APH Refreshable Braille Comparison – What product is best for my student?

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If you have questions about which refreshable braille display is right for you or your student, contact APH Customer Service at 800-223-1839

Criteria	Mantis™ Q40	Chameleon™ 20	Braille Trail Reader™
APH Partner Company	**HumanWare™**	**HumanWare™**	**HumanWare™**
Which one is for me?	Ideal for students learning traditional computer keyboarding skills. A great tool for students from elementary school through advanced education, and into employment. Number of internal applications and connectivity options can grow with the user as they progress. Creates transitional skills to the workplace while having the 6-key entry feature available if the user wants to type in braille directly. Compatible with PCs, Macs, and mobile devices.	Ideal for students of all ages from elementary to higher education. Provides a great platform to teach both reading and writing braille using it's internal note taker application, and creates many opportunities to practice reading with its connection to online libraries. Chameleon provides 20 cells of braille in a portable and comfortable size to carry from class to class, or to use as an efficiency accessory with modern mobile devices.	Serves as a great braille tool for the reader on the go. With 14 braille cells, it's compact size is perfect for carrying in your pocket or purse. Unique Sync feature enables users to type a note anywhere and ensure that note is synchronized with their mobile device for later use- a great feature for older students or professionals. Includes a one-handed mode to ensure more people can use this display to read and type braille.
Quota / Non-Quota price	$1,995 Quota / $2,495 Non-Quota	$1,295 Quota / $1,595 Non-Quota	$995
Number of braille cells	40	20	14
Cell type	Traditional Piezoelectric	Traditional Piezoelectric	Traditional Piezoelectric
Braille refresh rate	Instantaneous	Instantaneous	Instantaneous
Cursor routing capabilities (Ability to quickly move one's cursor to a specific braille cell)	Yes	Yes	Yes
Keyboard style	Laptop-style QWERTY keyboard	Braille-entry keyboard	Braille-entry keyboard
On-board WIFI	Yes, for software updates and downloading books from Bookshare or NFB Newsline	Yes, for software updates and downloading books from Bookshare or NFB Newsline	No
Bluetooth connectivity	Yes, up to 5 devices at once	Yes, up to 5 devices at once	Yes, up to 2 devices at once
Supported operating systems	Windows 8 or later: JAWS, NVDA MacOSX 15.5.1 or later iOS 13.6 or later	Windows 8 or later: JAWS, NVDA MacOSX 15.5.1 or later iOS 13.6 or later	Windows 8 or later: JAWS, NVDA, SuperNova MacOSX 14 or later iOS 12 or later Android: BrailleBack
Internal applications	Editor Library File Manager Clock Calculator	Editor Library File Manager Clock Calculator	Stop Watch Notetaker Notes Sync (syncs with iOS) Notes App Clock
One-handed mode	No	Yes	Yes
Exam mode	Yes	Yes	No
Government mode	Yes, but must be requested when the device is ordered and cannot be turned off.	No	No
Can remotely wake up connected device (Especially valuable when working with deaf-blind students)	Yes	Yes	Yes
Internal braille translation	Yes: Users can type notes in their preferred grade of braille and ensure it is readable in print when transferred to a computer or sighted user.	Yes: Users can type notes in their preferred grade of braille and ensure it is readable in print when transferred to a computer or sighted user.	Yes: Users can type notes in their preferred grade of braille and ensure it is readable in print when transferred to a computer or sighted user.
Vibration feedback	Yes	Yes	Yes
Dimensions	290 x 170 x 20 mm	182 x 93 x 23 mm	166 x 100 x 23 mm
Weight	1.7 lb	0.9 lb	0.63 lb
Battery	15 Hours - User Replaceable	15 Hours - User Replaceable	20 Hours - Not User Replaceable
External storage ports	USB host for thumb drives and SD card slot	USB host for thumb drives and SD card slot	None
Internal storage	16 GB for books and note files	16 GB for books and note files	8 GB for notes
Included case	Green TPU protective shell	3 different colored TPU shells + protective case with lanyard	Protective case with lanyard
Support for additional languages	Yes: Ability to add language profiles if a user types or reads different languages. For example, if a student takes a Spanish class, they can setup a Spanish language profile with the Spanish braille table.	Yes: Ability to add language profiles if a user types or reads different languages. For example, if a student takes a Spanish class, they can setup a Spanish language profile with the Spanish braille table.	Yes: Can switch the entire system's language
Supported file formats	Notes are created in .TXT format. PDF, Microsoft Word, BRF, and BRL files can be read but editing them changes the format to TXT. PEF, HTML, RTF, and DAISY/NISO	Notes are created in .TXT format. PDF, Microsoft Word, BRF, and BRL files can be read but editing them changes the format to TXT. PEF, HTML, RTF, and DAISY/NISO	TXT BRF