Braille Trail Reader LE

User’s Guide
Overview of the Braille Trail Reader LE

Introduction

The Braille Trail Reader LE is a braille terminal that can be used with virtually any screen reader on the market, including screen readers installed on, or already part of, mobile device operating systems (smartphones and tablets). The Braille Trail Reader can also work in application mode, where you can use one of the applications present in the device. The notes in the device may be synchronized with your other devices over the internet, using servers such as Gmail or any email server. This unique feature allows you to use your notes instantly after turning on the device, and still keep them synchronized with data on other devices. Using the Braille Trail Reader File Transfer Windows application, you can also transfer text (.txt) and braille ready files (.brf) you would like to read to the Braille Trail Reader.

The internet connection for synchronization is performed over Bluetooth Low Energy and a smartphone with a data plan, thus does not take much power from the phone or Braille Trail Reader. It can also be used with a tablet without a data plan as long as it is connected to Wi-Fi.

Unpacking the Braille Trail Reader

The package contains the following items:

- Braille Trail Reader LE with preinstalled lanyard
- USB cable
- AC adaptor
- Carrying case
- Quick Start Guide (print)
- Command Summary (braille)
- Decorative Braille Bug ® ladybug sticker
Braille Trail Reader - Physical Description

The Braille Trail Reader LE has a 14-cell braille display, 8-dot Perkins-style braille keyboard, along with a joystick and a number of additional keys for navigation. It includes the following elements:

Top surface
Braille Display
The Braille display with 14 cells is located on the top surface, near the middle of the device. Behind each braille cell is a small sensor, known as the cursor routing sensor (Active Touch Sensor).

Braille Keyboard
The keyboard’s 8 keys are located above the braille display. The leftmost key is called BACKSPACE, or sometimes dot 7, and the rightmost key is called ENTER, or dot 8. The Spacebar is located in the middle, just below the braille display. The braille keyboard can be used to type braille or perform commands (in combination with other keys – for example with space). The commands depend on the screen reader used. Internal Braille Trail Reader LE applications can be controlled with keyboard shortcuts described in the Application Mode section of this documentation.

Joystick
The joystick is located on the top surface, near the rear edge of the device. The joystick has five functions: left, right, up, down and action. The action is performed by pressing the joystick cap into the unit.
Front Edge

Thumb Keys
The four keys facing the user are normally operated by your thumbs, so we call them “thumb keys” to differentiate them from the main keyboard keys. These thumb keys are used in conjunction with the braille display when reading and navigating, and can be operated using your thumbs without moving your fingers from the braille display.

The thumb keys are named as follows: PREVIOUS, LEFT, RIGHT and NEXT.

Left Edge

Power Button
The power button has a tactile dot in the middle and is slightly raised. It is located towards the back of the device on the left edge. To turn the device on or off, press and hold this button for approximately 3 seconds. The Braille Trail Reader LE will confirm with a beeping sound that it is powering on or off. The word “starting” will appear on the braille display during the boot process. The power button is also used to reset the Braille Trail Reader (when pressed and held for approximately 15 seconds).

Micro USB Port
In the middle of the left edge, next to the power button, you will find a rectangular USB Port. Use the cable that came with your Braille Trail Reader to connect your device to a PC. You can also charge your device’s battery through USB.

Rear Edge

Application/Terminal Mode Switch
Along the Braille Trail Reader’s rear left is an App/Terminal Switch. Slide it to your right to use the device with any screen reader (mobile or PC). Slide it to your left (closer to the edge of the device) to use the applications included in your Braille Trail Reader.

Charging the Battery

IMPORTANT: Please fully charge your Braille Trail Reader before the first use. Prior to first use, you must charge the device for a minimum of 8 hours before using it. After its first use, it will take up to five hours to fully charge the battery.

The Braille Trail Reader has a built-in rechargeable Lithium Ion Polymer battery. To charge the battery, connect the Braille Trail Reader via USB to your PC or a power outlet using a USB AC adapter. The battery life of your PC will not be affected significantly as the current used is very low. The word “charging” will appear on the braille display when the Braille Trail Reader is connected to power and turned off. You can use the Braille Trail Reader while charging. You can view the battery status in the internal menu. Once fully charged, the Braille Trail Reader will display “battery full,” and is ready for 20 hours of continuous operation on Bluetooth.

You can use any universal USB AC adapter to charge the Braille Trail Reader. Just insert the USB cable’s rectangular connector into the adaptor’s USB port, insert the micro USB connector into the micro USB port on the left side of your device, then plug in the adapter into an AC outlet. Connecting the AC adapter or the USB cable attached to your computer while the device is turned off will wake it up and “charging” will appear.
The Braille Trail Reader’s battery management system includes a battery protection circuitry that prevents it from being damaged by total discharge. If the battery is low, the Braille Trail Reader will warn you with a beeping sound before switching off automatically. Never try to replace the battery yourself. This will likely damage the device and void the warranty. If your device is in need of repair, please contact APH Customer Service at 800-223-1839.

**Powering On/Off**

Pressing and holding the power button for approximately three seconds will turn the device on or off. A beeping sound will be heard, and “starting” will appear on the braille display.

When pressing and holding the power button for approximately 15 seconds, the Reader will reset.

If there is no action on the device (no communication with the PC and no user action on the buttons), the device will turn off after the “auto-power-off” period expires. The Reader will beep twice when there is one minute left in the power-off time period. This counter/period will reset every time data is received from the PC or a user action occurs.

**Installation and Connectivity**

**Interface Ports**

You can connect your Braille Trail via USB or Bluetooth to your PC or Bluetooth for your mobile devices. If you use USB to connect to a Notebook or PC, the Braille Trail battery will be recharged in the process.

**USB Port**

USB connectivity is supported by Windows computers (32 and 64 bits).

Please install the Braille Trail Reader driver prior to connecting the braille display to your PC. Please visit the Brailliant BI 14 section on the support page at www.humanware.com to download the drivers.

Then, when you connect Braille Trail Reader LE for the first time, it will be recognized automatically.

Plug the rectangular USB Connector into your PC. Plug the small Micro USB Connector at the other end of the USB cable into the Braille Trail Reader micro USB port. This is the small, rectangular socket along the left side.

Once the Braille Trail Reader driver has been installed, and the Braille Trail Reader has been connected to the USB port, the braille display will stay connected as if it was connected to a serial port; the driver is simulating what is known as a virtual serial port. This has the advantage that the Braille Trail Reader can be used with screen readers that can only support serial braille displays.

Installing this driver means that one USB port on the computer will be perceived as a serial port, such as COM3. To ascertain which virtual COM-port has been created, go to the Start menu.
on the PC, select Settings > Control Panel > System; on the “Hardware tab, select “Device Manager” and look through the list of ports.

**Bluetooth Interface**

Bluetooth is a wireless connection. Similar to USB, Bluetooth simulates a virtual COM port.

Wireless technology, along with the Braille Trail Reader’s long battery life, provides total freedom and independence from wires within the range of a Bluetooth connection (range is approximately 30 feet). Bluetooth is now a common interface for mobile phones, PDAs and Notebook PCs. PCs can be upgraded with Bluetooth using a Bluetooth USB dongle, which automatically installs itself on Windows 7, Windows 8, Windows 10 (and above) when plugged in.

When two Bluetooth devices are connected for the first time, they have to be “paired”. This is for security reasons. Later, the devices will recognize each other automatically, if allowed by the user.

In the Bluetooth environment of a PC, you will find Braille Trail Reader LE as: **Brailliant BI 14 6500141XXXXX** (where XXXXX is the serial number of your unit.)

**Connecting to a PC or Notebook (in Terminal Mode)**

Your Braille Trail Reader can be used as a braille display with popular PC screen readers such as JAWS, Supernova, and others. The PC or Notebook must provide either USB or a wireless Bluetooth interface (built-in or by using a USB Bluetooth dongle). We recommend Windows 7, Windows 8 or Windows 10 for Bluetooth.

To find out which virtual serial port is provided by a Bluetooth or USB interface in Windows:

1. Open the Control Panel (Start/Settings/Control Panel).
2. Select “System” from the list.
3. In the window now opening, select the tab “Hardware”.
4. On this tab, click on “Device Manager”.
5. In the Device Manager’s tree view, open the branch “Ports (COM and LPT)”.
6. Search for something similar to “standard serial over Bluetooth port (COM 13)”. There may be more of these. Take note of the number after the COM.
7. This number is the number of the virtual COM port the device is connected to. The screen reader wants to know this port.

On Bluetooth, you will see two ports - one outgoing and one incoming. The outgoing port is the one we want to use to connect. When connected using Bluetooth, the serial port used by your device may also be found in the Properties of your connected device in the Bluetooth Manager.

Some screen readers do not support higher values of COM Ports. In that case, you may want to change the port number. Do this by selecting the “Port (COM and LPT)” branch in Device Manager as described above, and right-click on the Port you want to change (Shift F10 will do the same). The context menu opens and you can click on “Properties”. Then click on the tab “Port settings”, and click on the “Advanced” button. In the window now opening is a List Box “COM Port Number”, where you can choose a free port number. Numbers not available will be marked.
**JAWS**

A JAWS driver for Braille Trail Reader is included with the JAWS software. The latest version can be downloaded from the Brailliant BI 14 section on HumanWare’s website’s support page at www.humanware.com.

Installation instructions are included in the driver package.

**Other Screen Readers**

The Braille Trail Reader is compatible with other screen readers. Please consult the Brailliant BI 14 section on the support page at www.humanware.com for additional information.
Pairing the Braille Trail Reader as a Terminal with a Mobile Phone

The Braille Trail Reader can be paired with mobile phones as a Bluetooth braille display. The pairing must be initialized from the phone, just as you would pair with any other keyboard or Bluetooth device. Please note that another connection with your phone will be performed over Bluetooth Low Energy for application data synchronization, using a special application called *Brailliant Sync*.

Please don’t confuse the two – look for the terminal connection in the screen reader’s menus and the data synchronization Bluetooth Low Energy connection in the Brailliant Sync app.

Waking Up Your iOS Device Using Braille Trail Reader

When using your Braille Trail Reader, you may wake up your iOS device and initiate a connection between the Braille Trail Reader without touching the iPhone or iPad. For this, you need the Braille Trail Reader to be connected to the Brailliant Sync app (see “Synchronization of the Braille Trail Reader data” section below). This connection is maintained by the devices, so you only need to establish it once. To perform the wake-up, please turn the Mode switch to Terminal mode position. If already in Terminal mode – please turn it to Application mode and back to Terminal mode. The iPhone or iPad that runs Brailliant Sync software synced with your Braille Trail Reader will wake up for a few seconds, and your iOS device will initiate Terminal connection.

For more information, refer to your mobile device screen reader user guide.

Braille Trail Reader Menu

The Braille Trail Reader Menu is activated with a short press of the power button when using it in the terminal and application modes.

While in the menu, use the joystick LEFT / RIGHT or PREVIOUS / NEXT thumb keys to navigate the menu. The UP and DOWN joystick movements or LEFT and RIGHT thumb keys are used to perform various actions depending on the type of menu. To enter the selected menu item, you need to use joystick DOWN, ENTER (dot 8) or SPACE, yet another way to choose an item is to touch the cursor routing sensor above its name. To exit a menu, use joystick UP or ESC shortcut (Space with E). First letter navigation is available too: in long menus, pressing the first letter of the item you are looking for is a quick way to jump to that item. This makes for an extremely efficient experience. In large menus or long lists of notes, the first letter navigation is very useful.

Another useful feature is the space with dots 123456 combination that jumps to the main menu if you are in Applications mode.

There are 3 different types of menu items:

*Read Only*
System provides information that cannot be modified.

*Toggle*
Allows you to toggle settings using LEFT and RIGHT thumb keys.
**List**

Good for choosing one item from a list. Use the touch cursor above the element you want to choose.

**Clock**

This is the first item in the main menu. The *RIGHT* thumb key scrolls the display to show the date. Return to time display with the *LEFT* thumb key. Please note these are not manually set. The time and date are synchronized when you connect the Braille Trail Reader with another device via the Brailliant Sync application – see the “Synchronizing Braille Trail Reader Data” section below.

**Notes**

Notes is one of the applications – this menu item is available only in application mode. See the description of Notes and Files in the “Application Mode” section below.

The second option of the Notes menu options is Files – it shows a list of files that have been downloaded to the device with Braille Trail Reader File Transfer software for Windows and can be read in the device – see the “Transferring Files to the Braille Trail Reader LE” section below.

**Battery**

This option displays battery charge information as a percentage of full charge. When panned the display will show if the unit is being charged or not.

**Stop Watch**

This application shows the time elapsed since a space key press. Space starts and stops the stop watch. The accuracy of measurement is 0.1 s (one tenth of a second). Use Space + C to reset the stop watch.

**Connections**

Connections is a menu item used to switch between various devices currently connected to your Braille Trail Reader over Bluetooth or USB. There may be up to two devices connected at the same time. In this menu, you will be able to switch between them.

**Settings**

In Settings, you choose the Braille Trail’s operating parameters:

**Auto power off**

Allows user to set the time of inactivity before the unit turns off automatically, between 3 minutes, 5, 10, 15, 20, 30, 45, 60 minutes, and off.
Sleep

Allows user to change the sleep time (period of inactivity before the braille display becomes inactive), between 3 minutes, 5, 10, 15, 20, 30, 45, 60 minutes and off. Press any key to wake your device when in sleep mode. This feature keeps the unit on; only the braille display will stop showing after the elapsed time, which saves battery life.

Sound

Allows user to set sounds ON or OFF. When sounds are off, the unit will provide sound cues for actions it performs (like switching on and off, etc.).

Vibration

Allows user to change between vibration ON or OFF. When vibration is off, the unit will not provide vibration cues for actions it performs.

Cursor sens

Controls the sensitivity of the active touch cursor. You can set to off (no touch cursors) or 1 (most sensitive) to 5 (least sensitive). Please experiment with these settings to find the right setting for you.

Cursor vib

Controls whether there should be vibration feedback when the touch cursor is activated. You can set it to off (no vibration on touch cursors) or to the length of 1 to 5. Please experiment with these settings to find the right setting for you.

Braille cursor blink

Enables the braille text cursor to blink when editing notes. The cursor, either dot 8 or dots 7 and 8 will blink when this is on.

Computer Braille

Allows user to choose an 8-dot computer braille table from a list of available languages/types. An 8-dot sign marks the item that is selected.

Literary Braille

Allows user to select a 6-dot literary braille table from a list of available languages/types. An 8-dot sign marks the item that is selected.

Default Braille

Allows user to select either literary or computer braille table as default when opening a note (existing or new).
Language

Allows user to select a language from a list of available languages. The language that is selected is marked by an 8-dot sign.

One-hand mode

Enables or disables one-hand mode for users restricted to the use of a single hand. You will be notified if one-hand mode is enabled when turning on your Braille Trail Reader. An 8-dot sign marks the item that is selected.

New Line Indicator

While in a note, a cell showing eight dots indicates a new line. This can be set ON or OFF. The default value is ON.

About

Displays the Reader’s firmware version and serial number. It includes options for starting the firmware and memory upgrade process. Press Space or Joystick down when the memory version is active to check if your memory is up to date.

The firmware upgrade can only be performed with a new version of firmware in a file available on a Windows computer and using Braille Trail Reader Updater Software. Please use the firmware upgrade with caution: any interruption during the upgrade may deem the device unusable until sent for service to an authorized workshop.

While in the main menu you may restore default settings for the device. Use key combination: joystick down + dots 456. This combination will only take effect when at the top menu level.

Application Mode

Braille Trail Reader can also work autonomously when switched to Application mode (with the switch at the rear of the unit slid to the left). When in Application mode, the Notes application is available, in addition to the menu items listed above.

Notes

This application keeps your notes and files. Notes may be downloaded and synchronized with a server, and via the server with all your other devices (a PC, tablet, phone etc.). Files can be sent to and from the Braille Trail Reader using the Braille Trail Reader File Transfer Windows application.

After entering the Notes menu item, you will see a list of folders – one per account, starting with “local”. This “local” folder is stored in the device only and will not get synchronized. Second is “files” - see the description of files feature later in this section. All other folders are created when you first connect the device to the Brailliant Sync application. In this app, you can define your accounts and name the folders that will correspond to the accounts. See “Synchronization of the Braille Trail Reader LE Data” section below.
In any folder (local or synchronized), you will find a list of notes that belong to the account that corresponds to the folder. Typically, you will find there all notes that were stored in a given account.

The Braille Trail Reader uses computer braille for menus, so when viewing your note or file names they will be shown in computer braille. Once you open the note or file the Braille Trail Reader will show the text the way you originally wrote it or transferred it to the device.

In case there are no notes, you will see “empty” on the braille display.

To create a new note, use the Space with N command.

Browse the notes with the usual scrolling methods (joystick or thumb keys) and enter into a note using the Spacebar or joystick down. When in the note, you may edit it using the following shortcuts:

<table>
<thead>
<tr>
<th>Editing function</th>
<th>Shortcut key</th>
</tr>
</thead>
<tbody>
<tr>
<td>New line</td>
<td>Enter or Joystick action</td>
</tr>
<tr>
<td>Backspace</td>
<td>Backspace or Space + B</td>
</tr>
<tr>
<td>Previous line (paragraph)</td>
<td>Space + dot 1, joystick up</td>
</tr>
<tr>
<td>Next line (paragraph)</td>
<td>Space + dot 4, joystick down</td>
</tr>
<tr>
<td>Previous word</td>
<td>Space + dot 2</td>
</tr>
<tr>
<td>Next word</td>
<td>Space + dot 5</td>
</tr>
<tr>
<td>Previous character</td>
<td>Space + dot 3 or joystick left</td>
</tr>
<tr>
<td>Next character</td>
<td>Space + dot 6 or joystick right</td>
</tr>
<tr>
<td>Beginning of note</td>
<td>Space + dots 1-2-3</td>
</tr>
<tr>
<td>End of note</td>
<td>Space + dots 4-5-6</td>
</tr>
<tr>
<td>Save without exit</td>
<td>Space + S</td>
</tr>
<tr>
<td>Save and exit</td>
<td>Space + E</td>
</tr>
<tr>
<td>Exit without saving</td>
<td>Space + Z</td>
</tr>
<tr>
<td>Switch Computer/Literary</td>
<td>Space + G</td>
</tr>
<tr>
<td>Braille</td>
<td></td>
</tr>
</tbody>
</table>

Note: When you select “exit without saving,” you will need to confirm this by pressing dot 8. You can cancel this function by pressing dot 7.

While editing a note, its text may be displayed on the braille display in Computer Braille or Literary Braille. Switching between the two may be done by pressing Space + G. Specific braille conversion rules table may be set in Settings.

While in a note, the cursor is represented by dots 7 and 8 in Literary Braille mode and by dot 8 while in Computer Braille mode. This indicator may be changed to blinking in the Settings menu.
Files

This folder keeps your files that can be transferred to the device using the Braille Trail File Transfer Windows program.

After entering the Files folder, you will see a list of files that have been transferred to the Braille Trail Reader. The Braille Trail Reader will remember the point where you stopped reading and return to that same point when you re-open the file again.

All navigation commands and shortcuts are the same as with the notes editor (see the previous section).

You are unable to create a new file, or edit files, when in the files folder.

Please refer to the “Transferring Files to the Braille Trail” section below for more information.

Synchronizing Braille Trail Reader Data

Braille Trail Reader notes can be synchronized with your Google Mail account, etc. This makes it easy to access your notes at any moment without all the hassle of accessing them through your smartphone (for that you would need to switch both devices on, wait until they connect, and finally reach the Notes app in your phone – in Braille Trail Reader, you just switch the device to Application mode, and you’re ready to view your existing notes or write new ones).

For synchronization, you need to use the Brailliant Sync app from the Apple AppStore (Google Play Store app to be available soon).

Before the app can be used, the connections in the Brailliant Sync app must be set up:

1. Define your note accounts (for example Google account) by giving an email address, server name, user name and password plus port number and your displayed name that will also be seen as the corresponding folder name in the Braille Trail Reader.

2. Connect to your Braille Trail Reader by choosing “Select device” and selecting the serial number of your device from the displayed list. The Braille Trail Reader must be on when doing this. Choose one (the only one usually, unless your neighbor also uses a Braille Trail Reader).

Once the connections are defined, you no longer need to worry about the Brailliant Sync application on your phone. It can keep running in the background, and synchronizations will not require you to go back to the app. You just have to make sure it is running in background (for example, you may need to restart the app after you reboot your phone).

The actual synchronization is activated from the Braille Trail Reader.

1. When in menu enter “Notes” - Space-S will sync the accounts (it will create accounts that did not exist before on the device). You only need to perform this if an account does not exist on your device. So typically, you would do that only if you have added a new account or changed your existing accounts in the Brailliant Sync app. The synchronization may be stopped by pressing Space + C.

2. From this time on, the synced accounts will exchange note content (between the device and the server) every time you switch the Braille Trail Reader to terminal mode. If you only want one or few accounts synchronized, you may disable synchronization for all other accounts in the Brailliant Sync app.
3. If there is a need for immediate synchronization, for example you want synchronize immediately after editing a note to view it on your PC, do the following: when in the menu, enter “Notes” and then one of the notes folders. While in the note list, press Space-S to synchronize the notes. All the notes from the selected account will be synchronized.

Each time notes are synchronized, the Braille Trail Reader’s system time is also synchronized with the phone time.

Please note that if you have a large number of notes and/or if your notes are long, you may have to wait up to an hour for a full synchronization (this happens if the notes are synchronized for the first time). Please don’t interrupt the process (status of the process is reported on the Brailliant Sync App screen).

Also, please remember to set the sleep time long enough for the first synchronization.

Whenever you want to delete a note from your device, you can use the Space + D command when on the note’s title in the note list. This note will be deleted from your device and, after a synchronization, from the respective server.

If you wish to remove an unused account from your device, go to the account list, choose the account for deleting and press the Space + D command. The account will be deleted and all notes associated with that account will disappear from your device. They will not disappear from the server of the account, even after being synchronized.
Transferring Files to the Braille Trail Reader LE

The second item in the Notes menu is “files.” This folder shows a list of files that have been transferred into the device using the Braille Trail Reader File Transfer Windows application. You can open any of the files in the Braille Trail Reader for reading.

The Braille Trail Reader File Transfer Windows application is used to transfer files from a PC to the Braille Trail Reader. The application shows files converted to braille presented as left pane (so called PC Files pane) and Braille Trail Reader files in the right pane (so called Reader Files Pane).

File types that can be transferred to the device are .txt and .brf. The transfer is a two-step process: first, you need to copy files to the left pane of the Braille Trail Reader File Transfer app. At this moment, conversion from the source file format to braille is performed. The braille grade (computer or literary) and language can be decided by the user in a dialog. In the second step, you will be able to copy the converted file to the Braille Trail Reader. A menu command “Add to PC Pane and Transfer” performs both steps at once.

Below you will find a detailed description of steps necessary to copy a file to the Braille Trail Reader.

Copy files from a PC folder to the Braille Trail Reader File Transfer Windows Application

To copy your file from a PC folder to the Braille Trail Reader File Transfer app:

• Go to the Files menu and choose Add to PC Pane – you will be presented the typical Windows file open dialog;
• Drag and drop the file(s) from anywhere in Windows interface (the Desktop, Windows Explorer etc.) to the left pane of the Braille Trail Reader File Transfer app;
• Or, copy a file (or files) into the Windows Clipboard (usually with Ctrl-C) and use Ctrl-V shortcut to paste it while in the left pane of the Braille Trail Reader File Transfer Windows app.

The above-mentioned methods will work for .txt and .brf files only. The Windows file open dialog will only show these types of files.

After the file copy is initiated, a braille conversion mode dialog with a choice of braille grades and languages will open. The user may choose between Computer Braille and Literary Braille, and language of conversion. There is also an “Always Ask” checkbox below the list of languages. If you uncheck this box, the conversion will always be performed with the settings chosen. If you leave this box checked, the Conversion Mode dialog will open whenever you select a file to copy.

Connecting the Braille Trail Reader with the Braille Trail Reader File Transfer Windows App

To perform any file transfer operation between the PC and the Braille Trail Reader, you need to connect the two with the USB cable that was provided with the unit and press the “Connect” button above the right pane of the Braille Trail Reader File Transfer application or use the Connect option from the Reader menu. The status bar at the bottom of the application window will show green “CONNECTED” message if the operation was successful. At the same time, you will see “transfer mode” message on the Braille Trail Reader display.
Copying Files from the Braille Trail Reader File Transfer Windows App to the Braille Trail Reader

Copying the converted files to the Braille Trail Reader is done in the Braille Trail Reader File Transfer app by copying from the left pane (PC Files pane) to the right pane (Reader Files Pane). The files can be copied only if the device is correctly connected (“CONNECTED” message in the app’s status bar).

To copy, delete, and preview files, you can use one of the keyboard shortcuts:

- Space for selecting/deselecting an item
- F3 to preview selected file (does not work for multiple files – you will get an error message if more than one file is selected)
- F5 for copying selected file or files to the right (Reader Files) pane
- F8 for deleting selected file or files from the pane
- Alt-Enter to show details of the file (name, extension, size, and modification date in a dialog).

From the Operations menu you may select one of the above options by choosing Select, Preview, Copy, Delete or Details.

Copying files to the Braille Trail Reader is not as fast as PC file transfer, so files larger than one megabyte may take a minute or more to copy.

Copying Files from PC Pane to a Windows Folder

The files that can be seen in PC Pane of the Braille Trail Reader File Transfer app are in a braille format. To copy them to a Windows folder they must be converted to text, which is performed during the copy operation.

More Options

Device Info
This item shows the connected device’s type and serial number.

How to Use?
A list of keyboard shortcuts is presented.

File/Exit
Closes the program.
End User License Agreement

By using this Product (Braille Trail Reader LE), you agree to the following minimum terms:

1. **License Grant.** HumanWare grants to End User a non-exclusive, non-transferable right and licence to use the Software on this product.

2. **Ownership of Software.** End User acknowledges that HumanWare retain all right, title and interest in and to the original, and any copies, of software which is incorporated into this product. End User agrees not to: modify, port, translate, decompile, disassemble, reverse engineer, or make public in any way the software of this Product.
Technical Specifications

Navigation Components:
- 4 thumb keys
- 1 joystick (up, right, down, left, action)
- 8-key braille keyboard
- 1 Spacebar
- 14 touch cursor routing keys
- 14 braille cells

Long-life Battery:
- Lasts 10 hours or more
- Recharges from PC through USB port
- Auto shut-off
- Lithium-ion polymer battery
- Compatible with any standard USB A/C adapter
- Voltage rating: 3.7V

Connectivity:
- USB 2.0
- Bluetooth V2.1 + EDR Class 2
- Bluetooth 4.0

Portability:
- 166 x 100 x 23 mm / 285 g / 0.63 lbs.

Compatibility:
- Windows computers (32 and 64 bits)
- JAWS and other screen readers
- Apple products with iOS 10 or macOS 10.12 and VoiceOver (MAC, iPhone, iPad, iPod Touch)
Manufacturer Warranty

Manufacturer Warranty
The Braille Trail Reader is a high-quality product, built and packaged with care. All units and components are guaranteed against any operational defects for one (1) year.

Warranty covers all parts (except battery) and labor. If any defect should occur, please contact APH Customer Service at 800-223-1839.

Conditions and Limitations:
Please keep your bill of purchase in a safe place as it may be required for a warranty repair or replacement. Please retain your original. If the unit has to be returned, please use the original packaging. This warranty applies to all cases where the damage is not a result of improper use, mistreatment, negligence or acts of God.

In addition to the warranty, you can also purchase a Service Contract directly from HumanWare to prolong coverage for one year and also benefit from the cleaning service. Please refer to http://www.humanware.com/, or contact HumanWare at us.info@humanware.com, or 800-722-3393.

Customer Support
For customer support, please contact APH Customer Service at 800-223-1839 or CustomerService@aph.org.

Additional Resources
For additional resources, including more information about braille literacy, fun and engaging student activities, and to order a complimentary Classroom Kit, please visit www.braillebug.org.