



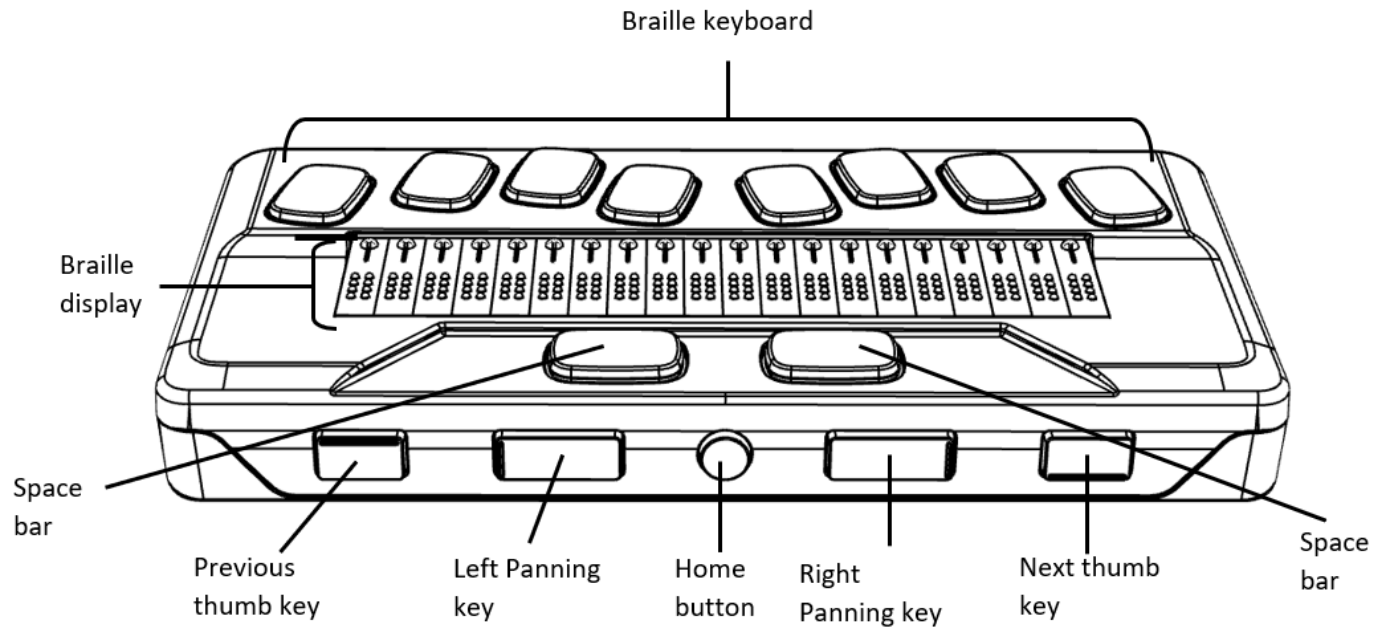
# *Chameleon 20*



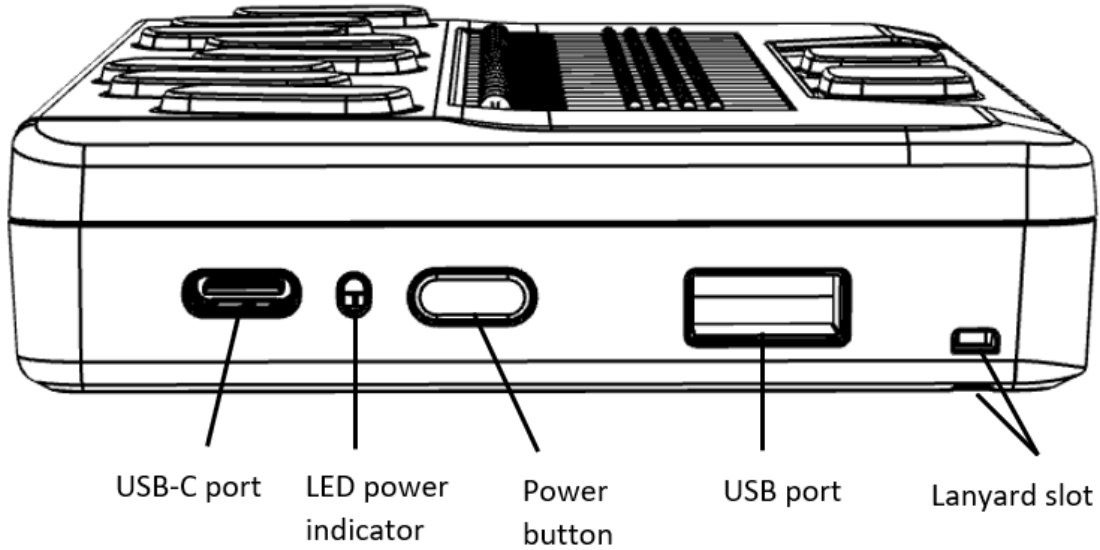
## **Getting Started Guide**

# Overview

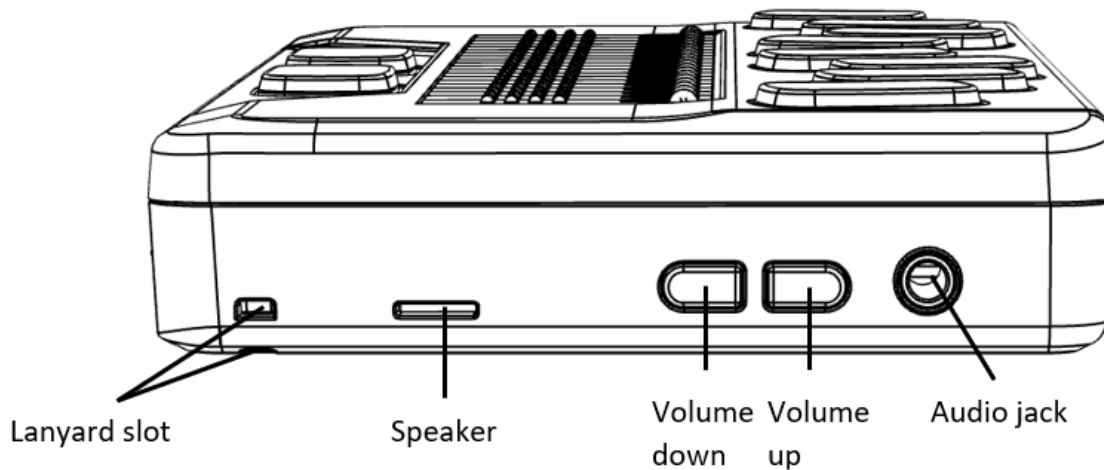
## Front perspective view



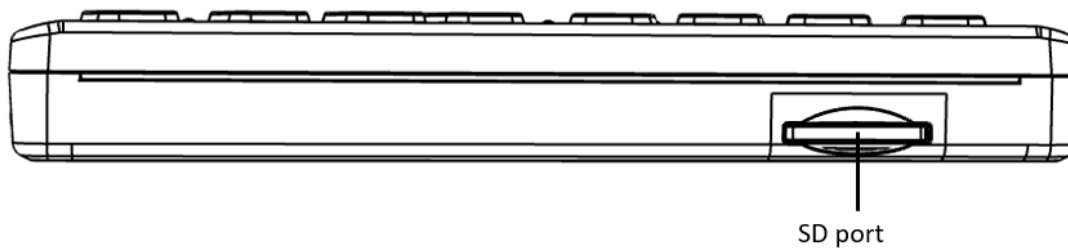
## Left side view



## Right side view



## Rear view



## Getting Started

Thank you for purchasing the Chameleon 20™ refreshable braille display. This Getting Started Guide provides instructions for charging the device, orientation, powering on and off, navigating menus, panning text, using the Context Menu, and accessing the User Guide. For more information on how to use your Chameleon, please refer to the digital User Guide integrated in your Chameleon, or check out the Chameleon webpage at <http://www.aph.org/product/chameleon-20>.

## In the Box

Check that the listed items have been included. Contact Customer Service at 1-800-223-1839 or [cs@aph.org](mailto:cs@aph.org) with any problems.

- Chameleon 20™ braille display
- USB-C to USB-A cable
- USB to AC adapter
- Three thermoplastic polyurethane (TPU) bumper cases in pomegranate, purple, and teal
- Nylon carrying case with lanyard
- Sheet of various bug stickers and logos
- Print and Braille Getting Started Guides

## Orientation and Description

With the device on a flat surface in front of you, the proper operational orientation is with the braille cells closest to you.

### **Top Surface**

The top surface includes the braille display and the braille keyboard. Beginning with the braille cells (closest to you) and moving away from you are the small round Cursor Routing buttons, located just above the braille cells. You use the Routing buttons to move the braille cursor when reading and editing and to activate items in a menu.

Continuing away from you, on a small rise in the surface is the braille keyboard. The layout of the keys for the braille keyboard is similar to most braille displays, with the traditional six Braille-input keys, a Backspace key (Dot 7), an Enter key (Dot 8), and two Space keys.

## **Front Edge**

Along the front edge of the device (closest to you) are five controls. The two outermost rectangular buttons are the Previous and Next thumb keys and are used to move between items in a menu.

Moving inward along the front edge, are two more rectangular buttons called the Panning keys. These allow you to move to the previous and next 20-cell section of the text you are reading.

In the center of the front edge is the small, round Home key. Use this key to return to the Main Menu at any time, as well as to exit the braille terminal when in Terminal mode.

## **Left Edge**

On the left edge of the device, in order from front edge to back, are the following:

1. The Lanyard slot
2. The USB-A port—used to connect a USB drive or other external USB storage device to the Chameleon.
3. The Power button—has a small dot on it for easy recognition.
4. A small LED display—shows the status of your device.
5. The USB-C connector—used to connect the Chameleon to a host device or the AC adapter.

## **Back Edge**

On the back edge of the device and to the far left is an SD Card slot. Use an SD card for storing documents and for updating the software and firmware on the device.

## **Right Edge**

On the right edge, from front to back, are the Lanyard slot, the Speaker, Volume Down and Volume Up buttons, and the Audio jack (for future use).

# Charging the Device

**NOTE:** Make sure to charge your Chameleon completely prior to use.

Connect the USB-C end of the USB cable to the USB-C port located on the left edge of your Chameleon. Very little effort is required and forcing the connection can damage the cable or the device.

Connect the other end of the USB cable to the power adapter. Then plug the power adapter into a power outlet. The USB connector and power adapter are included with your Chameleon. Use the provided power adapter for optimal recharge.

# Powering On and Off

If your device is charged, press and hold the Power button on the left edge of the device for approximately 2 seconds to turn on your Chameleon.

“Starting” should appear on the braille display with a tactile loading animation that circles during start-up. After a few seconds, loading is complete. The “editor” application is shown as selected on the braille display. Your Chameleon is now ready for use.

To turn the device off, press and hold the Power button for 2 seconds.

# Navigating Menus

To navigate from item to item in menus, press the Previous (leftmost) and Next (rightmost) thumb keys, located on the front edge of your device. As you press the Previous and Next thumb keys, the menu item changes on the braille display. Each item represents an application or option you can activate.

To activate a menu item, press one of the Cursor Routing keys. You can also press the **Enter** key (Dot 8) on the braille keyboard to activate a menu item.

## Panning Text

Often, sentences may exceed the 20 characters displayed on your Chameleon. To continue reading through the end of a sentence or backward towards the start of a sentence, use the Left and Right thumb keys immediately to the left and right of the **Home** button to pan text.

## Using the Context Menu

The Context Menu is accessible from almost everywhere in your device. It offers useful contextual functions that are relevant to what you are currently doing on your Chameleon. This is similar to the Context menu on a PC. If you are looking for a specific action or shortcut, chances are you can find it in the Context Menu.

To activate the Context Menu, press Space + M (Dots 1, 3, 4). A menu opens with a list of actions you can perform at that moment. Scroll through this menu until you find what you are looking for, then press Enter (Dot 8) or a Cursor Routing button.

## Accessing the Built-in User Guide

Activate the built-in User Guide item from the Main menu. There you find the complete user guide along with a command reference. This is where to find the most up-to-date information, as well as other resources to help you make the most of your Chameleon 20™.

You can also download the user guide from [www.aph.org/product/chameleon-20/](http://www.aph.org/product/chameleon-20/).

# Specifications

- Power requirement: +5VDC@1.5A
- Battery: Li-Ion 3.7V nominal, 2000 mAh
- Operating temperature range: +5 ~ +45 degrees Celsius
- Battery charging temperature range: +5 ~ +35 degrees Celsius
- Storage temperature: -20 ~ +65 degrees Celsius
- Operating humidity: 5% ~ 95% (non-condensing)
- Storage humidity: 5% ~ 95% (non-condensing)

# Warnings

## **Battery Safety Precautions:**

### **CAUTION:**

- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions below.
- Do not disassemble or modify the battery.
- Use only the specified APH charger.
- There is a risk of overheating, fire or explosion if the battery is put in a fire, heated, subjected to impact, put in contact with water, or if its terminals are shorted.
- Do not attempt to charge or use the battery outside of the unit.

## **Disposal Instructions:**

At the end of the Chameleon 20™'s operational lifetime, its internal components must be disposed in compliance with local authorities.

The Chameleon 20™ contains no hazardous materials. For



disposal, follow local governing ordinances or hospital procedure.

### **SD Card Opening:**

Do not insert foreign object except SDHC cards.

### **FCC Warning**

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.

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

**Note:** 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 or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **Industry Canada Statements**

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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**Chameleon 20™**

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