

**APH Products and Services**  
for the

**39<sup>th</sup> Annual CSUN Assistive  
Technology Conference**  
**2024 Conference**



AMERICAN  
PRINTING  
HOUSE 

# Braille Solutions

## Monarch™

APH, HumanWare, and NFB have partnered to develop the [Monarch](#), formally referred to as the DTD, a self-contained standalone tactile tablet capable of running a multitude of apps optimized for enhancing the efficiency of a blind or low vision user. This device is capable of rendering multiple lines of braille and tactile graphics on the same tactile surface, which in turn will skyrocket braille literacy, efficiency, and accessibility. This tool helps level the playing field for students, enabling them to receive braille instructional materials at the touch of a download button instead of waiting weeks or months for embossed braille textbooks to be transcribed and shipped. To receive the latest announcements regarding APH's Monarch, please sign up for our [Mailing List](#).

In addition to running its own apps, APH and HumanWare will be working with strategic partners to utilize an SDK being developed to create apps and experiences we haven't yet thought of. If your organization is interested in developing for this exciting tool, please contact the team at [DTD@aph.org](mailto:DTD@aph.org).



# Braille Solutions

## Mantis™ Q40

No longer choose between a keyboard or a braille display! The [Mantis Q40](#) has a refreshable braille display of 40-cells below its full QWERTY keyboard, providing the convenience of a keyboard with the precision of braille. Connect other devices via USB or Bluetooth®, or use the Mantis by itself to read books, edit and manage files, check the date and time, and make basic mathematical calculations.

## Chameleon™ 20

Developed specifically for education with students in mind, the [Chameleon 20's](#) 20-cell refreshable braille display and Perkins-style keyboard provides a comfortable reading and writing experience. Use as a stand-alone notetaker or as a braille display to edit assignments on the computer. 2.0 Software Update includes text-to-speech (TTS) in English and Spanish!

## PageBlaster™

APH and HumanWare have partnered to produce a portable and powerful braille embosser with a tractor-fed design that provides smooth paper handling and produces double-sided interpoint braille. Use [PageBlaster](#) to emboss PRN files from APH's Tactile Graphics Image Library or create your own using the included Firebird tactile graphics software.

## PixBlaster™

The [PixBlaster](#) combines tactile graphics with braille text. This embosser allows users to easily produce double-sided interpoint braille with smooth, rounded dots for improved readability along with industry-leading, high-quality tactile graphics with seven variable dot heights for color representation. Connect to Wi-Fi to translate and emboss documents on the fly from your computer or mobile device using the included PIXie box.

# Accessible STEM and Tactile Literacy

## Accessible Code & Go<sup>®</sup> Mouse

The [Accessible Code & Go Mouse](#) provides a hands-on introduction to coding concepts and tactile graphics as students program Colby the mouse to race through the maze toward the cheese. Students will learn problem-solving, critical thinking, if-then logic, O&M skills, route planning, and much more.

## Code Jumper<sup>™</sup>

Originally designed by Microsoft<sup>®</sup> and developed by APH, [Code Jumper](#) teaches computer coding and programming skills through a unique, physical system. Code Jumper technology takes block coding off the screen and puts it on the table in front of you, making it accessible and fun for the whole class. Brightly colored plastic pods with oversized buttons and knobs are connected by “jumper cables” (thick cords) to physically create computer code that can tell stories, music, and even crack jokes.

Code Jumper gets eight new, “choose your own adventure” type puzzles! Join CJ, a cat-like alien, as they adventure across these exciting puzzles to learn more about Earth. The adventures incorporate coding activities such as: algorithms, loops, sequences, constants, and more. [Download Code Jumper Puzzles for free!](#)

## Snap Circuits<sup>®</sup> Jr. 130 Access Kit

Learning basic electronic concepts is a snap with the [Snap Circuits Jr. Access Kit](#) — an accessible version of the popular educational toy, available exclusively from APH. Now students who are blind or visually impaired can learn about circuits, currents, resistance, switches, motors, and other basic electronics concepts alongside their sighted peers, preparing them for STEM career opportunities in the future.



# Accessible STEM and Tactile Literacy

## RC Snap Rover

The [RC Snap Rover Access Kit](#) is an innovative tool that provides hands-on electronics education for students. Snap together colorful Snap Circuits® parts to build an RC Snap Rover that can zoom across any surface with the included wireless remote control.

## SPORTS COURTS

The [SPORTS COURTS](#) kit helps students who are blind or low vision familiarize themselves with the layout of various sports courts and fields, including Baseball, Basketball, Bowling, Football, Goalball, Lacrosse, Soccer, Swimming, Tennis, Volleyball, and more through tactile maps and interactive 3D pieces. The 18 chapter-booklets detail specific recommendations for sport instruction, equipment modifications, and gameplay accommodations.

## Life Science Tactile Graphics

A collection of 56 vacuum-formed, full-color raised-line [tactile graphics](#) that depict organisms, processes, concepts, and patterns typically covered in middle-and high school life science courses.

## Build-a-Cell

The [Build-a-Cell](#) helps students who are blind or low vision understand the fundamental characteristics of various cell types by providing a full color, tactile, and interactive representation of the internal and external structures of bacterial, animal and plant cells.

## DNA Twist

Demonstrates the structure of the DNA molecule in a way that is accessible to low vision students! [DNA Twist](#) is made of two colorful interlocking foam sidebars representing the different components of the molecule. The stand holds the DNA in its twisted formation, and a short instruction booklet provides information and educational resources.

# Magnify Your World

## Juno

The [Juno](#) is a great magnifying solution for use during work and recreational activities. Juno can capture and process multiple pages of printed text using Optical Character Recognition (OCR), giving users the option to read the document themselves on a 7-inch LCD touchscreen or have the text spoken aloud using text-to-speech (TTS). Plus, Juno's 180-degree rotating barrel camera supports four camera modes (self-view, reading-view, distance-view, and writing/hobby-view), enabling users to complete grooming tasks, view documents, read a bulletin board, fill out a form, sew, and much more!

## Jupiter Portable Magnifier™

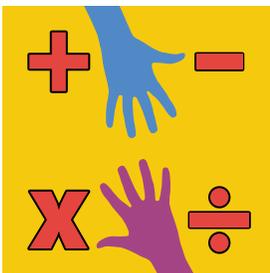
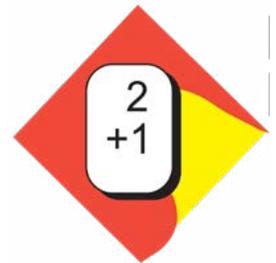
The [Jupiter Portable Magnifier](#) is a sleek and compact device that helps users of all ages with low vision or vision loss see the world in high definition. With three easy-to-use distinct camera modes, this powerful magnifier allows you to continue those activities that bring joy to everyday life while exploring new opportunities for lifelong education.



# Apps and Games

## Mobile/Desktop Apps, Skills/Actions

Enjoy hours of fun and learning with APH's variety of [FREE apps](#) for desktop, Chromebook, and mobile devices. Amazon Alexa® users can also join the party by trying out these [APH skills and actions](#).



The [APH Press](#) carries on the legacy of AFB Press as the leading publisher in the field of blindness and visual impairment. APH Press publishes educational content, including textbooks for teacher preparatory programs, in the field of blindness and visual impairment to support teachers, families, and other professionals. A recent release includes:

- [Access Technology for Blind and Low Vision Accessibility](#) emphasizes opportunities for independence, leadership, and timely access to information for people who are blind or low vision. Access Technology is a follow-up to the 2008 edition edition that gives an overview of currently available technologies and tools and presents a new process for technology evaluation that ensures every student is supported to build the toolbox they need to break down barriers to access. Rather than using pre-determined checklists to evaluate technology skills, authors Yue-Ting Siu and Ike Presley present an inquiry-based approach for identifying needs related to individual instruction, advocacy for accessible formats, and how to achieve equity in information-rich environments.
- [Babies with CVI: Nurturing Visual Abilities and Development in Early Childhood](#) presents specific approaches, strategies, and activity suggestions that families and visual impairment professionals can use to meet the unique learning needs of a child with CVI. This guide includes the history and best practices related to the treatment of CVI in children from birth to 36 months.
- [ECC Essentials: Teaching the Expanded Core Curriculum to Students with Visual Impairments](#) is the first comprehensive book for teachers of students with visual impairments to focus on the nine areas of the Expanded Core Curriculum (ECC) that encompass the unique skills children and adolescents with visual impairments need to learn to access the core educational curriculum and become independent individuals, by providing the rationale, suggestions, and strategies necessary to implement instruction.



# The Dot Experience

## A New Global Attraction

The The Dot Experience is an all-new destination being designed by American Printing House for the Blind (APH) and scheduled to open in 2026. Our mission is to change perspectives about blindness, encourage people to act in their own ways to make the world more welcoming for everyone, and lead as a model museum of inclusivity and accessibility. The Dot Experience will share:

- compelling first person stories of blindness and the human experience.
- cutting edge innovations of past, present, and future conceived and created by and with people who are blind or low vision.
- world-class treasures like Helen Keller's desk, the piano Stevie Wonder played as a child, the first guide dog harness, and a rare 1829 book by Louis Braille.
- an unprecedented set of applied inclusive design standards that puts disability access front and center.

## Influencer Campaign

As APH works to build the most accessible museum in the world, we want to showcase the people who have been influential in ensuring accessibility both within communities and across the world. In addition to the individuals featured in The Dot Experience, we want you to be able to honor your influencers, too! Learn more about our new fundraising initiative and how you can ensure your influencer's legacy will be forever a part of The Dot Experience in our blog, [Legacies of Influence: Honoring the Impactful Individuals in Our Lives](#).





**FREE, self-paced  
online braille  
tutorials!**



**SCAN ME**



Welcome to the [APH ConnectCenter](#)! This website offers FREE curated advice and resources to assist children, parents, adults, and job seekers who are blind or low vision, and their associated professionals. Through this website, you are able to access these ConnectCenter resources and much more:

- [FamilyConnect](#): Offers support and resources for families of children who are blind or low vision.
- [CareerConnect](#): Employment information, tools, and guidance for job seekers who are blind or low vision.
- [VisionAware](#): Designed for adults and seniors who are living with vision loss.
- [ConnectCalendar](#): For use by the entire blindness field to find and promote events, all in one place. [Promote and share](#) your organization's event by adding it to the Calendar or [discover upcoming events](#).
- [APH ConnectCenter Transition Hub](#): Planning for graduation and life after school brings up a lot of questions. Find information about transition programs that emphasize empowerment, career exploration, and work experiences for teens and young adults who are blind or low vision.

Have questions related to blindness or vision loss? Call APH's Information & Referral Hotline: (800) 232-5463 or e-mail us at [connectcenter@aph.org](mailto:connectcenter@aph.org).

# Services/Resources

## APH Hive

Buzz over to the [APH Hive](#), APH's FREE eLearning platform for educators and families that can be accessed at any time from the comfort of your home or office. With a growing course catalog covering categories like Early Childhood, Expanded Core Curriculum, and more, we want to give you the tools you need to support students. All you have to do is sign up, watch the course content at your leisure, and complete the follow up assignment to get your certificate for ACVREP credit! [Register and get started today.](#)

## Outreach Services

[APH's Outreach Services](#) team strives to increase awareness about the many resources and services offered by APH. These include, but are not limited to, the following: distance learning and statewide/nationwide training opportunities; exhibits and presentations at regional, statewide, and national conferences; expanded core curriculum academies/professional learning communities, and parent and family training opportunities. Outreach Services consists of three branches:

- Outreach Specialists for regional support.
- APH Hive for professional development.
- Census for the federal quota program.

APH continues to expand its reach through our strategically placed Regional Specialists. Regional Specialists meet the unique needs of EOTs, professionals, families, and other service providers working with students who are blind or low vision by providing tailored support to communities. These experienced professionals are charged with sharing craft knowledge across the field, building local networks of support, assisting with APH products and services, and facilitating solutions. Regional Specialists are available to provide support at conferences, regional Braille Challenges, colleges/universities, public and private schools, rehabilitation centers and more.



# Services/Resources

As part of APH's ongoing goal to provide regional support, we are working towards establishing regional centers for assistive technology training. The first established regional partnership, the Center for Assistive Technology Training (CATT), is a collaboration between APH and the Alabama Institute for the Deaf and Blind (AIDB). Our team is here to build, train, and support our field and all those working for our students' success.

Contact us at [outreach@aph.org](mailto:outreach@aph.org).





**Thank  
You for  
Supporting  
APH**

As a not-for-profit, 501(c)(3) organization, APH values our thoughtful, informed donors who ensure that we are able to serve a growing population of people of all ages who are blind or low vision – across the nation and around the world. Our programs, initiatives, services, and products empower people with vision loss to live as independently as possible. Your contribution makes that happen. You are a part of the APH community – and we are truly grateful for your partnership. Please donate at [bit.ly/donateaph](https://bit.ly/donateaph) or contact the APH Development Department by phone at 502-899-2351 or email at [development@aph.org](mailto:development@aph.org).

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