OUR BRAILLE

User Guide

22nd December 2020
Version 1.1

Revision History

Rev.	Date	Description of Changes	Author
0.0	8th December 2020	Created	
0.1	15th December 2020	Internal revisions	
0.2	18th December 2020	Internal revisions	
0.3	20th December 2020	Internal revisions	
1.0	22nd December 2020	Public Release	

1   Introduction

Our Braille is an app that works with the Orbit Writer and enables blind and visually impaired users to conveniently enter text in braille on their Android device and control it completely without having to use touch gestures. It works in conjunction with the Talkback app to provide speech output.

Our Braille connects with the Orbit Writer via Bluetooth and allows the user to perform all actions including the following:

- Navigate to different screens and perform various actions using key commands
- Open and use various installed apps.
- Make phone calls and send text messages using various apps.
- Type in braille in languages including English, Hindi, Marathi, Nepali and many others.

The Orbit Writer is easy to pair with a cellphone or laptop and was designed with user-friendliness in mind. By connecting it with Our Braille, it is now possible for people who are visually impaired to use a touchscreen device with ease.

2   Download and install

To get Our Braille, go to the Google Play Store and install it using one of the following options:

Option 1: Use this direct link to the Our Braille app
- Next select "Install"
- Choose the device to install the app on and select "Install"

Option 2: Through the App Store
- Open the Play Store app on your Android device
- Search for "Our Braille"
- Select "Our Braille" from the search results and select "Install"

3   Connecting the Orbit Writer

Before turning on Our Braille, it is necessary to turn on TalkBack. Here is a link to instructions for this.

To turn on Our Braille, follow the steps below:

- Open the Settings app
- Open Accessibility
- Go to Installed services
- Choose Our Braille, it will open its settings page
- On the settings page, turn on Our Braille
- Go back to Settings

- Select Bluetooth settings
- Turn on Bluetooth
- Select the Orbit Writer from the list of Bluetooth devices
    - If the Orbit Writer isn't listed, first make sure it is in pairing mode
    - Then select "Search for devices"
- For detailed instructions on connecting, refer to the Orbit Writer documentation. Here is a link to the user guide.

4 Basic Navigation Commands

The following is a list of basic navigation commands available in Our Braille:

Function	Keys
Back	Space + Dots 1 2 (b)
Home screen	Space + Dots 1 2 5 (h)
Our Braille help	Space + Dots 1 2 3
Notifications	Space + Dots 4 6
Recent apps	Space + Dots 1 2 3 5 (r)
Switch between literary braille and computer braille	Space + Dots 1 2 4 5 (g)
Enter/exit on-screen search	Space + Dots 3 4
Enter (in Edit field)	Space + Dot 8
Backspace (in Edit field)	Space + Dot 7
Next item	Right Arrow
Activate current focused element	Select button
First item on page	Dot 7 + Up
Last item on page	Dot 7 + Down
To previous heading, landmark, table, focusable item, etc.	Left Arrow
Select and deselect Checkbox	Select
Open combo box	Select
Browse/select options of combo boxes	Select
Select multiple options from combo boxes	Select
Toggle selection of radio button	Select

5 Entering and Editing Text

To use the Orbit Writer as a keyboard with your Android device, it is necessary to enable it as an input method and then select it. Android allows the use of only one input method at a time. Therefore, when you select the Orbit Writer, the on-screen keyboard will be deselected.

To enable use of the Orbit Writer as a keyboard, one of the following methods can be used:

1. Launch the Settings app and tap "Language and Input". On this screen, the "Keyboard and Input Methods" section will show the currently selected (Default) input method. Check boxes will be available for each input method that has been installed. To enable the Orbit Writer, check the box labelled "Our Braille hardware keyboard". It can now be selected at any time by changing the Default setting.

2. If Our Braille is already running, take the following steps. Go to Our Braille's Actions screen and tap "Switch Input Method". This will bring up the Android Input Method Picker, which will show radio buttons corresponding to each input method that has been enabled. If you don't see a radio button for "Our Braille hardware keyboard", this indicates that it has not yet been enabled. Tap the button labelled "Set up input methods" which will bring up a screen showing each installed input method. Check the box labelled "Our Braille hardware keyboard". Tap the "Back" button to go back to the "Language and Input" screen. On this screen, locate the "Keyboard and Input Methods" section and set the "Default" to "Our Braille hardware keyboard".

6 Searching

On-screen searches allow the user to move quickly to an item on the screen. To conduct an on-screen search:

- Press Space + Dots 3 4 (this activates search mode)
- Search mode displays the letter "S", followed by a colon
- When invoked the first time, a tutorial will open to show what keys to use while navigating
- To search, type what you want to search for. While typing, items that match the search appear on the display, similar to a traditional Google search
- Use the navigation keys to move to previous or the next search result
- Select a search result and leave search mode by pressing Space + Dot 8
- Close search mode without choosing a result by pressing Space + Dots 3 4.
- This will take you back to the screen you were on before the search

7 Settings

Our Braille settings can be reviewed or modified by opening your Android device's Settings app. Then open Accessibility > Our Braille > Settings**.**

The following table lists the settings:

Setting	Description
Status	Shows the status of paired devices.
Braille type	Choose between literary braille or computer braille.
Literary braille table	Set the correct language and the contracted (grade 2) or uncontracted (grade 1) braille grade.
Computer braille table	Set the language for 8 dot computer braille and text input.
Word wrapping	Turn word-wrapping off or on for text that doesn't fit on a single braille line. By default, word wrapping is on.