Dot Pad 320 (DPA320A)

User Guide

Dot Incorporation

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1. About Dot Pad 320 (DPA320A)

1.1. What is the Dot Pad 320?

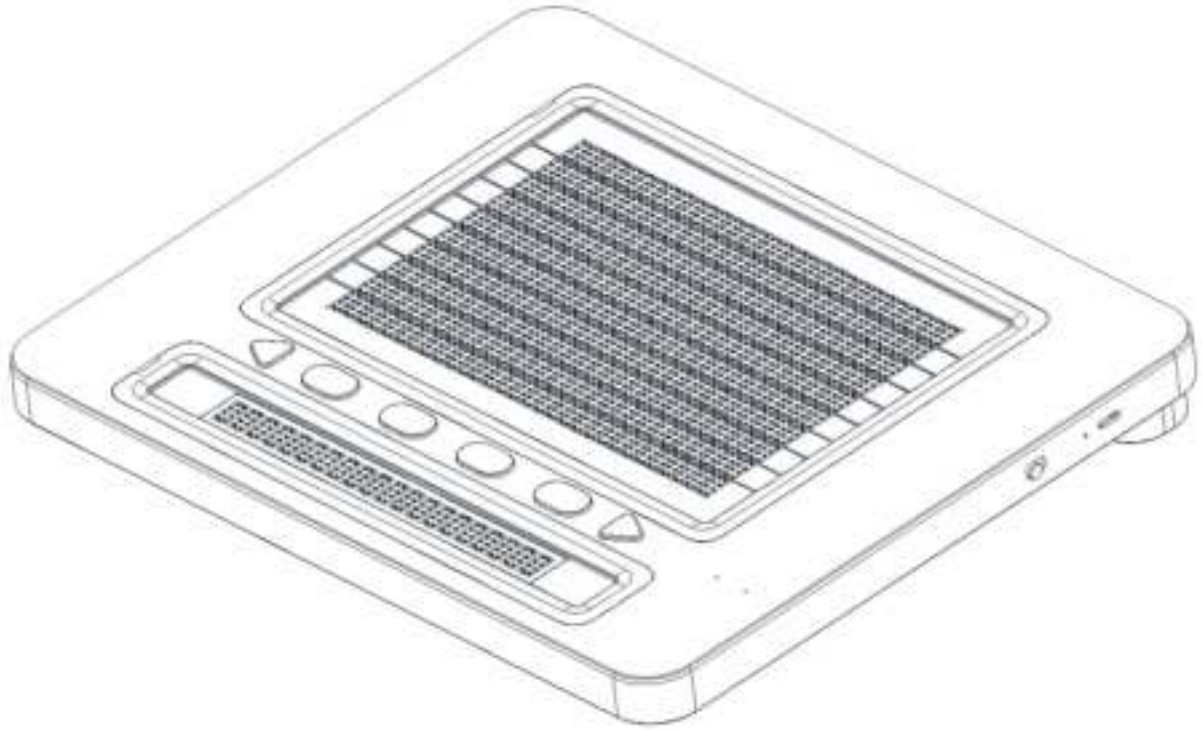
The Dot Pad 320 is a display that can simultaneously represent Braille text and tactile graphics. You can connect to and use your iPhone & iPad with OS 15.2 or above installed. When you connect to your iPhone and iPad, you can print the pictures, photos, and icon shapes that appear on the screen as tactile information to the Dot Pad 320 in real-time. Alternatively, you can use a dedicated SDK released by Dot to output tactile information from specific applications to the Dot Pad 320.

1.2. Components of Dot Pad 320

When you purchase a Dot Pad 320, it includes the following components:

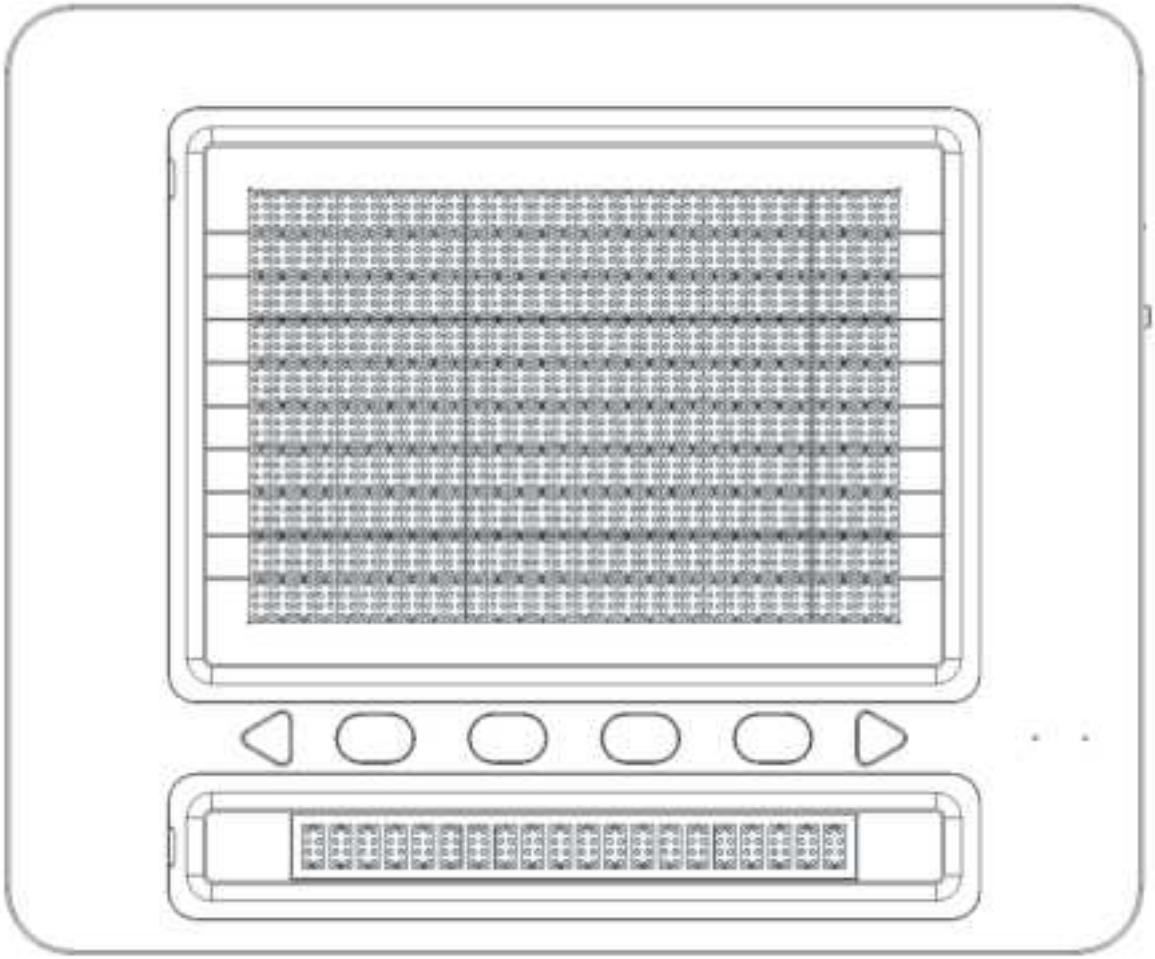
Configuration and Support	Body and battery	1
	Quick Guide (Braille)	1
	Dot Pad Case	1
	USB cable	1
	Warranty Period	1 year

1.3. Dot Pad 320 Appearance



When the Dot Pad 320 is removed from the box and placed on the desk, the square body is slightly inclined towards the side of the body and is in the correct position. The side closer to the body (the lower slope) is the front, and the farthest side from the body (the highest side) is the rear. The main areas that control the devices in the Dot Pad 320 and output braille are located on the top right sides, on the left side, and on the bottom plane. Therefore, this manual provides guidance on the top and right sides, the left side, and the bottom surface controls.

1.3.1 Dot Pad 320 Top view



When the Dot Pad 320 is normally placed, the upper surface of the Dot Pad 320 is divided into the following parts from nearest to farthest from the body:

- Braille text display area.
- The keyboard area where the panning and function keys are gathered.
- The graphic area where the tactile graphic is displayed.

The Braille text display area serves as the braille output of a typical braille information terminal; it consists of 20 cells in a long horizontally rectangular frame, arranged at standard braille spacing. Thus, 20 alphabetic characters can be represented at the same time.

Starting from the left to the right, the keyboard area consists of the previous panning key, keys F1 through F4, and the next panning key. The shape of the panning keys is a triangle, which distinguishes them from other Function keys which are in an oval shape.

- Note: A panning key is a key that moves to the previous and next line along the braille cells.

The Function key can be used to connect with the voiceover. The key operation method is as follows (description in the brackets are the actions taken on your device to achieve the same results):

- F1: Moves from the currently focused object to the previous one. (Swipe one finger to the left)
- F2: Go to Home.
- F3: Executes the currently focused object. (Double-tap with one finger)
- F4: Moves from the currently focused object to the next object. (One finger right swipe)

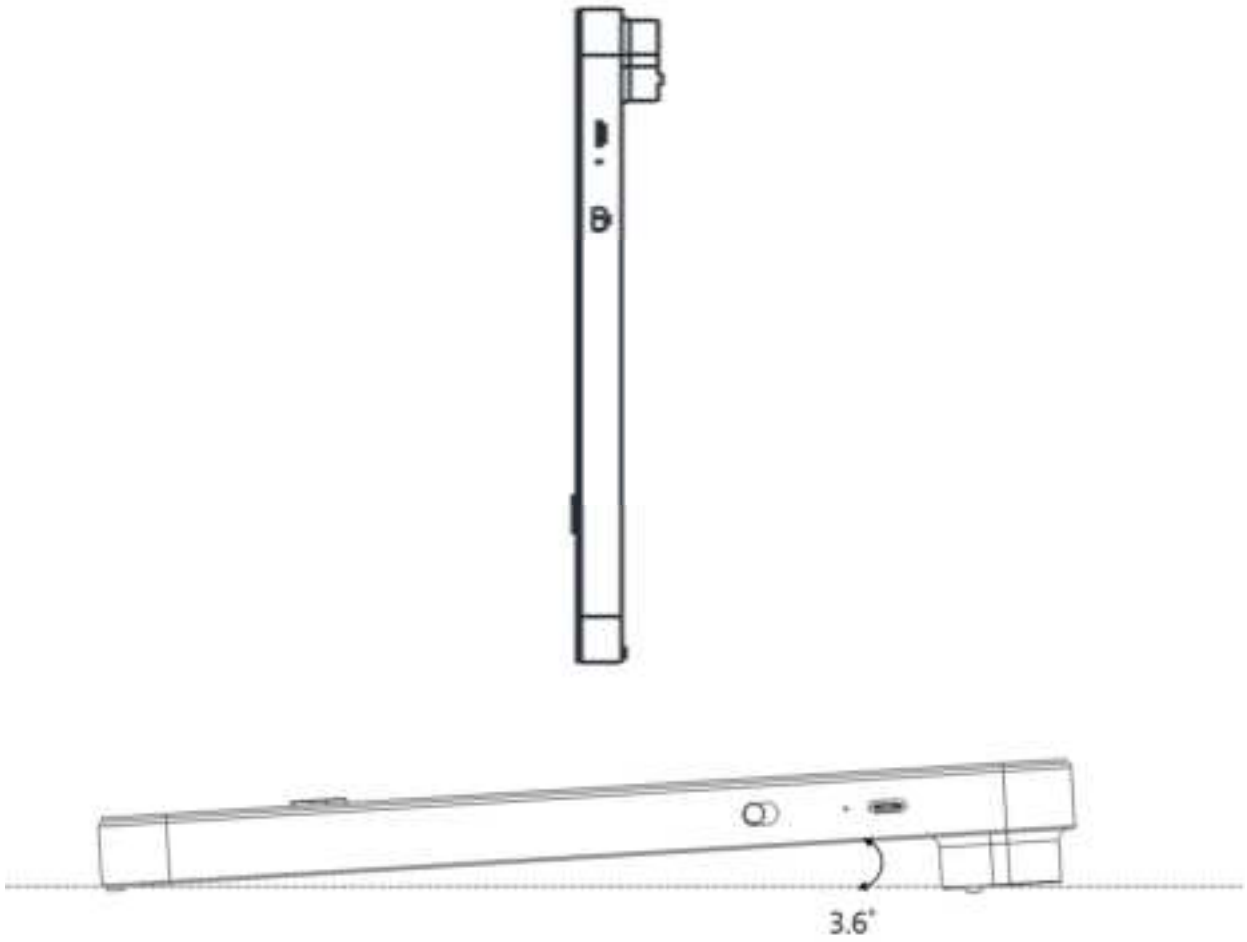
The rightmost part of the keyboard area is the LED area.

Bluetooth (blue)		Charging (red)	
Flashing	Pending connection	**LED off**	Charging off
LED on	Connected	**Flashing**	Charging error
		LED on	Charging

Braille Graphics information terminal is the area occupying the largest space and is the area for outputting tactile graphics. The cells more densely populated than the braille cells can be used to output images that appear on iPhone and iPad screens in real time. Alternatively, tactile graphic content can be displayed from a dedicated application that supports Dot Pad 320.

A cell in the tactile graphics area consists of 300 cells (30 wide by 10 vertical) with 8-point pins. All the pins are placed in equal intervals up and down, left and right, for sophisticated graphical representation.

1.3.2. Dot Pad 320 Right Side



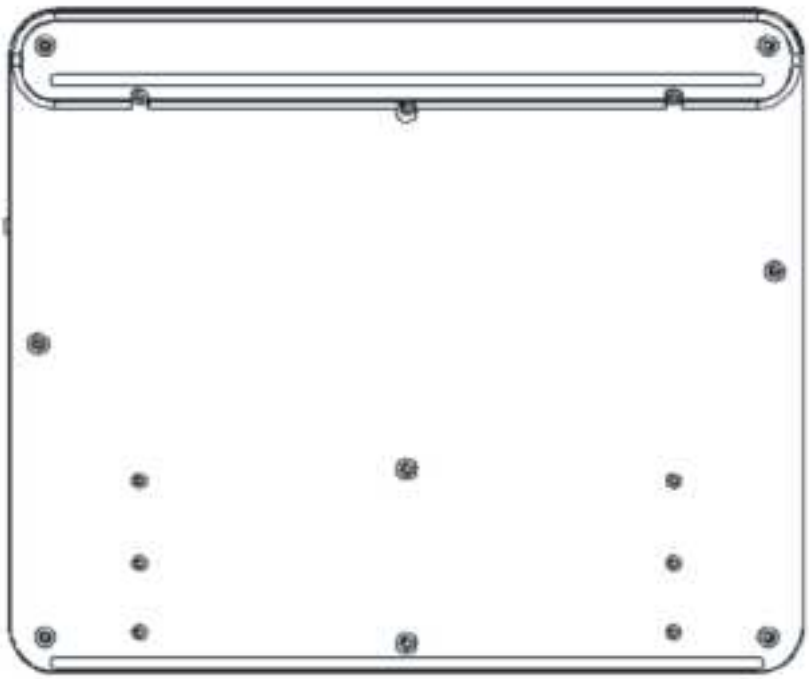
On the right side of the Dot Pad 320, starting from the rear to the front, there is a USB C type power charging port, followed by a power switch. A USB C type power port is a power only port. Keep in mind that there is no data transfer.

The power switch powers on when pushed up to the far side of the body. As the power is turned on, a long vibration feedback occurs. For more information on the vibration pattern, see section 2.3 "Understanding device information with a Dot Pad 320 vibration signal". Pulling the power switch toward the front will turn it off.

1.3.3. Dot Pad 320 Left Side

On the left side of the Dot Pad 320 is a USB C type port for data transfer. You can connect it to your PC via USB C cable. This port is a mode that the administrator can control.

1.3.4. Dot Pad 320 Bottom Surface



The bottom surface of the Dot Pad 320 has a battery part and a screw part that can replace the film for braille cell protection. The batteries provided in the Dot Pad 320 are not designed to be detached, so when replacing the batteries, be sure to replace them with us or through a company authorized by Dot.

To replace the braille cell protective film, dismantle the screws on the screw part using a screwdriver. For more information on the protective film, please contact Dot Inc.'s customer service.

1.4. Hardware specifications

Hardware Specifications	Tactile Display	300 cells
	Braille Display	20 cells
	Processor	ARM Cortex-M4 32-Bit 120MHz
	RAM	64 Kbyte
	Flash Memory	128 Kbyte
	External Memory Support	None
	Wireless Connection	Bluetooth LE V5.0
	Sensor	None
	Camera	None
Exterior Specifications	Size (vertical x horizontal x thick, mm)	273.6(L) x 228.5(W) x 31.0(H)
	Weight (g)	1,200±10%
Keyboard and buttons	Function Keys	Function Key 4ea
	Panning Key	Left, Right
	Power Switch	Power ON/OFF 1ea
	Keyboard	None
USB interface	USB-C (left)	Data
	USB-C (right)	Power and Charging
Audio and video interface	Speaker	None
	Microphone	None
	HDMI Video Output	None
Temperature	Operating Temperature	0℃ ~ +50℃
	Storage Temperature	-20℃ ~ +70℃
Charging and battery	Battery	LI_ION, INR18650 35E, 10.05A, 36.18W[1S3P]
	Charge	QC DC 5V 3A / 15W

1.5 Software Specifications

Communication (Bluetooth)	Specification	Bluetooth V5.0 (LE up to 10Kbps)
	Output Power	0 dBm
	Data rate	10 kbps
	Profile	GAP, GATT, SM, L2CAP and Integrated Public Profiles
	Sensitivity	-90 dBm

2. Basic Functions

This section walks you through how to check the braille cell status of a Dot Pad 320 before you connect it to your iPhone or iPad, and the different vibration patterns that you can use to check the status of your Dot Pad 320.

2.1. Checking the Dot Pad 320 Cell Operation
The Dot Pad 320 verify the normal operation of the braille cells lowering all cells. The function and detailed operation methods is as follows:

- Lower All Cells: Sometimes a previously displayed cell may not be able to go down, for example, if the Dot Pad 320 suddenly loses power. When you turn it back on, and then run Down All Cells, both the braille cells and the graphic cells that were up go down. To perform this function, press the previous panning key and the next panning key at the same time and then release them. All the cells that were up are reset downwards.

2.2. Understanding device information through Dot Pad 320 vibration signals.
Because the Dot Pad 320 does not have a separate external speaker, it displays the device's operating status through a vibration pattern. The vibration pattern informs the user of information such as battery status, Bluetooth connection, power on, etc. Details are shown below:

- Power on: A long vibration occurs once when the power switch is pushed towards the back.
- Power Connection: If the power cable is connected normally, it will vibrate to indicate the current battery level.
- Battery Status Indication: Displays the remaining battery level through vibration between 1 and 5 times. For more information, see section 2.3 “Check the battery level”.
- Bluetooth connection successful: Two long vibrations will sound.

2.3. Checking the battery level
To check the battery level of the braille graphic information device, you can press and hold the previous and next panning keys at the same time for at least 1.5 seconds while powered on, and then release them. The levels for displaying the remaining battery are divided into 5 levels and are notified by vibration feedback. Each pattern is shown below:

- Vibration #5: The battery is at least 80%.
- Vibration #4: The battery level remains between 60% and 80%.
- Vibration #3: The battery level remains between 40% and 60%.
- Vibration #2: The battery level remains between 20% and 40%.
- Vibration #1: The battery level is less than 20%. Be sure to use it after connecting it to a power source.

3. Connecting Dot Pad 320 to iPhone/iPad

The Dot Pad 320 works properly when connected to and used with an iPhone or iPad. You must have Voiceover turned on the iPhone and iPad to which you want to connect the Dot Pad 320, to connect with ease. Before connecting the Braille Graphic Information Device to your iPhone or iPad, your iPhone and iPad must have an operating system version of iOS 15.2/iPad OS 15.2 or above. Here's how to check your operating system version:

- Go to Settings > General > Software Update on your iPhone or iPad.
- Make sure your software version is iOS 15.2/iPad OS 15.2 or above.
- If you have an older version than iOS 15.2 installed, click the Software Update button that appears at the bottom of the screen to proceed with the operating system update.
- If the update doesn't appear, make sure your iPhone and iPad supports iOS 15.2/iPad OS 15.2.

If your iOS or iPad OS is 15.2 or above, follow these steps to connect the braille graphic information device. This guide assumes that Voiceover on your iPhone and iPad is turned on and will guide you through how to connect:

- Turn on the Dot Pad 320.
- The Dot Pad 320 Bluetooth on the device goes into Connection Standby.

- Go to Settings on your iPhone or iPad > Accessibility > Voiceover.
- Scroll through the screen, find the "Braille" button, and double tap to enter.
- At the bottom of the screen, you'll see a list of braille displays that you can currently connect to via Bluetooth.
- Use the four-finger tabs at the bottom of the screen to move to the end of the screen.
- Use the one-finger swipe gesture to locate and select the "DPA320A xxxx (unique code for each device)" device. This is the name of the Dot Pad 320 device.
- When connected, Voiceover on your iPhone or iPad beeps that you're connected to a braille display, and two vibrates sound from the Dot Pad 320.
- The Dot Pad 320 is connected.

3.1. Disconnecting the Dot Pad 320

To disconnect the Dot Pad 320 from your iPhone or iPad, follow these steps:

- Go to Settings on your iPhone or iPad > Accessibility > Voiceover.
- Scroll through the screen to find and run "Braille".
- Scroll to the bottom of the screen and find the "DPA320A xxxx (unique code for each device)" device.
- On iPhones and iPads, use Voiceover's rotor by rotating two fingers clockwise or counterclockwise to go through options, to find "action". (By default, the rotor value is automatically placed as “action”.)
- Swipe one finger up or down to select "More Information."
- Use the double-tap of one finger to execute additional information.
- Find and run the "Forget this device" button.
- When the “Forget Device” warning window appears, locate, and run the "Forget Device" button.
- When the Dot Pad 320 is disconnected, Voiceover outputs a sound that the braille display is disconnected.
- The Dot Pad 320 is disconnected from the iPhone or iPad.

4. Connecting Phone/iPad with Dot Pad 320 to Read Braille and Tactile Images

The Dot Pad 320 can display braille text and graphics. Braille text is displayed in the area of braille cells close to the front, and the graphic appears in the graphics area that occupies the largest area. This section walks you through Voiceover to view basic braille and graphic information.

4.1. Reading Braille Text

The way you read braille text is the same as how you use other braille displays. Voiceover displays what it outputs as speech, through text and its dedicated symbols; if you can't display all the text at once, use the previous and next panning keys to move the lines to read the following braille text.

4.2. Displaying the Image (Default)

When Voiceover determines that a particular object has image information on the screen, it immediately outputs the image information of the currently focused object to the Dot Pad 320, which you can use as follows:

- Move to the home screen with the Dot Pad 320 connected.
- Focus on any application on the home screen.
- The appearance of the application icon appears in the graphic area of the Dot Pad 320.
- In the braille area, what Voiceover outputs to speech is simultaneously displayed in braille text.

4.3. Reading images in detail with rotors

4.3.1. Adding Image Navigation Options to the Rotor

Voiceover provides a number of features that allow visually impaired users to see the tactile image being output in detail. Adjusting the line thickness of the picture, enlargement of the image, and more. To use the related features, you need to add the functions to the rotor. To add such functions, follow these steps:

- Go to Settings > Accessibility > Voiceover.
- Find and run the rotor button.
- Scroll the screen to find "Braille Zoom", "Braille thickness", "Rotate braille horizontally", "Rotate braille vertically", "Invert braille", and double tap each item to select it.
- If the message "Selected" was added to each item, it is added to the rotor.

4.3.2. Using Image Inversion

Inverting an image is a function that converts an image’s outline from being embossed to being engraved. When you run the Invert Image function, the image outline appears engraved within the tactile frame of the square shape; here's how to use it:

- Focus on any image object. (e.g. application icon on the home screen)
- Notice that the image is displayed in the Dot Pad 320 graphics area.
- Move the rotor of the Voiceover and place it to "Invert braille".
- Swipe down with one finger to select "Invert".
- The output image of the Dot Pad 320 is reversed.
- If you want to recover to the default, select "Invert braille" on the rotor, and then adjust it to "Standard" by swiping one finger up.
- The image reversal is turned off.

4.3.3. Enlarging an Image

Voiceover provides the ability to magnify the image output to the Dot Pad 320 so that you can see tactile graphics in detail. The default image scale is 1.0 and can be magnified up to 10.0. The image magnification function can be used as follows:

- Focus on the object with an image. (e.g. focus on any application on the home screen)
- In the rotor options, select "Braille Zoom".
- Swipe one finger up and down to adjust the magnification ratio.
- The currently focused graphic appears in the graphics area to match the magnification ratio you specify.

4.3.4. Scrolling Images Horizontally and Vertically
If the image is enlarged at a size that it is difficult to display it all at once in the Dot Pad 320 graphics area, you can scroll the image left, right, up, and down to see the full picture of the image. "Rotate braille horizontally" and "Rotate braille vertically" are these features. Detailed usage is shown below.

- Note: This feature can be used with the image magnified by more than 1.5 times.

- Focus on the object that contains this image. (e.g. any application on the home screen)
- Enlarge the image on the "Braille Zoom" rotor.
- Align the rotor option with "Rotate braille horizontally".
- Swipe down with one finger to increase the value.
- The graphics of the Dot Pad 320 scrolls to the left.
- To scroll the image to the right, swipe up with one finger to lower the value.
- If you do the same in "Rotate braille vertically," the image displayed in the Dot Pad 320 scrolls up.

4.3.5. Adjusting the Image Line Thickness
If you want to see the line thickness of the displayed image in the Dot Pad 320 as thicker or thinner, this feature allows you to adjust the line thickness; here's how to use it:

- Focus on an object that contains an image. (e.g. home screen application)
- In the rotor options, select "Dotted Lines Thickness".
- Swipe one finger up or down to adjust the line thickness. You can adjust the values from 0.1 to 1.0.
- The default value is 0.3.

4.4. Viewing Images Using Voiceover Recognition
When Voiceover does not recognize any object as an image, image information can be collected using artificial intelligence (AI) to view the relevant image on the Dot Pad 320. Take advantage of Voiceover recognition introduced in iOS and iPad OS 14 versions. When you analyze an image of a random object through Voiceover recognition, that image is simultaneously sent to the Dot Pad 320. Voiceover outputs the image generated by the AI in speech and braille. We'll walk you through the details in the sections below.

4.4.1. Creating Image Recognition Gestures
To use Voiceover recognition to send an image to the Dot Pad 320, you must manually add a gesture that allows you to run Voiceover recognition; here's how:

- Go to Settings > Accessibility > Voiceover.
- Find and launch the Recognize Voiceover button.
- Locate the Image Description button and make sure that the image description is turned on.
- If the image description is off, double tap the Image Description toggle button to switch it to On.
- The data required for the image description is then downloaded.
- After completing the download, use the Back gesture or press the Back button to exit Voiceover.
- Launch the "Command" button and then go to "Touch gestures".
- In this guide, we're going to set the four-finger tap to launch Voiceover Recognition.
- Find and execute the four-finger tap of the touch gesture.
- Find and select "Image Description" from the list of desired features.
- If it was added, a four-finger tap will use AI to describe the contents of the image on the current screen.

- Note: Voiceover recognition is available starting from iPhone XS or iPad with a 2nd generation, both which have a neural engine chipset.

4.4.2. Using the Image Recognition Function to View an Image
If your Dot Pad 320 is connected to your iPhone or iPad, and Voiceover Recognition is enabled, manually launch the image description function using a four-finger tap where you want to view the image. You can view the analyzed image along with a description of the image by sending it to the Dot Pad 320.

5. Viewing Images **(**Advanced Feature**)**

This section will guide you to utilize images in a variety of applications by connecting the Dot Pad 320 to photo galleries, and other image storage.

5.1. Viewing Photo Gallery Images
You can view tactile images stored on your device or images stored in iCloud or other clouds, directly through the Dot Pad 320, as well as hear image descriptions using Voiceover recognition. This section walks you through how to view images stored in the Photo Gallery.

- With the braille graphic information device connected, open the Photos app on your iPhone or iPad.
- Select an album and focus on a photo.
- The selected photo, along with the image description, is output in real time to the Dot Pad 320.
- If the photo image is not output to the Dot Pad 320, you can use Voiceover recognition to manually transfer the image to the Dot Pad 320.

5.2. Viewing Images in the Camera Viewfinder
The image displayed in the camera viewfinder can be sent to the Dot Pad 320 for real-time viewing. Here's how:

- Launch the Camera app on the iPhone or iPad that the Dot Pad 320 is connected to.
- Focus on the viewfinder.
- The image of the viewfinder is sent to the Dot Pad 320 and displayed in the graphics area.
- If the image is not displayed, use Voiceover recognition to manually transfer the image from the viewfinder.

5.3. Viewing Images on a Web Page
In Safari, you can view images embedded in a webpage through the Dot Pad 320. Alternatively, you can do the same with other web browsers and Social Media applications. The principle of viewing an image with a Dot Pad 320 is as described above. This section walks you through adding an image navigation rotor to quickly find and view an image.

- Go to Settings > Accessibility > Voiceover.
- Find and run the rotor button.
- Locate the image item and double tap it to select it.
- You can then set the rotor to image in web pages and social media applications, and then swipe one finger up or down to quickly navigate through the images.
- When you focus on an image, the image appears in the Dot Pad 320 graphics area.
- If the image does not appear, you can use Voiceover recognition to send the image to the Dot Pad 320.

    - Note: In many other applications, Voiceover recognition can be used to view a wide range of images on the Dot Pad 320.

6. Customizing the Dot Pad 320 Keys

The panning and function keys on the Dot Pad 320 can be modified to suit the characteristics of your personal usage. Modifying the keys is in effect when in use with Voiceover. For example, you can modify the F1 key from moving to the previous item to toggle the screen curtain. Detailed instructions include:

- With your device connected to the Dot Pad 320, go to Settings > Accessibility > Voiceover.
- Scroll through the screen to find and run the "Braille" button.
- Find and focus on "DPA320A xxxx (unique code for each device)".
- Adjust the rotor to motion. (Unless it's a special case, the rotor options are automatically adjusted to motion by default.)
- Swipe one finger up or down to select "More Information", and then double tap it.
- Find and select the "Braille Command" button.
- The command options are listed.
- The options are "Braille", "Devices", "Interactive", "Keyboard", "Navigation", "Rotor", "Voiceover".
- Select the desired option. (This guide uses “Navigation” as an example.)
- Find and select "Browse".
- Find and select "Next Paragraph".
- Find and select "Assign a new braille key" button.
- When the pop-up appears, customize a key to perform “Previous Paragraph” on the Dot Pad 320. This guide uses the previous panning (left arrow) key.
- If you press the previous panning (left arrow) key, a warning message appears that it is already in use.
- To ignore and modify the key, run the "Assign a new braille key" button.
- Now the panning key performs the new function of moving to the previous paragraph.
- To keep the key intact, use the Back gesture in Voiceover to exit the warning pop-up.

7. Handling and Safety Precautions

The contents of this manual may differ from the actual content depending on the software version of the product, the specifications of the model, and the user's settings. Do not use the product for any purpose other than the original purpose. Use with caution as the product may be damaged if impacted.

- Keep the dot pads dry. If it is used in a humid place or is wet with water, the product may not work regularly.
- The dot pad has a built-in magnet. Do not place it close to other magnetic products or metals. There is a risk of damage to the product.
- Use on a table away from the body and when used in a dusty area, foreign objects may get inside and interfere with operation.
- Use accessories provided by Dot Incorp., Ltd. Use of other accessories may cause the product to malfunction and may result in the Company not receiving the warranty service provided by Dot, Inc.
- If pressure is applied while the braille cell is moving, the product may not function normally. In this case, it is not a breakdown, so we suggest you remove your hand and try again.
- If the product is used in the opposite direction, it may not be able to represent the braille correctly.
- Some product specifications are subject to change without notice to better serve you.
- If the dot pad firmware provided by Dot Incorp., Ltd. is changed or applied to the product through an unofficial channel, it may cause damage to the product or cause errors. In this case, the warranty service is not covered.
- Since the dot pad has the possibility of radio interference during use, it cannot perform services related to human safety.
- When charging the dot pad, the product temperature may rise, and if the temperature of the battery rises above a certain level, the charging may be automatically stopped for safety reasons.

Use with safety in the following situations:

1. Do not use Dot pad in a severe lightning storm.
During severe lightning and thunder, refrain from using the product and disconnect the charger from the power source. It can cause injury or a fire.

2.Do not use Dot pad in prohibited areas.

Do not use in areas where use of the product is prohibited, such as airplanes or hospitals. Electronics and communication products can be affected by electromagnetic waves.

3. Never disassemble and modify.
Do not disassemble or shock the product. There is a risk of electric shock, short circuit, or fire. Warranty services do not cover disassembly of the product. Do not use it in a damaged or broken state. It causes fires, burns, and electric shock. In this case, please contact customer service.

4. Use only the correct power cable and the power outlet.
Please connect and use the USB cable correctly to avoid the charging device from loosening. Do not bend, pull, heat, cut, or loosen the cables. It can cause fire or electric shock. When not in use, disconnect the charger's cable. There may be a risk of electric shock when used while charging. When removing the adapter, hold the adapter and remove it. If you remove the adapter by pulling the cable, a disconnection can cause charging failure.

5. Avoid high temperature and humid environments.
Do not use the product in a hot and humid place. If the product gets wet, turn it off and dry it thoroughly before using. Do not place it on duvets, carpets, household electric appliances, or in direct sunlight (such as car seats) for extended periods. The exterior may become deformed, broken, or explode. If the temperature of the product sharply rises, stop using the product and contact the service center.
*Operating Temperature: 0℃ ~ +50℃ , Storage Temperature: -20℃ ~ +70℃

6. Do not use any chemicals.
Never use chemicals such as alcohol or benzene to clean the product. This may start a fire. If any foreign objects get on the product or charger, wipe it with a soft cloth.

7. Avoid magnetism.
Do not keep the charging terminals close to any metal such as necklaces, keys, coins, nails, watches, etc. If a metal object is short circuited with the charging terminal, there is a risk of explosion.

8. Use special caution for children and pets
Store products, chargers, parts, etc. out of reach of children or pets. If it gets in your mouth or is striked, you may be at risk of electric shock or exposure to electromagnetic waves. Be careful not to allow children or pets to swallow products, chargers, parts, etc. There is a risk of suffocation, explosion, and fire.

9.Do not use in an explosive atmosphere.
Do not use the product in explosive areas. This may affect high-frequency devices. Do not place the product on an unstable surface, such as on a shaky or sloping area. The device’s fall may cause injury.

10. Be cautious of explosion.
Do not cover or wrap with fabric materials such as a blanket, during use or when charging. Do not dispose with general waste. It can cause fires, explosions, and environmental pollution.

11. Avoid excessive contact under heated condition.
Avoid using the product when the temperature on the surface of the product rises above the appropriate level. If you come into contact with the product in this state for a long time, there is a risk of burns or disturbing skin pigmentation. If the external protective cover comes off or you experience an allergic reaction to the material of the product, stop using the product immediately and consult a physician.

12. Keep the Dot pad in a safe place for storage.
When not in use for a long-time, disconnect the charger from the dot pad and store them in a safe place. When storing the power adapter on the dot pad, be careful not to severely fold or twist the USB cable. If the USB cable is stored or used with an excessive fold or twist, the USB cable can be stripped off or disconnected and cause a failure or accident.

13. Be careful in handling the battery.
In hot and humid places, the battery may not charge well or may drain quickly. Do not expose to direct sunlight or use in a humid place, such as a bathroom.

- If you want to use it again after a long period of not using the device, please use it after fully charging.
- Please note that it may explode if the battery is forcibly removed.
- Do not change, modify, or expose the product to liquids. Once the device is fully charged, disconnect the charger from the outlet to avoid unnecessary power consumption.
- Please bring your product and charger with you when you visit the service center due to battery problems.

- If the product gets heated while charging, please wear gloves or use a device other than your body to separate the charger and dot pad.
- Overheating may cause damage to the product. Please unplug the USB cable and contact the Dot Official Service Center.

14. Do not give any shock or impact.
If you apply strong force to the product, place heavy objects on top, etc., it may cause an impact to the product. When not in use, store it in a safe place to avoid shock.

15. Do not use chargers that has not been approved.
Avoid using unapproved charger as it may lead to damage of the battery causing injury.

8. Customer Support

8.1 Dot Email
Purchase Inquiries: inquiry@dotincorp.com
Customer Service: TBD

8.2 Dot Phone Number
CS Phone: +82) 2-864-1113

8.3 Dot Homepage
https://www.dotincorp.com/

9. Product Certifications

South Korea: KC (Certification Number: R-R-D0T-DPA320A)
United States: FCC (FCC ID: XXXXXXXXXXXXXXX)
Europe: CE
International Standard: SIG Bluetooth

[KC]

※ 해당 무선설비는 운용 중 전파 혼신 가능성이 있음

※ 제작자 및 설치자는 해당 무선설비가 전파 혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없음

[FCC]

FCC class B

a. Rule Part 15.19(a)(3): 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.

b. Rule Part 15.21: The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that 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

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

Caution

The manufacturer is not responsible for any radio or TV interference caused by unauthorized changes or modifications to this equipment. Such changes or modifications could void the user authority to operate the equipment.
This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.


[CE]

"CE" mark indicates that this product complies with the European requirements for safety, health, environment, and customer protection. "CE" mark devices are intended for sales in Europe.

This symbol [crossed-out wheeled bin WEEE Annex IV] indicates separate collection of waste electrical and electronic equipment in the EU countries. Please do not throw the equipment into the domestic refuse. Please use the return and collection systems available in your country for the disposal of this product.

Disclaimer

No warranty or representation, either expressed or implied, is made with respect to the contents of this documentation, its quality, performance, merchantability, or fitness for a particular purpose. Information presented in this documentation has been carefully checked for reliability; however, no responsibility is assumed for inaccuracies. The information contained in this documentation is subject to change without notice.
In no event will DOT INC. be liable for direct indirect, special, incidental, or consequential damages arising out of the use or inability to use this product or documentation, even if advised of the possibility of such damages.

[FCC and CE compliance Statement]

These limits are designed to provide reasonable protection against frequency interference in residential installation. This equipment generates uses and can radiate radio frequency energy, and if not installed or used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in television reception, which can be determined by turning the equipment off and on.

The user is encouraged to try and correct interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected to.

[Bluetooth®]

[About Bluetooth®]
Bluetooth® is a wireless communication technology for short-range connections. The possible range is within 10 meters. (Interrupted by other radio waves or Bluetooth ® on other devices may cause the connection to be lost.
There is no charge for connecting each device to Bluetooth® wireless technology. You can transfer and receive data from your Bluetooth® phone or Bluetooth® device over a wireless connection.
The Bluetooth® mark and logo are owned by Bluetooth® SIG and the other trademarks and trade names are their respective owners.

[Bluetooth® Profile]
To use Bluetooth® wireless technology, the device must support a specific profile. The device is compatible with the profiles below.
A2DP (Advanced Audio Distribution Profile)
AVRCP (Audio/Video Remote Control Profile)
HSP (Headset Profile)

- There is no more information beyond this page -