

EDUCATIONAL TOOLS: APH MANTIS Q40 AND APH CHAMELEON 20



AMERICAN
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Objectives

- Gain knowledge of the APH Mantis Q40 and Chameleon 20 and how devices work with computers and mobile devices
- Learn about using the Mantis and Chameleon to support literacy for school-age children
- Receive tips and strategies on maximizing students' learning of the Mantis and Chameleon

The Mantis Q40

- 40 cell braille display
- QWERTY laptop keyboard
- Stand-alone features
- Connects via USB or Bluetooth
- WI-FI



Chameleon 20

- Speech – Now Available!
- 20 cell braille display
- Perkins style 8 key keyboard
- Stand-alone features
- Connects USB or Bluetooth
- WI-FI



Learning Braille (both)



- Toggle between contracted and uncontracted in the Editor (Ctrl+Alt+G, Backspace+G)
- Multi-modalities when connected to a device with a screen reader
- Increase braille access
- Reading books in Library from BookShare and NFBNewsline
- Braille display iOS Devices, Mac, Chromebooks, PCs, and Android (coming soon)

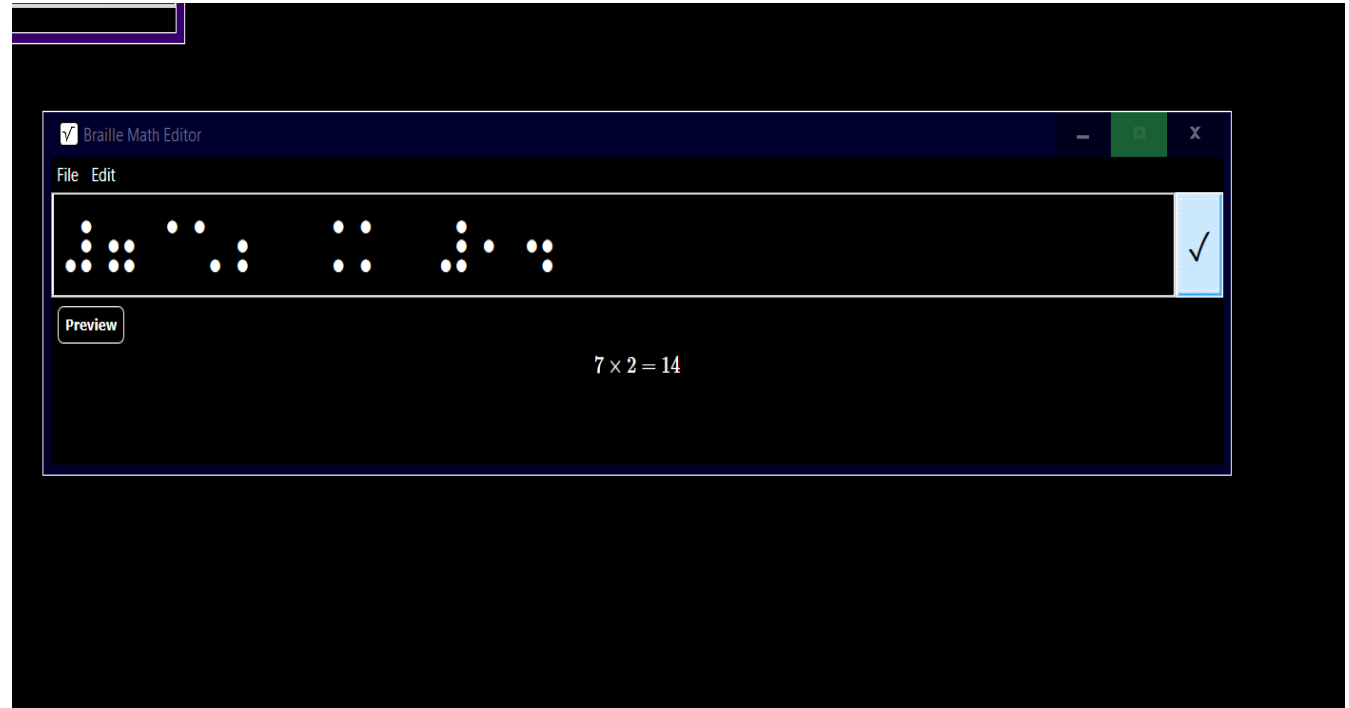
Math Support (both)

Both have a Calculator built in

Chameleon can work with the Braille Math Editor in JAWS (Insert + Space, Shift + =)

Both can use the Desmos Online Calculator

- To read in Nemeth, set Desmos to braille mode Nemeth and change JAWS output to Computer braille through the options, braille, advanced, general



Comparing: Mantis vs Chameleon

Mantis reinforces letter to letter recognition

- Learning to touch type
- For some, keyboard layout is more familiar for JAWS
- Works with Chromebooks

Chameleon is smaller so more portable

- Speech output in 2.0 update
- Braille entry for Braille Math Editor with JAWS
- Braille keyboard for braille character reinforcement



NATIVE MODE AND APPLICATIONS

“Visual” Display



Chameleon Main Menu 1

Editor

Braille Editor

Terminal

Library

File Manager

Calculator

Date and Time

Main Menu 2

Settings

Online Services

User Guide

Power Off

Thumb keys

Previous: Move back one level

Left: Pan the Braille display

Home

Right: Pan the Braille display

Next: Move forward one level

Navigation

Home will place the user back to main menu

Pressing Home always exits Terminal Mode.

Thumb Keys

Select options with a Curser Router Key or Enter

Dot 8 is Enter

Dot 7 is Backspace, Delete

First letter navigation

Editor

Create File (txt)

Open File

Editor Settings (Confirm deletion on or off)

Close

Create file

Press a Router Key and begin writing.

When done press Space+S

Write a filename, enter

Saved

Braille Editor

Speech does not work in an open file

Speech will work in the menus

BRF and BRL formats only

Terminal

Connected devices

Add Bluetooth device

Back

Library

Check if the school district will support placing this device on their network.

If not, extract the files from BookShare using a Windows PC and copy them manually through the cable or with a USB drive.

Read, Highlight, place Bookmarks

File manager

Books

Documents

Online Books

Release Notes

Individual Files

Back

Full Braille cell: Student at the Root/First level folder

Calculator

Four math operations

Percent, square roots, factorials,
exponents

Commands must be entered in computer
Braille

Date and Time

Date

Time

Settings

User Settings

Braille Profiles

Speech Setting (Chameleon)

WI-FI

Bluetooth

Activate Exam Mode

Software Update

About

Online Services

Press O then enter on Online Services,

Select Bookshare or NFB Newsline

Use the categories or type in the search field

Browse and choose a book to download

DAISY or BRF Books

Add bookmarks and highlights in the library

Comments

This device does not print, plug it into a Windows PC or a Chromebook when it is at the Editor, and it will act as a Thumb Drive.

Plug this device in when it says Braille display in Terminal mode. Do this before starting the screen reader.

Use File Explorer for the Windows PC or File Manager for Chromebook to transfer files. File Manager should be taught early in instruction.

The APH Chameleon 20 & APH Mantis Q40 require a 2.4 GHz Wi-Fi connection.



CONNECTING TO DEVICES

PC, Chromebook, iPad, iPhone, MacBook



Connecting – Make Discoverable

Press Home key on Mantis or Chameleon

Press T for Terminal and Enter

Press A and Enter on Add Bluetooth Device

Your device is now discoverable

Windows/JAWS or NVDA

USB to USB C Cable

Bluetooth

- Put Mantis in discovery mode
- Win, type Bluetooth, enter on Bluetooth & other devices
- Toggle Bluetooth on
- Choose Mouse, Keyboard, & Pen
- Select APH Mantis Q40 xxxxxxxx

Configure APH in the Braille Device Manager in JAWS

Complete the Connection

Press Home key on Mantis or Chameleon

Press T for Terminal and press enter

Press Enter on Connected Devices

Arrow down to your device's named and press Enter

You should now be connected

Connecting to IOS Device

Make your device discoverable

On iPad activate VoiceOver

In settings, Bluetooth and tap on your APH device

Press Home key on Mantis or Chameleon

Press T for Terminal and press enter

Press Enter on Connected Devices

Arrow down to your device's named and press Enter

You should now be connected

Predictive Text

On iPads

IA Writer

Enter text field

Shift braille cursor focus to predictive text suggestions

Press enter on the word that you wish to insert

Chromebook/ChromeVox

The Mantis works with ChromeVox very well

Only the USB connection works

CapsLock key becomes Search key

Quick Tips

1. Context Menu (right click)

- Space M for Chameleon
- Ctrl M for Mantis

2. Use the Braille Viewer in JAWS to see what is on the students display in print and SimBraille on the screen

- Go to Utilities, Braille and Text Viewer, Enable Braille Viewer
- Insert+Space, B, B
- Or say "Sharky, start Braille Viewer"

Mantis Chameleon User Group

[Sign up with this link](#)

Input your email,

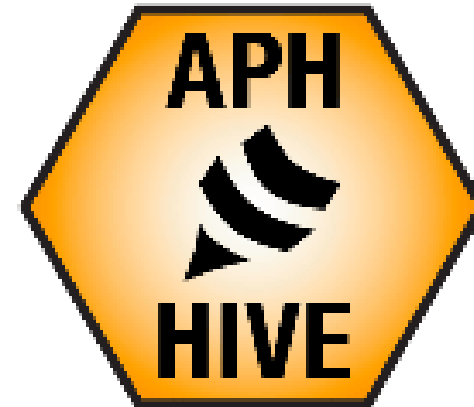
Keep Subscribe selected in the dropdown, and

Then select Next.

You should then get an email to confirm your email address.

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THANK YOU

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