Reinventing Accessibility,

Dot by Dot



· dot:

Reinventing Accessibility,

Dot by Dot

Since 2015, Dot has reinvented accessibility for the visually impaired with Braille assistive technology.

From 2020 and beyond, Dot aims to expand this mission to include the transportation vulnerable and the mass public by leveraging our award-winning inventions and patented technologies.

dot:



2015~



Braille Devices

Dot Assistive Technology

For the Visually Impaired









Reinventing Dot Braille Actuator

Dot Haptic

For all the People

2021~











19~







Barrier-Free Smart City

Dot Accessible Infrastructure

For the Transportation Vulnerable















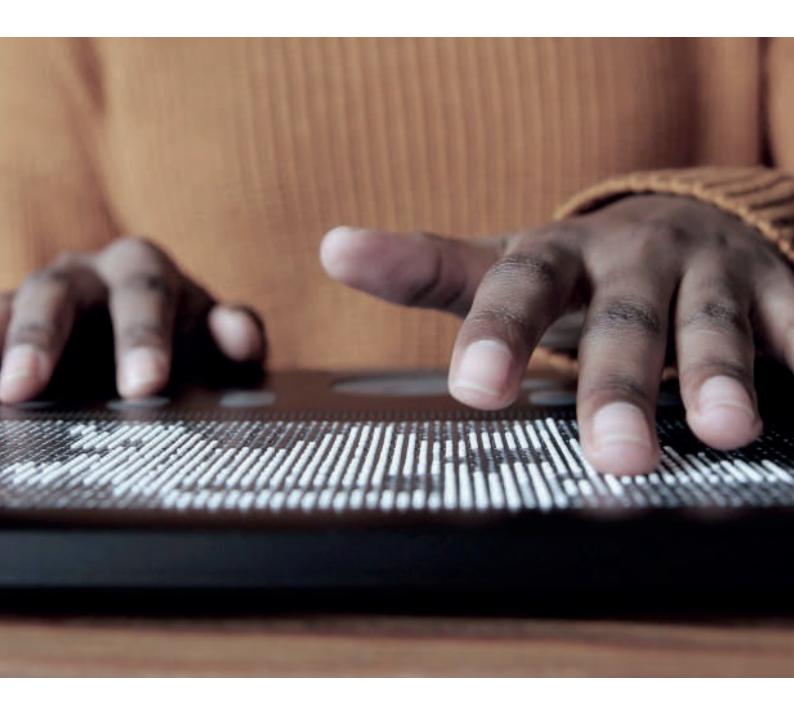






> Technology

Dot Assistive Technology



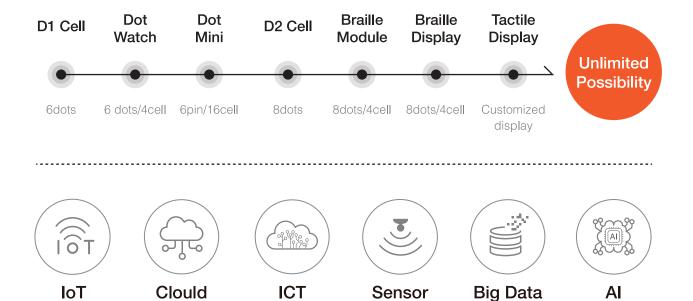
Dot has constantly challenged ourselves to create the most affordable and innovative solutions for the disabled. In this pursuit, Dot has created a variety of interactive devices so that information can be more easily accessible for the blind and visually impaired.

We won't stop innovating until the visually impaired and the deaf-blind are able to feel included and connected with our world.

We dream of a more disability-friendly world with facilities that are easy to access.

Braille Technology Electromagnetic Actuator

We have focused on improving the life styles of the disabled by creating interactive and intimate digital devices, powered by Dot's Braille actuator.





Braille Cell and its Devices

Dot has registered around 114 patents globally.

Compared to existing technologies, the Dot Cell is much smaller and more cost-effective.

































2017

Dot Cell(D1)

(6pin cell)

2018

Dot Watch (Braille Smartwatch) 2019

Dot Cell(D2) (8pin cell) 2020

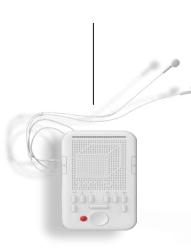
Dot pad (Tactile display) 2021

Dot Kiosk - Dot Public (Barrier-free kiosk)











Dot Haptic

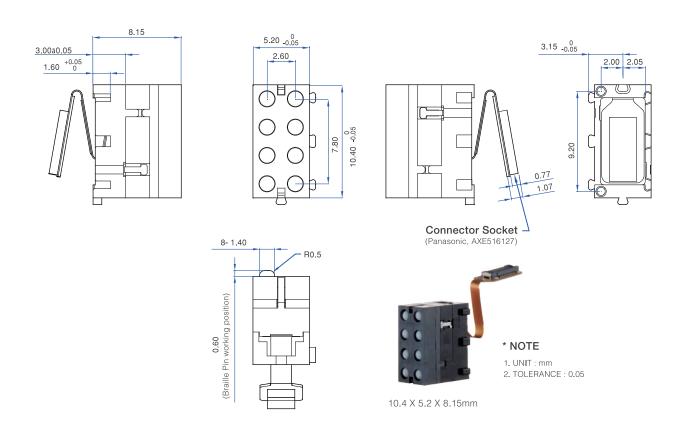
Reinventing tactile technology

Dot aim to show a whole new level of tactile communication with groundbreaking technology and accumulated experience.



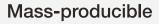


D2 Braille Cell



Expandability







Scalable



More Affordable



Smallest



Lightest



More Versatile

Braille SmartWatch



- (Battery Life (Battery life varies depending on use and other factors)
 - Managing Calls
 Know who is calling
- Super light aluminum (Body: 27g / Band: 29g)

Key Features

Braille Smartwatch aims to help the visually impaired feel more connected. Dot watch also gives direct access to daily practical features such as date and time, alarm clock, stopwatch, and timer. It vibrates and displays who's calling or texting, as well as shows app notification. Also, any message is instantly transmitted and converted to Braille notation, and the messages can be read using the intuitive touch control.

Specifications

PLATFORM	Wireless MCU platform
BLUETOOTH	Bluetooth LE (Low Energy) 4.2
CPU	32 bit ARM Cortex M4F
BRAILLE DISPLAY	4 Braille Cells (6 Dots)
BUTTON	2 x Buttons (Select & Home), 1 x Encoder Switch (Crown)
BATTERY	Non-removable Li-Polymer 380mAh
DIMENSION	Body 43.0 (Diameter) x 12.5 (Thickness) (mm) Band 22.0 x 210 (Small) / 250 (Large) (mm) Cradle of Charger 45.0 x 7.0 (mm)
WEIGHT	Body – 27g / Band – 29g
MATERIAL	Body (Aluminum Steel) / Band (Magnetic Mesh) / Cradle of Charger (Plastic)
COLOR	Front (Off-White) / Body (Silver) / Cradle of Charger (Gray)

> Braille Smartwatch • dot :

Dot Watch

The first Braille smartwatch





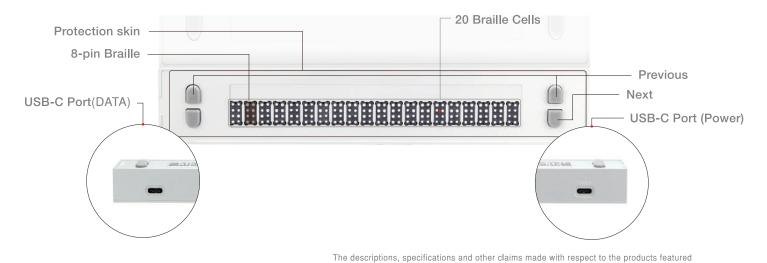




dot:

Dot Module 20

We can make any types of interactive accessible kiosks using the module for Braille users.



Specifications

in this catalogue are subject to change without notice because of our continuous product development.

* More specific information can be provided on Website and through email inquiry.

Model Name	KM2-20 A / B
Product Description	8-pin 20 Braille cells
Dimension	131.95 (133.32) x 19.5 x 14.45 (W x D x H, mm)
Humidity	Operating Humidity 10% to 95% Non-Condensing
Supported OS	WIN10, Linux (Optional), Android (Need to discuss)

Customization Customizable according to the customer's needs.



Automatic Certificate Issuance Machine



Bank ATM



Ordering Kiosk



Ticket Kiosk



Digital Signage

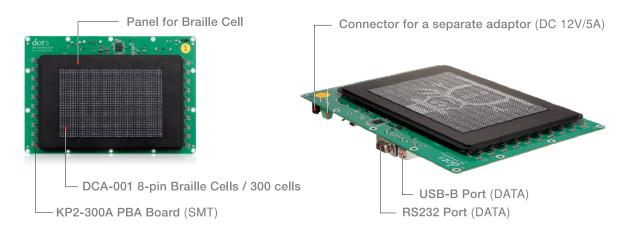


Information Kiosk

dot ∷

Dot Module 300

Access any lengthy information such as e-mails and e-books, formulaic calculations, graphical representations, and data input.



The descriptions, specifications and other claims made with respect to the products featured in this catalogue are subject to change without notice because of our continuous product development.

More specific information can be provided on Website and through email inquiry.

Specifications

Model Name

KP2-300A

Dimension 262 x 180 x 9.7 (23.7) (W x D x H, mm)

Humidity Operating Humidity 10% to 95% Non-Condensing

Supported OS WIN10, Linux (Optional), Android (TBD)

Customization Customizable according to the customer's needs



Tactile Map and Information Kiosk



Kiosk for Exhibition Items



Desk for Study and Work



Application on Gaming Device



Digital Signage



Any Devices Needing Tactile Function



Tactile Display

-Application Examples-

Dot aims to have the strongest tactile technology by entering the haptic market. We are advancing the business with a concrete R&D roadmap on a phased basis.

Tactile Map







8

Image







Mathematical Graph



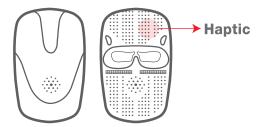




Market Expansion using Braille and Haptic Technology

With Dot's core patent for its Braille Actuator, business expansion from the assistive devices to $VR \cdot AR \cdot$ Haptic devices is possible.

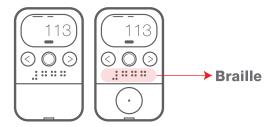
Beauty Industry



Face Massage Device

It can be used for beauty industry items such as a beauty mask that uses tactile cells to stimulate facial muscles.

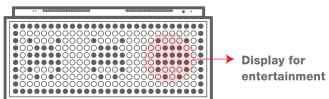
Healthcare Industry



Blood Glucose meter

It can be used for personal medical measurement equipment such as a blood glucose meter and blood pressure monitor by integrating braille cells.

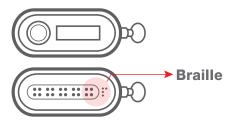
Media Industry



Physical Display

It can be used as a physical display using tactile cells for the outdoor advertising showing stereoscopic visual effects.

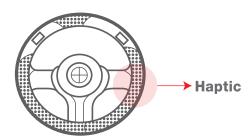
Finance Industry



Braille OTP

It can be used for finance related products such as OTP that displays one time password through Braille cells.

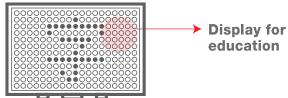
Automotive Industry



Tactile Function for Steering Wheel

It can be used to give car drivers a warning about drowsiness and lane departure through tactile cells integrated to the vehicle steering wheel.

Education Industry



Graphic Display

It can be used as an educational aid to help the visually impaired understand letters, images and mathematical graphs.

> Dot Infra

Dot Infra

-Barrier-free Smart City-



Touch the Connected World, Dot by Dot

The world has been undergoing rapid digital transformation through IoT, 5G, Big data, and AI technologies. However, ironically, such technological advances do not guarantee equal opportunities for all people. Rather, it is depriving people of the chance to access places and information. Dot's mission is to empower accessibility in this 4th industrial revolution and reinvent the tools for everyone who lives in cities.

In order to achieve this, Dot will be able to apply Braille (tactile) modules to various types of accessible facilities each and every smart city's needs. Also, collaborating with other assistive technologies, we can provide a total solution for physically challenged people all over the world. Ultimately, we aim to provide barrier-free facilities that enable people with disabilities to access all the information.

R&D Services

Dot has a specialized Research & Development team dedicated to the barrier-free smart city project.

We provide in-depth consulting and customized R&D results for digital infrastructure and contactless solution.

R&D Services that Dot Provides

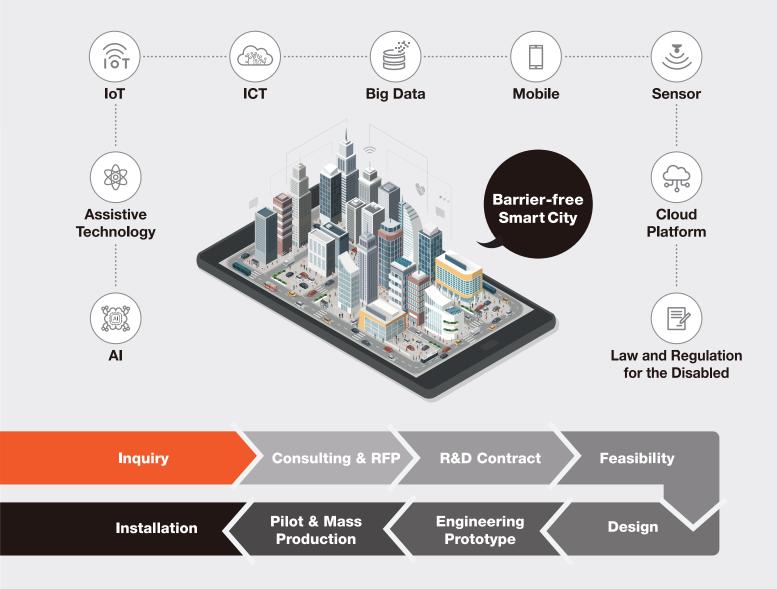








Hyper-connector for Barrier-free



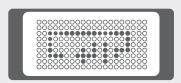
Accessible Kiosk for Wayfinding

Provides directions that anyone can easily understand

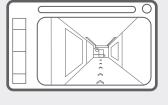




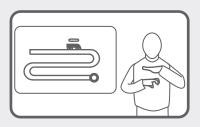
* The height of the kiosk can be adjusted automatically by positioning display at eye level.



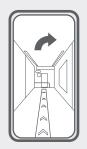
Digital tactile display



3D Navigation map



Sign language video



Both Braille and voice are supported, and you can interact with the kiosk through smartphone app (iOS and Andorid) to get real-time directions.

Indoor navigation

Accessible Kiosk for Self-Order

Non-face-to-face self-order service that anyone can use





Dot Module 20

It helps to deliver necessary information by letting the visually impaired use finger touch to recognize words on the self-service machine. It will be available to change the way the visually impaired interact with any kind of kiosks.

Other components

- 1. Keypad
- 2. Speaker (Earphone jack)
- 3. Audio Guiding Device

People with disabilities and the elderly can use the device with simple button operation without using the touch screen. All buttons have Braille notation and screen reading function (voice support) to help convey information.

Accessible environment interlocking with Smart City Infrastructure



Securing location accuracy

and visibility through 3D

modeling technology.

01 Accessible Bus Stop

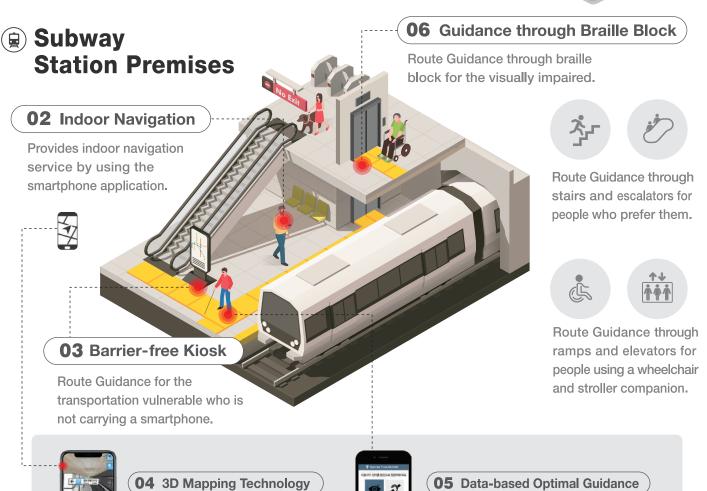
Optimal route guidance according to

facility status and their characteristics

of each transportation vulnerable.

The barrier-free smart bus stop which can provide real-time public transporation information with Braille, sign language, voice, and even the signage display.

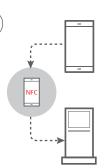




Tourist Attraction

07 Accessible Tourism Kiosk

The barrier-free tourism kiosk which can provide directions and tourist information to all people including the disabled, transportation vulnerable, and non-disabled as well.



- 1. App Download
- 2. Interlocking with the information searched
- 3. Continuous Tour Guidance



Braille / Sign Language / Voice / Automatic Height









Route Guidance through Braill Block for the Visually Impaired (Providing Real-time information)



08 Tourist Information

Providing detail information about the tourist attraction they visit.



"At the four crossroads of the principle, alleys stand four fountains, built in the 1670...."



09 Outdoor Navigation

[Measurement]

GPS & Position



Wearable Device for the visually impaired



Visually **Impaired** Tactual Map & Voice



Non-Visually **Impaired** Smartphone Display &

Providing outdoor navigation service by using the smartphone GPS and position sensor.

10 O2O Matching based on APP





AD/Coupon Issued Order Accepted Menu prepared

 Location Based **O2O** Application

AD/Coupon Received Order&Payment Arrival&Pick-up

Along with the app, potential customers can receive useful information based on their real-time location.



dot:

www.dotincorp.com
Inquiry: buy@dotincorp.com