in Remote mode, it adjusts the volume of the connected device. Regardless of the current mode, phone volume can always be adjusted by holding \* and pressing S1 or S2, while local Rivo volume can be adjusted by holding S3 and pressing S1 or S2.
- B1.6 To stop the sound in Home mode, press the POWER button briefly.
- B1.7 To switch between Home mode and Remote mode, press S3 + L2 for Home mode, and S3 + R2 for Remote mode.
- B1.8 To open Rivo's user folder, connect Rivo to a computer using a USB cable and press POWER + 0; the folder will open with a vibration. The user storage is about 20 GB, where files can be copied or moved to specific folders: mp3 audiobook files go in the Audio Books folder, mp3 music files in the Music folder, call recordings in the Call Records folder, and voice recordings in the Voice Memos folder. While the user folder is open, Rivo buttons are disabled until the USB cable is disconnected. Note that there are limits to the maximum number of files in a folder, which is currently set to 300.
- B1.9 The files in the Call Records and Voice Memos folders contain recordings of call records and voice memos, respectively. These recordings are intended solely for personal notes, particularly to support visually impaired users who may find it challenging to take notes. Before recording any conversation, please be sure to request and obtain clear consent from all participants and follow any local laws or regulations regarding the use of recordings beyond personal notes.

### B2 Voice Clock, Vibration Clock

- B2.1 Press the TIME button to hear the current time.
- B2.2 Press and hold the TIME button to feel the time through vibrations: long vibrations for tens and short vibrations for single units. For example, 12:34 is represented by one long vibration, two short vibrations, three long vibrations, and four short vibrations.
- B2.3 Press and hold S2 to check only the current minute through vibrations.
- B2.4 To stop the time announcement, press the POWER button briefly.
- B2.5 The TIME button functions even when Rivo's buttons are locked.
- B2.6 If you want to prevent the TIME button from functioning when buttons are locked, press and hold either the KEYBOARD or AUDIO button until you feel 3 vibrations following an initial vibration.

### B3 Recording

- B3.1 The recording menu has two submenus: Voice Recording and Call Recording. To go to the Voice Recording and Call Recording menus, press 4 or 6, then press 5. Note that starting, pausing, and stopping recordings work without needing to navigate to the recording menu and can be accessed via shortcuts from any mode.
- B3.2 To move to the previous or next file, press 4 or 6.
- B3.3 To play or pause, press 5.

- B3.4 To rewind or fast-forward, press and hold 4 or 6.
- B3.5 To skip 10 seconds backward or forward, press L2 or R2.
- B3.6 To go to the first or last file, press 1 or 7.
- B3.7 To jump backward or forward by 5 files, press 3 or 9.
- B3.8 To return to the upper-level recording menu, press \*.
- B3.9 To start recording, press and hold L4. If Rivo is connected to a smartphone in Audio mode, it will switch to Keyboard mode.
- B3.10 To pause or resume recording, press L4.
- B3.11 To stop recording, press R4. The recorded content is saved sequentially in the Home > Recording > Voice Recording folder.
- B3.12 To delete a recording file, press and hold R1.
- B3.13 To switch between the earphone microphone and the Rivo microphone, press L3.
- B3.14 During recording, pressing the POWER button briefly provides vibration feedback to confirm that recording is in progress.
- B3.15 While playing or pausing a recording file, press L1 to check the creation time of the recording file.
- B3.16 To refresh the recording files list, press and hold L1.
- B3.17 Recording shortcuts involve holding down \* and pressing the corresponding button. These shortcuts can be used regardless of the current mode.

## **B4 Audiobook, DAISY Book**

- B4.1 To move to the previous or next file, press 4 or 6.
- B4.2 To play or pause, press 5.
- B4.3 To rewind or fast-forward, press and hold 4 or 6.
- B4.4 To skip 10 seconds back or forward, press L2 or R2.
- B4.5 To move to the first or last file, press 1 or 7.
- B4.6 To jump 5 files backward or forward, press 3 or 9.
- B4.7 To save a bookmark, press R3 during playback. The playback stops, and a vibration confirms the bookmark.
- B4.8 To go to a bookmark, press L3 during file playback.
- B4.9 To delete a bookmark, press and hold R3 during file playback.
- B4.10 To delete a file, press and hold R1.
- B4.11 To refresh the Audiobook files list, press and hold L1.
- B4.12 To copy Audiobook or DAISY Book files, connect Rivo to a computer via USB, press POWER + 0 to open Rivo's folder, and copy the unzipped DAISY book folder into the Daisy folder.

## **B5 Music**

- B5.1 To move to the previous or next file, press 4 or 6.
- B5.2 To play or pause, press 5.
- B5.3 To rewind or fast-forward, press and hold 4 or 6.
- B5.4 To skip backward or forward by 10 seconds, press L2 or R2.
- B5.5 To move to the first or last file, press 1 or 7.

B5.6 To jump to the previous or next 5th file, press 3 or 9.

B5.7 To delete a file, press and hold R1.

B5.8 To refresh the music list, press and hold L1.

## **B6 Calculator**

B6.1 The number buttons input their corresponding numbers, and the remaining buttons are as follows:

[L1] Addition, [L2] Subtraction, [L3] Multiplication, [L4] Division

[R1] Clear, [R2] Plus/Minus, [R3] Equals, [R4] Parenthesis

[\*] Percentage, [#] Decimal Point

B6.2 After entering the calculation, press R3 to get the result.

B6.3 Press R1 once to delete the current input number, and press R1 twice to clear all.

## **B7 Alarm**

B7.1 To set Alarm mode, press the POWER and TIME buttons simultaneously.

B7.2 To set an alarm, enter the 4-digit time (hour and minute) and press R3. For example, for 12:00 AM, enter 0000; for 3:20 PM, enter 1520.

B7.3 To set a timer, enter any duration from 1 to 999 minutes and press R3 to start the timer.

B7.4 To check the remaining time, press L1.

B7.5 Press R1 to delete the last entered digit, or press and hold R1 to delete all entered digits.

B7.6 To cancel the set alarm or timer, press and hold R1.

B7.7 To stop the sound of the expiring alarm or timer, press the POWER button.

## **B8 Date**

B8.1 To check the date, press the TIME button quickly twice. The first press announces the date without the year (e.g., "Monday, August 1"), and pressing it again includes the year (e.g., "Monday, January 1, 2024").

B8.2 To stop the date announcement, press the POWER button.

B8.3 Date checking is available even when the buttons are locked.

## **B9 Braille Dictionary**

B9.1 To move between braille topics, press 2 or 8, then press 5 to select.

B9.2 To move to the previous or next item, press 4 or 6. Items can be braille topics, chapters, sections, or entries in sections. Currently, Unified English Braille is the only topic.

B9.3 To go to the first or last item, press 1 or 7.

B9.4 To jump backward or forward by 5 items, press 3 or 9.

B9.5 To move to the upper-level item, press \*.

B9.6 To check the basic braille information after selecting an item, press 5.

B9.7 To check the current braille briefly, press R4 repeatedly.

B9.8 To check the general description of the current braille, press R3 repeatedly.

B9.9 To check additional details of the current braille, press R2 repeatedly.

- B9.10 To check the category of the current braille, press R1 repeatedly.
- B9.11 To search for braille, press R3 + L3, then input the braille dots.
- B9.12 To confirm the number of search results, enter the braille dots and press R3.
- B9.13 To navigate through search results, use the methods described above.
- B9.14 To return to braille navigation mode, press \*.
- B9.15 Braille dots can be entered as follows:
 

[L1] 1 2	[1] 1	[2] 4	[3] 4 5
[L2] 1 3	[4] 2	[5] 5	[6] 4 6
[L3] 1 2 3	[7] 3	[8] 6	[9] 4 5 6
[L4] 2 3		[#] 5 6	
- B9.16 Quick Braille can be toggled on or off by pressing R3 + 1 or navigating to Rivo Home > Settings > Configuration > Quick Braille Input. The default setting is "on."
- B9.17 When Quick Braille is off, you can input braille dots by holding down one dot and then pressing the remaining dots individually, in any order. For instance, to input the braille dots 1, 3, 4, and 6, hold down dot 1, then press dots 3, 4, and 6 sequentially, and finally release dot 1. Alternatively, you can press L2 and 6 simultaneously and then release.
- B9.18 When Quick Braille is on, you can input braille efficiently. For example, to type the letters "f" and "g," hold down L1 and press and release 2 and 3 in succession. When Quick Braille is off, however, you can press L1 and 2 simultaneously, release them, and then press L1 and 3 simultaneously and release.
- B9.19 To delete braille letters, press R1 to remove them one by one or hold R1 to delete all input.

## **B10 Settings**

- B10.1 To navigate through settings menu, press 4 or 6 to move and then press 5 to select.
- B10.2 To go to the first or last item, press 1 or 7.
- B10.3 To return to the upper-level menu, press \*.
- B10.4 To set the time, go to Settings > Time. Then, enter the 4-digit time in hours and minutes or the 6-digit time in hours, minutes, and seconds, then press R3. For example, for 12:30 AM, enter 0, 0, 3, 0, R3, and for 2:30:05 PM, enter 1, 4, 3, 0, 0, 5, R3.
- B10.5 To set the date, go to Settings > Date. Then, enter the 8-digit date in the order of year, month, and day, then press R3. For example, for October 09, 2024, enter 2, 0, 2, 4, 1, 0, 0, 9, R3.
- B10.6 To set the alphabet input method, go to Settings > Configuration > Input Method. Then press 4 or 6 to select between Rivo or ABC, and press 5 to set. The Rivo input method is set by default.
- B10.7 To set the type of the current device, go to Settings > Configuration > Device Type. Then press 4 or 6 to select between iPhone/iPad, Apple Watch, Apple TV, and Android TalkBack, then press 5 to set. When paired with an iPhone, iPad, or Apple Watch, the device type is automatically set; otherwise, Android TalkBack is set by default. Ensure the correct device type is set manually if needed.
- B10.8 To pair Rivo with a device, go to Settings > Manage Connection. Select Pairing mode and press 5. There are three vibrations and a voice prompt saying, "selected, pairing mode." Rivo will remain in pairing mode for 5 minutes. Then open your device's Bluetooth settings, select Rivo3S, and double-tap the screen to pair and connect.
- B10.9 To toggle Rivo's voice feedback, go to Settings > Configuration. Select Voice Feedback and press 5 to switch the setting on or off. Voice feedback is enabled by default. When voice feedback is on, feedback is provided primarily via voice rather than vibration; when off, vibration is primarily used rather than voice.
- B10.10 To initialize Rivo data, go to Settings > Configuration > Initialize. Choose between Reset, which only clears device pairing information, or Factory Reset, which deletes all settings and data.

## **B11 Games**

- B11.1 No games are currently available in versions other than Korean, but one or more are planned to be added. To navigate through the games, press 4 or 6 to move, and then press 5 to select.
- B11.2 After launching each game, press 4 or 6 to check the rules and how to play.
- B11.3 To return to the upper menu, press \*.

## **B12 Using a Wireless Earphone**

- B12.1 A wireless earphone can be connected to Rivo as follows. When connected, Rivo will disconnect the audio connection with the smartphone.
- B12.2 To pair a wireless earphone, press and hold \* + L3. The blue LED will blink, accompanied by three vibrations. To cancel pairing, press the POWER button.
- B12.3 To connect the wireless earphone, press \* + L3.
- B12.4 To disconnect the wireless earphone, press \* + R3.
- B12.5 To delete the wireless earphone, press and hold \* + R3.
- B12.6 When a new wireless earphone is paired, the previous one will automatically be deleted.
- B12.7 When the KEYBOARD button is pressed, Rivo will switch to Keyboard mode without changing the wireless earphone connection.
- B12.8 When the AUDIO button is pressed, Rivo will disconnect the wireless earphone and switch to the Audio mode.

## C. Remote Mode

### C1 Bluetooth Pairing, Keyboard Mode, Audio Mode

- C1.1 When turned on for the first time, Rivo is set to Home mode with Bluetooth turned off.
- C1.2 To pair Rivo with a device, turn on Bluetooth on the device.
- C1.3 To set Rivo to pairing mode, press and hold both the KEYBOARD and AUDIO buttons simultaneously. The blue LED will start blinking, accompanied by three vibrations. To cancel pairing mode, briefly press the POWER button.
- C1.4 Select "Rivo3S" from the Bluetooth settings on your device and double-tap the screen to pair and connect.
- C1.5 When you press the KEYBOARD button, Rivo vibrates once and switches to Keyboard mode. In this mode, you can use Rivo while listening to the device sound through the device's speaker.
- C1.6 When you press the AUDIO button, Rivo vibrates once and switches to Audio mode. In this mode, you can use Rivo while listening to the device sound through Rivo's speaker.

### C2 Button Lock and Status Check

- C2.1 Press and hold KEYBOARD until there are 2 vibrations to lock the buttons and disconnect the device.
- C2.2 When the buttons are locked, press and hold KEYBOARD until there is a vibration to unlock the buttons, connect Rivo to the device, and switch to Keyboard mode.
- C2.3 Press S3 + KEYBOARD to unlock the buttons, connect in Keyboard mode, and switch to Home mode.
- C2.4 Press and hold AUDIO until there are 2 vibrations to lock the buttons in Audio mode.
- C2.5 When the buttons are locked, press and hold KEYBOARD until there is a vibration to unlock the buttons, connect Rivo to the device, and switch to Audio mode.
- C2.6 Press S3 + AUDIO to unlock the buttons, connect in Audio mode, and switch to Home mode.
- C2.7 Press KEYBOARD and AUDIO simultaneously to unlock the buttons and switch to Call mode.
- C2.8 Press S3 + POWER to unlock the buttons, disconnect, and switch to Home mode.
- C2.9 Press POWER briefly to check the status of Rivo. When connected, there is a vibration, and when disconnected, there are 2 vibrations. In each case, if the buttons are locked, two short vibrations follow immediately.

### C3 Bluetooth Connection, Device Management

- C3.1 When Rivo is turned on, it automatically connects in Keyboard mode to the last connected device.
- C3.2 To save the currently connected device as one of the devices numbered 1 to 9, press L3 + 0, device number, R3. For example, press L3 + 0, 1, R3 to save the current device as device 1.
- C3.3 There are no duplicate devices saved in Rivo. If an already saved device is saved under a new number, it will only be stored under the new number.
- C3.4 To connect Rivo to one of the stored devices, press L3 + 0, device number. For example, press L3 + 0, 1 to connect to device 1.
- C3.5 To reconnect Rivo to the last connected device, press L3 + 0, 0. Device 0 always refers to the device Rivo was last connected to.
- C3.6 Any configuration changes, including device connection information, are automatically saved.
- C3.7 To disconnect or cancel the current connection request in progress, press L3 + 0, \*.
- C3.8 To delete one of the devices saved in Rivo, press L3 + 0, device number, R1. For example, press L3 + 0, 1, R1 to delete device 1.

## **C4 Media Mode and Media Shortcuts**

- C4.1 To switch to Media mode, press L3 + \*.
- C4.2 To play or pause music, press 5.
- C4.3 To rewind or fast-forward, press and hold 4 or 6.
- C4.4 To rewind or fast forward the track, press and hold 4 or 6.
- C4.5 To mute audio, press 9.
- C4.6 To increase or decrease the audio volume, press 2 or 8, or press S1 or S2.
- C4.7 Media shortcuts are to hold down \* and press the corresponding button, regardless of the current mode.

## **C5 Call Mode and Call Shortcuts**

- C5.1 To switch to Call mode, press KEYBOARD and AUDIO simultaneously.
- C5.2 To enter a phone number, press the corresponding number buttons. A phone number can contain up to 20 digits.
- C5.3 To send touch tones during a call, press the corresponding number buttons.
- C5.4 To make or answer a call, press L1. You can also press L1 to redial the last called number, answer an incoming call while on another call, or switch between two active calls.
- C5.5 To end the current call, press R1. You can also press R1 to end the current call and answer an incoming one, reject an incoming call when not on a call, or press and hold R1 to reject an incoming call while already on a call. Additionally, press R1 to delete the last entered digit one at a time, or press and hold it to clear all entered digits.
- C5.6 To toggle the microphone on or off during a call, press L2. A single vibration indicates the microphone is turned on, while two vibrations indicate it is turned off.
- C5.7 To switch between the Rivo microphone and the earphone microphone, press L3. A single vibration indicates the Rivo microphone is selected, while two vibrations indicate the earphone microphone is selected.
- C5.8 To toggle the speakerphone on or off, press R2. A single vibration indicates the speakerphone is on, while two vibrations indicate it is off.
- C5.9 To switch the audio between Rivo and the smartphone during a call, press R3. A single vibration indicates the audio is set to Rivo, while two vibrations indicate it is set to the smartphone. Additionally, when a call comes in, press R3 to answer the call and switch the audio at the same time, to dial touch tones using Rivo while talking on the smartphone or a Bluetooth earphone.
- C5.10 To start recording during a call, press and hold L4 until there is a vibration. Additionally, when a call comes in, press and hold L4 in Phone mode or Home mode to answer the call and start recording simultaneously. In Audio mode, press and hold \* + L4 to start recording. Note that it doesn't work in Keyboard mode.
- C5.11 To pause or resume call recording, press L4 briefly.
- C5.12 To stop call recording, press R4. The recorded content is saved sequentially in the Home > Recording > Call Recording.
- C5.13 To increase or decrease the call volume, press S1 or S2.
- C5.14 To enable both ringtone and vibration to ring simultaneously, press R4 + R2.
- C5.15 To set only the ringtone to ring, press R4 + R2, R2.
- C5.16 To stop the ringtone or vibration when a call comes in, press S1 or S2.
- C5.17 To use the smartphone during a call, press AUDIO to switch Rivo to Audio mode.
- C5.18 To use call shortcuts, press and hold \* while pressing the corresponding button, regardless of the current mode.
- C5.19 Call shortcuts for answering and ending calls work even when the buttons are locked. However, the shortcut to answer and record a call simultaneously works when buttons are locked in Audio mode but not in Keyboard mode.
- C5.20 To answer or end a call during an incoming call or active call, quickly press the KEYBOARD button or AUDIO button twice.

## **C6 Keyboard Settings**

- C6.1 Up to two languages can be set in Rivo at a time: one mandatory language assigned to L3 and one optional language assigned to L4.
- C6.2 On an iPhone, ensure that the desired keyboards are added in Settings > General > Keyboard > Keyboards. Also, make sure the correct hardware keyboard type is selected for each keyboard in Settings > General > Keyboard > Hardware Keyboard.
- C6.3 The mandatory language at L3 can be any Roman alphabet language supported by Rivo, with the initial factory setting set to English.
- C6.4 To set a language at L3, press L3 + L1, 6, followed by the language code. For example, the language code for English is 1 9, so to set English at L3, press L3 + L1, 6, 1, 9.
- C6.5 To switch Rivo to L3 language typing mode, press L3.
- C6.6 The optional language at L4 can be any language supported by Rivo, with the initial factory setting set to none.
- C6.7 To set a language at L4, press L3 + L1, L4, 6, followed by the language code.
- C6.8 To unset the language at L4, press L3 + L1, L4, R1.
- C6.9 To switch Rivo to L4 language typing mode, press L4. If no language is set at L4, pressing L4 sets Rivo to numeric input mode. If a language is set at L4, press L4 + R4 to switch to numeric input mode.
- C6.10 This manual provides general information about typing letters, primarily focusing on common English.
- C6.11 For details on all the languages supported by Rivo and the necessary settings, refer to "Typing with Rivo."
- C6.12 Currently, Rivo supports the following languages on Apple devices: 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, and Ukrainian.
- C6.13 On Android, Rivo currently supports English, Japanese, and Korean.

## **C7 Language Synchronization When Typing Text**

- C7.1 If your phone has multiple languages or keyboards set up, ensure that the phone's current input language matches Rivo's current input language when entering text.
- C7.2 To type text, press L3 or L4 depending on what you want to input. Basically, Rivo attempts to change the language or keyboard on the phone as needed. However, if the letters entered on the phone are not as expected, press L3 or L4 again to synchronize the phone's input language with Rivo's. For example, if L3 is set to English and L4 to another language, and pressing L3 to type in English results in a different language being entered on the phone, press L3 repeatedly until the phone's language changes to English. Similarly, if pressing L4 to type in the set language results in a different language being entered on the phone, press L4 repeatedly until the phone's language changes to the correct one.
- C7.3 The default behavior of switching languages by pressing L3 or L4 repeatedly can be disabled. To change the language switching setting, press and hold L3 + L4. One vibration indicates that language switching is enabled, while two vibrations indicate it is disabled.
- C7.4 When language switching is disabled, the language or keyboard on the phone is not changed when L3 or L4 is pressed more than once.
- C7.5 If needed, you can manually switch the language or keyboard on the phone by pressing L3 + L4, regardless of whether the language switching setting is enabled or disabled.

## C8 Typing Text

- C8.1 Letters in each language are assigned to numeric buttons as described in the corresponding language section of the "Typing with Rivo" document.
- C8.2 To type letters with diacritic accent marks, press the combination R2 + x while Rivo is in language typing mode, as explained in the respective language section of the "Typing with Rivo" document.
- C8.3 Languages that use the Roman alphabet can be typed using either the Rivo Alphabet Layout or the ABC Alphabet Layout, as described in the respective sections.
- C8.4 The Rivo alphabet layout is recommended for efficiency when typing letters, consistency in typing letters with diacritics and command mnemonics.
- C8.5 To enter text on an iPhone, select the text field you want to input into and press 5 to activate it. Note that Quick Nav is temporarily turned off, but it will automatically turn back on once VoiceOver focus moves away from the text field. Alternatively, instead of activating the text field, you can manually turn off Quick Nav by pressing R1 + 1. In this case, after entering text, you need to press R1 + 1 again to turn Quick Nav back on. This alternative method can be useful when the current text field is not activated, or when you need to move the VoiceOver cursor to read the screen while typing in a text field.
- C8.6 To type a letter on a button with multiple assigned letters, press the button repeatedly until the desired letter is entered.
- C8.7 To type another letter assigned to the same button after entering one, press L2 or R2. For example, to type www, press 1, 1, R2, R2, 1, 1.
- C8.8 Press L1 to type a tab or jump to the next text field.
- C8.9 Press R4 + L1, L1 to jump to the previous text field by typing a backtab.
- C8.10 Press R1 to delete a letter backward (backspace).
- C8.11 Press R4 + R1 to delete a letter forward (delete).
- C8.12 Press R3 to type an enter, and press R4 + R3 to type an enter with the option modifier. Depending on the app, one of these may start a new line, while the other triggers an action, such as sending a message.
- C8.13 Press # to type a space.
- C8.14 To switch Rivo to numeric mode, press L4 when no language is assigned to L4, and press L4 + R4 when a language is assigned to L4.
- C8.15 Numbers can be entered by pressing the corresponding buttons in numeric mode. Alternatively, numbers can be entered using numeric shortcuts in any mode without switching to numeric mode by holding down L4 and pressing the numeric buttons. These numeric shortcuts are convenient when typing small numbers mixed with letters or when entering a passcode while in Navigation mode.
- C8.16 A backspace or an enter can be entered by pressing L4 + R1 or R3.
- C8.17 The symbols \* and # can also be entered by pressing L4 + \* or #.
- C8.18 To type capital letters, set Rivo to sentence mode or caps lock mode. In sentence mode, only the first letter of the sentence is capitalized. In caps lock mode, all subsequent letters are capitalized. Uppercase versions of letters with diacritics can also be entered in these modes.
- C8.19 To set the lowercase mode for the language assigned to L3, press L3.
- C8.20 To set the sentence mode for the language assigned to L3, press R1 + L3.
- C8.21 To set the uppercase mode for the language assigned to L3, press R1 + L3, L3.
- C8.22 To set the lowercase mode for the language assigned to L4, press L4.
- C8.23 To set the sentence mode for the language assigned to L4, press R1 + L4.
- C8.24 To set the uppercase mode for the language assigned to L4, press R1 + L4, L4.

- C8.25 Note that some languages available for L4 assignment may not distinguish between lowercase and uppercase letters.
- C8.26 Symbols are entered in Symbol mode using the Rivo Symbols Layout, described in the corresponding section.
- C8.27 To switch Rivo to symbol mode while in any text mode, press \*. Then, type a symbol just like typing a letter using multitap.
- C8.28 After typing a symbol, Rivo automatically returns to the previous text mode.
- C8.29 The period at 0 and the number sign at # are the only symbols assigned to the buttons. If you press \* and then press one of these buttons, the corresponding symbol is entered, and Rivo immediately switches back to the previous typing mode.
- C8.30 Other buttons have more than one symbol. Therefore, multitap selection is required to type a symbol assigned to these buttons. After the correct symbol is entered, you can finish and return to the previous typing mode by pressing another button, including L2 and R2.
- C8.31 Symbols assigned to \* can be entered by pressing \* and then L2 or R2.
- C8.32 If you do not want to type a symbol after pressing \*, press R1 to cancel symbol mode and return to the previous text mode.
- C8.33 To type a letter in the same button right after typing a symbol in a button, press L2 or R2. For example, to type @i, press \*, 6, L2.
- C8.34 Additional symbols may be available depending on the current language, as described in the corresponding language section of the "Typing with Rivo" document. These symbols are entered using the combination \*, R2 + x.
- C8.35 To show or hide the on-screen keyboard on an iPhone, press L4 + R4, R4.

## **C9 Editing Text**

- C9.1 To edit text on an iPhone, select the text field you want to edit and press 5 to activate it. Afterward, set Rivo to a text typing mode to make edits.
- C9.2 To edit text, press the combination R4 + x while Rivo is in a text typing mode.
- C9.3 To move the cursor letter by letter, press R4 + 4 or 6.
- C9.4 To move the cursor word by word, press R4 + L2 or R2.
- C9.5 To move the cursor to the beginning or end of the current line on the screen, press R4 + 1 or 7.
- C9.6 To move the cursor line by line, press R4 + 2 or 8.
- C9.7 To delete the next letter, press R4 + R1. Note that to delete the previous letter, press R1.
- C9.8 To select a text block, first move the cursor to the starting position. While holding down R4, press 5 to mark the starting point of the text block. Then, move the cursor to the end position and release R4 to complete the selection.
- C9.9 To read the currently selected text block on an iPhone, press R4 + 3. While holding down R4 during text block selection, press just 3 to check the text block selected so far.
- C9.10 To select the entire text in the current text field, press R4 + 9.
- C9.11 To cut or copy the selected text block, press R4 + \* or 0.
- C9.12 To paste the cut or copied text block, press R4 + #.
- C9.13 Additional edit commands are activated by pressing R4 + L1, followed by the corresponding button as below:
- C9.14 To move the cursor to the top or bottom of the current text field, press R4 + L1, 3 or 9.
- C9.15 To delete a letter backward or forward, press R4 + L1, 4 or 6.
- C9.16 To delete a word backward or forward, press R4 + L1, L2 or R2.
- C9.17 To delete all letters from the current cursor position to the beginning or end of the current line on the screen, press R4 + L1, 1 or 7.

C9.18 To delete all letters in the current line on the screen, press R4 + L1, 5.

C9.19 To undo or redo, press R4 + L1, \* or #.

## C10 Language Settings

C10.1 By default, English is assigned to L3. The language code is EN, represented by the numeric 1, 9. To reassign English to L3, press L3 + L1, 6, 1, 9.

C10.2 By default, no language is assigned to L4.

C10.3 To assign other languages to L3 or L4, refer to the "Typing with Rivo" document.

C10.4 By default, the Rivo alphabet layout is used when typing alphabet letters, which can be set by pressing L3 + L1, 4, 1.

C10.5 To switch to the ABC alphabet layout, press L3 + L1, 4, 2.

C10.6 To type English alphabet letters, make sure the iPhone or iPad has an English keyboard in Settings > General > Keyboard > Keyboards. Additionally, in Settings > General > Keyboard > Hardware Keyboard, make sure that an appropriate hardware type, such as Automatic, U.S., Australian English, or Canadian English, is selected for the English keyboard.

C10.7 Descriptions of all supported languages can be found in the respective language sections of the "Typing with Rivo" document.

## C11 Rivo Alphabet Layout

To set the Rivo alphabet layout, press L3 + L1, 4, 1. This is the default layout and allows much faster typing than the ABC layout. The alphabet layout is as follows:

[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

## C12 ABC Alphabet Layout

To set the ABC alphabet layout, press L3 + L1, 4, 2. The layout is as follows:

[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

## C13 Rivo Symbols Layout

Common keyboard symbols are assigned to numeric buttons as follows:

[1] ! / \	[2] ? ~ `	[3] - +
[4] ' < [	[5] " = _	[6] @ ( {
[7] ; > ]	[8] : & \$	[9] , ) }
[*] * % ^	[0] .	[#] #

## D. iPhone/iPad VoiceOver

### D1 VoiceOver Settings

- D1.1 Go to Settings > Accessibility > VoiceOver to turn on VoiceOver and adjust various options.
- D1.2 To quickly toggle VoiceOver on or off, go to Settings > Accessibility > Accessibility Shortcut and select VoiceOver. Then, triple-click the home button (or the power button on iPhones and iPads without a home button) will turn VoiceOver on or off.

### D2 Rivo Settings for Using VoiceOver

- D2.1 When Rivo is paired with an iPhone/iPad, it automatically switches to VoiceOver mode.
- D2.2 To manually set Rivo to VoiceOver mode, go to Rivo Home > Settings > Configuration > Connected Device, and choose iPhone and iPad.

### D3 Quick Nav Settings on iPhone/iPad

- D3.1 To use Rivo with an iPhone/iPad, the Quick Nav setting on the iPhone/iPad should be turned on. If Quick Nav is off, some commands may not function correctly.
- D3.2 To toggle Quick Nav on the iPhone/iPad, press R1 + 1.
- D3.3 When you activate a text field by pressing 5 to start typing, Quick Nav temporarily turns off but automatically reactivates once you navigate out of the text field.

### D4 VoiceOver Navigation Mode

- D4.1 To set Rivo to Navigation mode, press R4.
- D4.2 To move to the previous or next item, press 4 or 6.
- D4.3 To move continuously to the previous or next item, press and hold 4 or 6.
- D4.4 To jump to the previous or next 5th item, press L1 + 4 or 6.
- D4.5 To move to the previous or next container, press L1 + 2 or 8.
- D4.6 To jump to the first or last item, press 1 or 7.
- D4.7 To scroll vertically, press 3 or 9.
- D4.8 To scroll horizontally through pages, press L2 or R2.
- D4.9 To activate the current item, press 5.
- D4.10 To perform a pressure touch on the current item, press L1 + 5.
- D4.11 To press the Home button on an iPhone, press 0.
- D4.12 To invoke Siri, on an iPhone with a Home button, hold 0. On an iPhone without a Home button, hold L1 + R4. Alternatively, press R1 + 3, which switches Rivo to Audio mode and invokes Siri using Rivo's microphone.
- D4.13 To exit Siri, press 0.
- D4.14 To switch between the earphone microphone and the Rivo microphone for Siri, press \* + L3. A single vibration indicates the Rivo microphone is selected.
- D4.15 To open the app switcher, press 0 quickly twice.
- D4.16 To select an app in the app switcher, press 4 or 6.
- D4.17 To switch to the selected app, press 5, and to close it, press 9.

- D4.18 To close the app switcher, press 0. If the previous app is not closed, it will return to the app; otherwise, it will return to the Home screen.
- D4.19 To toggle VoiceOver on or off, on an iPhone with a Home button, press 0 quickly three times. On an iPhone without a Home button, hold L1 and press R4 quickly three times. This requires VoiceOver to be selected under Settings > General > Accessibility > Accessibility Shortcut.
- D4.20 To select the next rotor, press #. To select the previous rotor, press # + \*. Right after selecting a rotor, you can press only \*.
- D4.21 To change the value of the currently selected rotor, press 2 or 8.
- D4.22 To go back to the previous menu or close a popup, press \*. Right after selecting a rotor, press R4 first, then press \*.
- D4.23 To access the status bar, press L1. Then, press 4 or 6 to navigate the status bar.
- D4.24 To leave the status bar and return to the previous position, press L1.
- D4.25 To open the Notification Center, press L1 + 3 or L1, 3.
- D4.26 To open the Control Center, press L1 + 9 or L1, 9.
- D4.27 To close the Notification Center or Control Center, press \*.
- D4.28 To continuously read items from the current position to the end, press R1.
- D4.29 To pause or resume reading, press R3. If Rivo is not in Navigation mode, press L1 + R3.
- D4.30 To open the Spotlight search textbox, press L1 + R1, 3. On the Home screen, just press 3.
- D4.31 To turn the screen on or off, press L1 + R4.
- D4.32 To toggle the dock on iPad, press L1 + 0.
- D4.33 To play or pause the currently active media, press L1 + R1, R1.
- D4.34 To answer an incoming call or end the current call, press L1 + R1, R1. While on a call, the call is treated as the currently active media.
- D4.35 To double-tap and hold on the current item, press and hold L1 + R1, 5. For example, to record audio in the iPhone Messages app or send voice messages in WhatsApp, hold L1 + R1, 5 until done.
- D4.36 To open the Item Chooser for items on the current screen, press L1 + R1, 6.
- D4.37 To edit the label of the current item, press L1 + R1, 1. Deleting the entire text of the label reverts it to its default value.
- D4.38 To search the current screen, press L1 + R1, 7, switch Rivo to a text typing mode, enter the search text, then press R3. To return to Navigation mode, press R4.
- D4.39 To navigate through search results, press L1 + R1, 8 or 9 for the previous or next match.
- D4.40 To toggle Quick Nav on iPhone, press R1 + 1.
- D4.41 To read the current line, press R1 + 2.
- D4.42 To read details of the current word, press R1 + 5.
- D4.43 To read the current word as a whole, by character, or spelled out, press R1 + 8.
- D4.44 To toggle VoiceOver speech on or off, press R1 + R3.
- D4.45 To toggle the screen curtain on or off, press R1 + R4.
- D4.46 To copy the last spoken text to the clipboard, press R1 + 7.
- D4.47 To switch to the previous or next app without opening the app switcher, press L1 + L2 or R2.
- D4.48 To move to the previous or next split region on the current screen, press R1 + L2 or R2.
- D4.49 To open the VoiceOver Quick Settings, press R1 + L1, 1. It opens Settings > Accessibility > VoiceOver > Quick Settings.
- D4.50 To open the VoiceOver Settings, press R1 + L1, 7. It opens Settings > Accessibility > VoiceOver.
- D4.51 To turn on VoiceOver Help, press R1 + L1, \*. To turn it off, press \*.
- D4.52 Navigation commands combined with L1 or R1 can be used even if Rivo is not in Navigation mode.

## E. More Apple Devices

### E1 Apple Watch

- E1.1 When Rivo is paired with an Apple Watch, it automatically switches to Apple Watch mode.
- E1.2 To manually set Rivo to Apple Watch mode, go to Rivo Home > Settings > Configuration > Connected Device, select Apple Watch, and press 5 to set.
- E1.3 Rivo supports the same commands on the Apple Watch as it does on the iPhone, though some commands may not work.

### E2 Apple TV

- E2.1 To set Rivo to Apple TV mode after pairing with an Apple TV, go to Rivo Home > Settings > Configuration > Connected Device, and select Apple TV.
- E2.2 Press R4 to set to VoiceOver navigation mode.
- E2.3 Press R4 twice quickly to set to the default Apple TV remote navigation mode, which mimics Apple TV remote actions with VoiceOver off. A vibration confirms when this mode is set.
- E2.4 In VoiceOver navigation mode, move left or right by pressing 4 or 6. In Apple TV remote navigation mode, move up, down, left, or right by pressing 2, 8, 4, or 6.
- E2.5 Press \* or 0 to move to the upper menu.
- E2.6 Press and hold 0 to go directly to the home screen.
- E2.7 Press R1 + \* to toggle between VoiceOver navigation and Apple TV remote navigation method.
- E2.8 Press R1 + # to toggle synchronization of the default Apple TV cursor and the VoiceOver cursor on or off. It's recommended to keep synchronization on.

### E3 iPhone/iPad Zoom

- E3.1 Go to Settings > Accessibility > Zoom and turn on Zoom.
- E3.2 Go to Keyboard Shortcuts to turn off Resize Zoom Window and Temporarily Toggle Zoom, and turn on all other options. If Resize Zoom Window is not listed, go to Zoom Region to select Window Zoom instead of Full Screen Zoom. Then, go back to Keyboard Shortcuts to turn off Resize Zoom Window. Then, you may go to Zoom Region again to select Full Screen Zoom.
- E3.3 Press S3 to set to Home mode, then go to Settings > Configuration to turn on Apple Zoom.
- E3.4 To set to Zoom mode, quickly press R4 twice. A single vibration will confirm the mode is set.
- E3.5 To toggle screen zoom, press 5.
- E3.6 To adjust the zoom level, press 3 or 9.
- E3.7 To move the zoom window, press 2, 4, 6, or 8.
- E3.8 To switch the zoom region between Full Screen Zoom and Window Zoom, press 7.
- E3.9 To set to VoiceOver Navigation mode, press R4 once.

## F. Android TalkBack

### F1 TalkBack Settings

- F1.1 To use TalkBack, install the "Android Accessibility Suite" app from the Play Store.
- F1.2 Turn on TalkBack in Settings > Accessibility > TalkBack.
- F1.3 Configure various TalkBack options under Settings > Accessibility > TalkBack > Settings.
- F1.4 Ensure that the "Default Keymap" is selected in Settings > Accessibility > TalkBack > Settings > Advanced settings > Keyboard shortcuts > Choose a keymap.

### F2 Rivo Settings for Using TalkBack

- F2.1 When paired with an Android device, Rivo automatically switches to TalkBack mode.
- F2.2 To manually set Rivo to TalkBack mode, go to Rivo Home Menu > Settings > Configuration > Connected Device and select Android TalkBack.

### F3 TalkBack Navigation Mode

- F3.1 To set Rivo to Navigation mode, press R4.
- F3.2 To move to the previous or next item, press 4 or 6.
- F3.3 To move continuously to the previous or next item, press and hold 4 or 6.
- F3.4 To jump to the previous or next 5th item, press L1 + 4 or 6.
- F3.5 To move up or down to an item, press R4 + 2 or R4 + 8.
- F3.6 To jump to the first or last item, press 1 or 7.
- F3.7 To scroll vertically, press 3 or 9.
- F3.8 To scroll horizontally through pages, press L2 or R2.
- F3.9 To click the current item, press 5.
- F3.10 To press the Android Home button, press 0.
- F3.11 To invoke voice recognition, hold L1 + R4. Alternatively, press R1 + 3, which switches Rivo to Audio mode and invokes voice recognition using Rivo's microphone.
- F3.12 To exit voice recognition, press 0.
- F3.13 To switch between the earphone microphone and the Rivo microphone for voice recognition, press \* + L3. A single vibration confirms the Rivo microphone is selected.
- F3.14 To use Circle to Search, press and hold 0.
- F3.15 To close Circle to Search, press 0 or \* briefly.
- F3.16 To open the recent apps list, press R4 + 0, and to close it, press 0.
- F3.17 To select an app in the recent apps list, hold R4 and press 4 or 6.
- F3.18 To switch to the selected app, press 5, and to close it from the recent apps list, press R4 + R1.
- F3.19 To close the selected app from the recent apps list, press # to open the TalkBack menu and select Actions, then press 5. Next, select Close from the Actions menu and press 5.
- F3.20 To go back to the previous menu or close a popup, press \*.
- F3.21 To navigate between the status bar, navigation bar, and main window, press L1.

- F3.22 To open the Notification Center or Quick Settings, press L1 + 3. To close it, press \*.
- F3.23 To stop screen reading, press R3. When Rivo is not in Navigation mode, press L1 + R3.
- F3.24 To turn the screen on or off, press L1 + R4.
- F3.25 To double-tap and hold the current item, press L1 + 5.
- F3.26 To play or pause the currently active media, press L1 + R1, R1.
- F3.27 To answer an incoming call or end the current call, press L1 + R1, R1. During a call or incoming call, the call is treated as the currently active media.
- F3.28 To search the current screen, press L1 + R1, 7, switch Rivo to a text typing mode, enter the search text, then press R3. To return to Navigation mode, press R4, and to close the search screen, press \*.
- F3.29 To show the TalkBack menu on the screen, press #.
- F3.30 To read items successively starting from the next, press R1.
- F3.31 To read the previous or next letter, press R1 + 4 or 6.
- F3.32 To read the previous or next word, press R1 + L2 or R2.
- F3.33 To select the previous or next reading control, press R1 + \* or #.
- F3.34 To change the value of the currently selected reading control, press R1 + 2 or 8.
- F3.35 To toggle TalkBack speech, press R1 + R3.
- F3.36 To open the Apps folder, press L1 + 0.
- F3.37 To show the action menu for the currently selected item, press R1 + 0.
- F3.38 Navigation commands combined with L1 or R1 can be used even if Rivo is not in Navigation mode.
- F3.39 Rivo provides the following commands for native Android navigation features. Press and hold R4, then press L1 for Tab, L2 for Backtab, 2 for Up, 8 for Down, 4 for Left, 6 for Right, 5 for Enter, 1 for Home, 7 for End, 3 for Page Up, 9 for Page Down, R1 for Backspace, R3 for Enter, # for Space, and \* for Esc.