



# All-in-One Smart Lock Solution

Safe living, sustainable innovation

Smart safety control solutions based on OTP+PKI converged security authentication technology



## A Safe and Convenient world opened with One hand

Hanzoom Co., Ltd. is pursuing a business that connects remote control of various IOT devices through a [mobile app \(HANKEY\)](#) with [bidirectional OTP security authentication](#). By leveraging multiple original patented technologies, we provide differentiated services that can compete with world-class global companies in technology, quality, and price, securing business stability as a technology company.



**Smart Door Lock**

Remote control via the mobile app with OTP security authentication IOT door lock



**HANKEY**

Security application to control various IOT devices with one touch



**Smart Locker Lock**

Remote control via the mobile app with OTP security authentication IOT locking device

## Main Product Solutions



**Convergence IOT device safety control solution**

This solution applies [bidirectional OTP security authentication](#) technology to implement hacking-proof security and integrates with a mobile app with a hardware-friendly interface to control various IOT devices. It can be managed comprehensively for users, etc.



**PC security certification solution**

PC security certification will be the 2026 [security trend passwordless authentication](#) solution, thoroughly authenticating the user's identity and granting access rights to minimize security damages. It is an efficient solution for smart work environments.

## A System That Authenticates Rather Than Inputs Entry

### HANZOOM PRODUCT

A security system that verifies identity through **bidirectional OTP secure authentication** procedures

Operable without separate communications infrastructure

Integrated with a single authentication platform

### OTHER PRODUCT

Password / RFID / BLE-based access as a "means to open"

Gateway, need for separate server & network construction

Device-specific solutions

Authentication Method

Infrastructure Dependency

Device-centered vs Platform-centered

## | Bidirectional Secure Authentication

Change the Standard of Entry with **Authentication**, Not Physical locks



### Zero-Trust Environment with No Password Exposure Risk

Traditional door locks or locking devices that require fixed passwords are inherently vulnerable to physical exposure or hacking. Hanzoom's Technology uses a **one-time password for every access attempt**. Because it is generated and authenticated bidirectionally, exposure and leakage are fundamentally blocked.

### A Different Dimension of Security: 'Bidirectional Secure Authentication' System

**bidirectional OTP secure authentication technology** analyzes and authenticates the OTP pattern between the IOT device, smartphone app, and authentication server for every connection, thus **without password exposure/leakage**. A technology that securely protects IOT devices.

### Dynamic Security Algorithm with Impossibility of Data Tampering

Even if communication data is intercepted (sniffing), **replication is impossible** thanks to an OTP pattern that changes with each use: only after this thorough verification process can the lock be controlled, ensuring **greater safety** when operating numerous IOT devices than any other solution.

# Tap-and-Go App



**With one touch,**  
Completing security for every space

The HANKEY app transforms a smartphone into a single digital key, providing a compact core mobile platform to centrally control a variety of IOT locks. Users can intuitively control door locks, mailboxes, storage boxes, and other devices via the app without physical keys or cards, while granting and revoking (temporary access) permissions and managing IOT device usage history in an integrated way for efficient operation.

We have applied bidirectional OTP security authentication between IOT devices, the smartphone app, and the authentication server to maximize security and the ease of use that can be controlled with one touch.



**IOT DeviceList**

Registered as users my IOT device list to displays.



**Remote Control**

Within 10m remotely control IOT device list to controls.



**Onetouch Control**

remote control to add to the home screen to performs remote control



**Usage History**

IOT device's usage records shows.



**User Management**

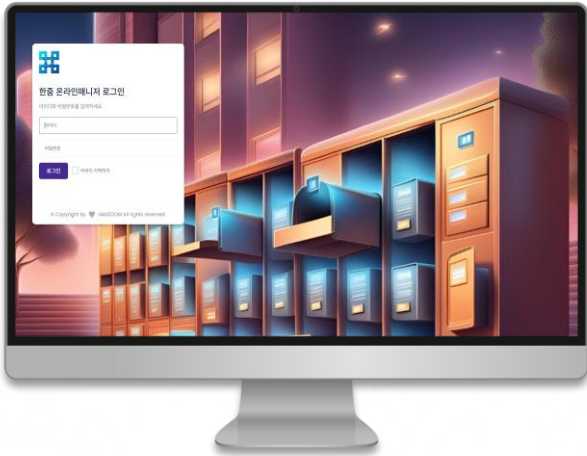
IOT device's adding and removing users, etc. Manages.



## Smart Control Center

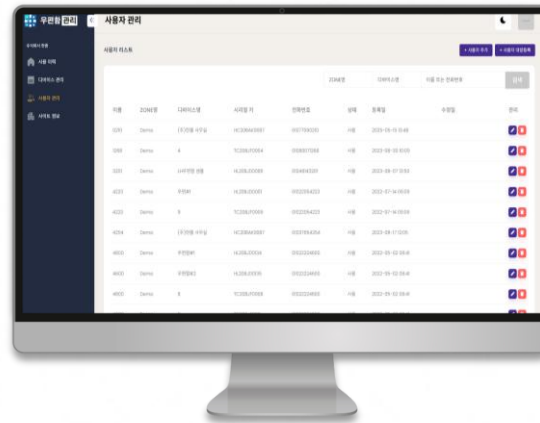
Windows

Mac OS



**With a one check,**  
Verify security across all spaces

The Smart Control Center is not just a simple lookup program; it is an operating platform that centrally manages user management, registered device lists, and usage history data, shared with the smartphone app platform so you can verify it and manage IOT devices within the PC as well. User information and devices previously managed individually can be standardized into data and managed in bulk, and the usage history feature that shows when and which IOT was used helps prevent security incidents and clarify responsibility. By adopting a mobile app + pc online manager hybrid management platform, you can enjoy both the mobility of smartphones and the visual convenience of PCs.



### Key features



OEM Customization



Registered User Overview



Bulk User Registration



Operation History Tracking



IOT Device Monitoring



Intergrated User Management

# HANZOOM

A safe and convenient world opened with one hand



## Hanzoom Core Technologies

Hanzoom focuses on the most vulnerable security issues in the IOT environment and applies network connected **bidirectional OTP security authentication** technology. One-time authentication information is protected from replication and hacking threats. It presents a simple yet the safest technical solution.

## Differentiated Integrated Management

You can control a variety of everyday products such as door locks, mailboxes, lockers, and cabinets from a single platform.

Administrators manage all infrastructure with a single app, including user management and usage history data. This differentiated integrated approach dramatically reduces operating costs and guarantees optimal management efficiency.

## User-centered Value

The value of technology is determined by how much more comfortable users' lives become. Hanzoom prioritizes the user's intuitive experience. The **contactless smart app service** provides an UI/UX that can be grasped at a glance. Administrators manage all infrastructure with a single app, including user management and usage history data. This differentiated integrated approach dramatically reduces operating costs and guarantees optimal management efficiency. The true value Hanzoom pursues is to eliminate the word inconvenience from users' daily lives.

## Sustainable Innovation

Hanzoom's innovation does not stop at simple product sales; it forms a virtuous cycle by analyzing generated data to improve service quality.

Even in a rapidly changing ICT card key environment, flexible responses are possible. By analyzing user patterns, unnecessary operating resources are eliminated, and the cost savings are reinvested into technology development to achieve continuous self-innovation.

## Legends



Smartphone app control



Password input



Card key



Fingerprint recognition



Kiosk



Manual key

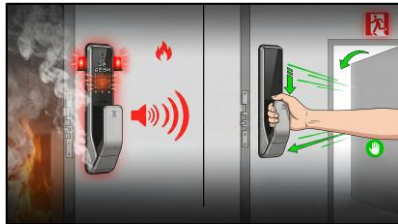
# Smart Door Lock EPISLOCK

- IoT
- Bluetooth
- 4G/5G
- Wi-Fi



Reduce hacking risk by combining **security software**, control becomes **more convenient!**

This is an integrated product applying hi 1 plus's strong durability and hardware design capabilities and A unique **bidirectional OTP security authentication** technology. It is a next-generation smart door lock solution That ensures physical security + digital security at the same time. It provides users with safety without passwords and administrators with usage data for efficient operation. making it more than just a simple lock the starting point for the safest and most convenient smart city · smart home.



### Fire alarm and one-touch panic function

Escape is possible without needing to disable alarms and locks during a fire event



### 30-second halt and alarm function during abnormal operation

If the password is entered incorrectly 3 times, operation stops for 30 seconds and an alarm sounds



### Safe hardware structure

Safe hardware structure with anti-condensation, fire-resistant specialty & Anti-shock system for a safer design



### Fictitious number touch feature

Enter fictitious password by touch securely without exposing to others

# Smart Door Lock

## Main Key Door Lock



**H-4800**

**Dimensions** 82(W) x 244(H) x 64(D) (mm)

**Material** Flame-retardant ABS, aluminium die-casting

**Control** 4-WAY open method



## Glass Door Lock



**M-1300V**

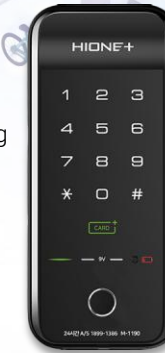
**Dimensions** 73.5(W) x 171(H) x 39(D) (mm)

**Material** Flame-retardant ABS, aluminium die-casting

**Control** 3-WAY open method



## Auxiliary Key Door Lock



**M-1100**

**Dimensions** 71(W) x 162(H) x 17(D) (mm)

**Material** Flame-retardant ABS

**Control** 3-WAY open method



**H-5700**

**Dimensions** 82(W) x 320(H) x 73(D) (mm)

**Material** Flame-retardant ABS, aluminium die-casting

**Control** 3-WAY open method



### Door lock common specifications

- Operating temperature** -15~55°C
- Waterproof rating** IPX4 (water resistance for everyday use)
- Battery life** (AA batteries) 6 months to over 1 year

# Smart Door Lock

## Push-pull Door Lock



**H-7000**

**Dimensions** 85(W) x 367(H) x 73(D) (mm)

**Material** Flame-retardant ABS, aluminium die-casting

**Control** 4-WAY open method

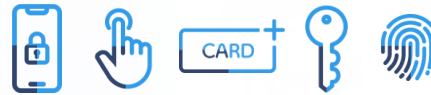


**H-7892**

**Dimensions** 85.4(W) x 395(H) x 63(D) (mm)

**Material** Flame-retardant ABS, aluminium die-casting

**Control** 5-WAY open method



## Auto Lock



**HP-920**

**Dimensions** 85.4(W) x 384.4(H) x 60.6(D) (mm)

**Material** Flame-retardant ABS, aluminium die-casting

**Control** 4-WAY open method



**H-7700**

**Dimensions** 85(W) x 327(H) x 70(D) (mm)

**Material** Flame-retardant ABS, aluminium die-casting

**Control** 3-WAY open method



## BLE Module



**A2Link-100**

**Dimensions** 37(W) x 20(H) x 11(D) (mm)

**Communication** 2.4GHz Wireless Communication

**Rated Voltage** DC 5V

**Wireless Communication Standard** Bluetooth 4.0 or higher

# Smart Locker Lock EPISLOCK

- IoT
- Bluetooth
- 4G/5G
- Wi-Fi

Smart control base, **convenient** yet **strong security**



## Close-range communication (Bluetooth) Electronic opening/closing

Through **bluetooth** communication between smartphone and locker lock, easy opening/closing without a separate physical key, providing both security and convenience through user authentication-based control.



## Smartphone standalone control (option: kiosk)

High security and integrated management through **standalone control via mobile app** without a separate control device when needed, can be linked with a kiosk to efficiently control multiple user environments.



## Sleep mode, wake-up function energy-saving locking method

When not in use, switches to sleep mode to **minimize unnecessary power consumption**, and immediately wakes up upon input of a usage signal to maintain fast responsiveness, an **energy-efficient** locking device.



## Maintains locked state in emergencies such as power outages or device malfunctions

Applied a **fail-safe structure** that maintains lock state even in emergencies such as power outages, communication failures, or device errors. Continuously ensures the safety of stored items.

### Applied Hardware



# Smart Door Lock

## Public Housing Type



### HZ10L30SA-APB

**Dimensions** 290(W) x 230(H) x 390(D) (mm)

**Material** Steel

**Control** 2-WAY open method



## Multi Housing Type



### HZ10L30SA-MPB

**Dimensions** 290(W) x 230(H) x 390(D) (mm)

**Material** Steel

**Control** Smartphone-only control



## Smart Locker Lock



### HL30S

**Dimensions** 66(W) x 122(H) x 27.7T(D) (mm)

**Material** ABS

**Control** Smartphone-only control



## Registered Mail Type



### HZ10L30SA-RPB

**Dimensions** 840(W) x 490(H) x 390(D) (mm)

**Material** Steel

**Control** Smartphone-only control



## Single Housing Type



### HZ10L30SB-DPB

**Dimensions** 290(W) x 230(H) x 390(D) (mm)

**Material** Steel

**Control** Smartphone-only control



## Smart Cabinet

### 2-Drawer Cabinet



**30SACW-2A**

**Dimensions** 800(W) x 805(H) x 410(D) (mm)

**Material** Wood

**Control** Smartphone-only control



### 3-Drawer Cabinet



**30SACW-3A**

**Dimensions** 800(W) x 1170(H) x 410(D) (mm)

**Material** Wood

**Control** Smartphone-only control



### Smart Locker Lock



**HL30S**

**Dimensions** 66(W) x 122(H) x 27.7T(D) (mm)

**Material** ABS

**Control** Smartphone-only control



### 4-Drawer Cabinet



**30SACW-4A**

**Dimensions** 800(W) x 1540(H) x 410(D) (mm)

**Material** Wood

**Control** Smartphone-only control



### 5-Drawer Cabinet



**30SACW-5A**

**Dimensions** 800(W) x 1905(H) x 410(D) (mm)

**Material** Wood

**Control** Smartphone-only control



# Smart Locker

## 1-Drawer Locker



### 30SALW-A4501

**Dimensions** 400(W) x 450(H) x 450(D) (mm)

**Material** Particleboard, MDF

**Control** Smartphone-only control



### 30SALW-A6001

**Dimensions** 400(W) x 600(H) x 450(D) (mm)

**Material** Particleboard, MDF

**Control** Smartphone-only control



## Smart Locker Lock



### HL30S

**Dimensions** 66(W) x 122(H) x 27.7T(D) (mm)

**Material** ABS

**Control** Smartphone-only control



### 30SALW-A9001

**Dimensions** 400(W) x 900(H) x 450(D) (mm)

**Material** Particleboard, MDF

**Control** Smartphone-only control



### 30SALW-A1800

**Dimensions** 400(W) x 1800(H) x 450(D) (mm)

**Material** Particleboard, MDF

**Control** Smartphone-only control

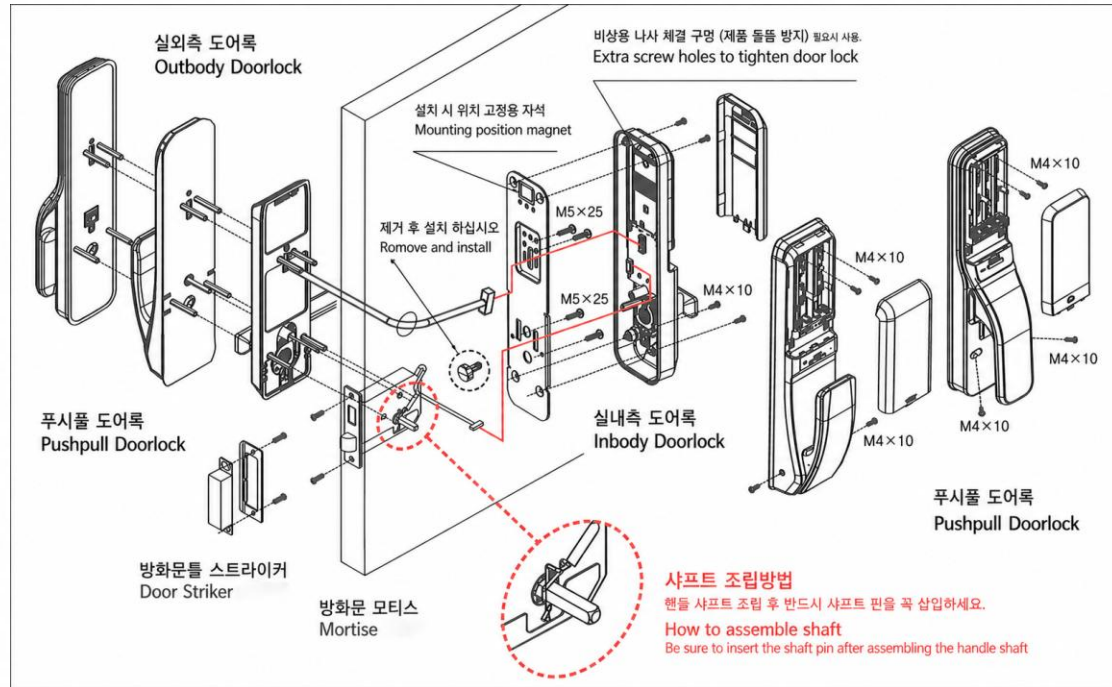


# Installation & Compatibility

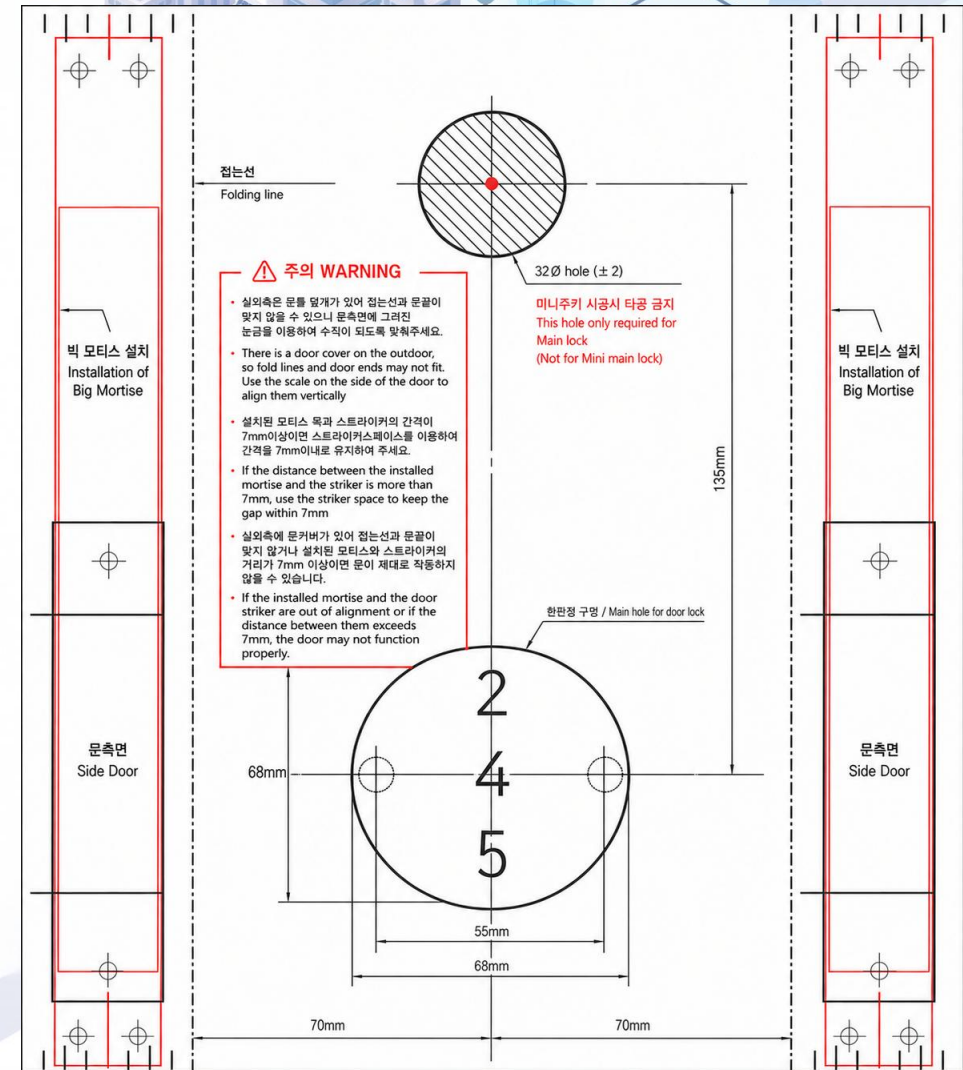
## Smart Door Lock

※ Door lock installation condition: fire-proof door thickness 40mm ~60mm

### Installation Layout (left or right door of fire-proof door)



### Drilling Diagram (left or right door of fire-proof door)



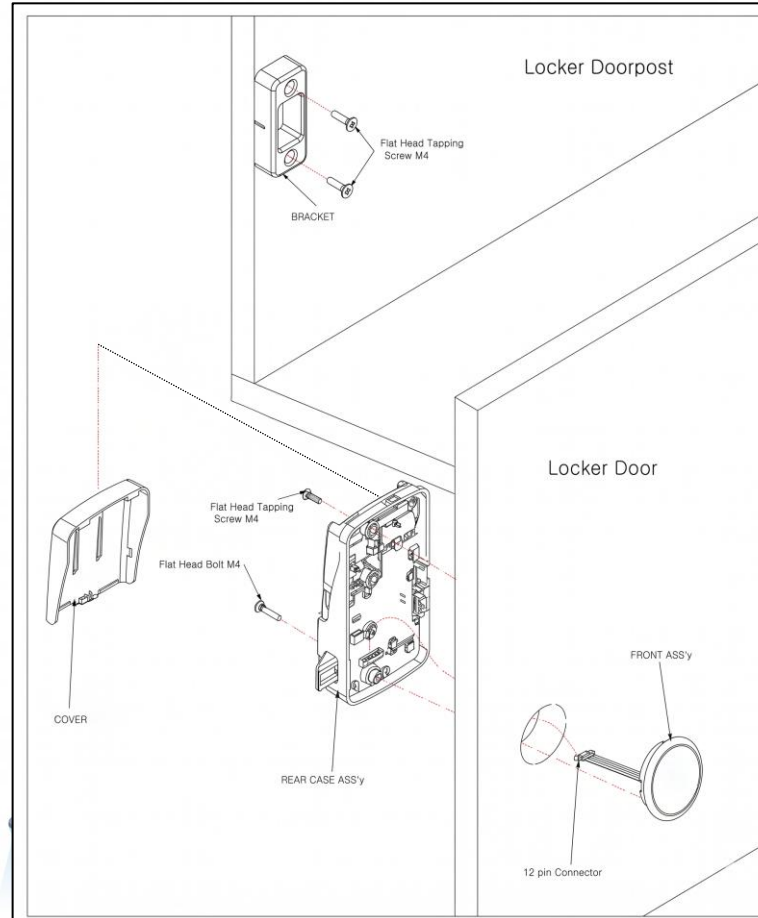
## Installation & Compatibility

### Smart Locker Lock

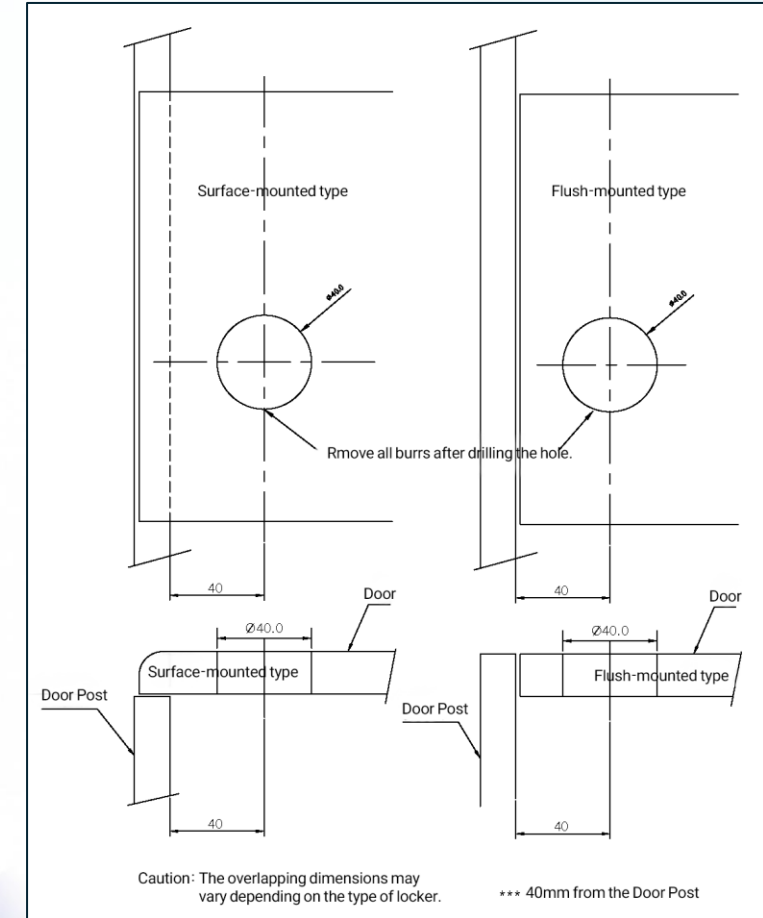
※ Locker Lock installation condition:

Door thickness 16mm ~ 30mm

Installation Layout (right door)



Drilling Diagram (right door)



# Certification & Intellectual Property

## Patents



**No.10-1964757**  
Authentication system and method using OTP



**No.10-2381665**  
Smart School Security System and Method



**No.10-2377196**  
Smart Security System and Method Based on Bidirectional OTP Authentication



**No.10-2344137**  
Facility User Authentication System and Its Control Method



**No.10-2109666**  
Mail and Parcel Service Method and System



**No.10-2109669**  
Courier Service Method and System



**No.10-2027326**  
Smart Terminal Device Security System and Method



**No.10-1976644**  
Locker Security System Using Authentication Key and Its Operation Method



**No.10-2027324**  
Automated Vending System and Method Using Hash Code



**No.10-2087660**  
Automated Vending System and Method Using OTP



**No.10-1814602**  
Remote Control Device and Electronic Devices Remote-Controlled by the Remote Control Device



**No.10-1286922**  
Service access method using simple authentication, user authentication device and terminal



**No.10-1442169**  
Public-key-based Bluetooth smart key system and operation method



**No.10-1379150**  
Method for Selecting and Accessing Zigbee Networks and Associated Devices



**No.10-1368122**  
Method to connect by selecting a Zigbee network and devices for it



**No.10-0748034**  
Bluetooth control device and method for portable terminal



**No.10-0793301**  
Package storage and receipt system and method using RFID



**No.10-0817594**  
Method and devices for automatic connection between Bluetooth devices



**No.10-1148245**  
Program of Bluetooth device Method for automatic updates



**No.10-1151850**  
Automatic Bluetooth connection method of portable terminal



**No.10-0620917**  
Door lock system and operation method using a portable terminal



**No.10-0716175**  
Bluetooth device registration system and method

# Certification & Intellectual Property



## KC Certification



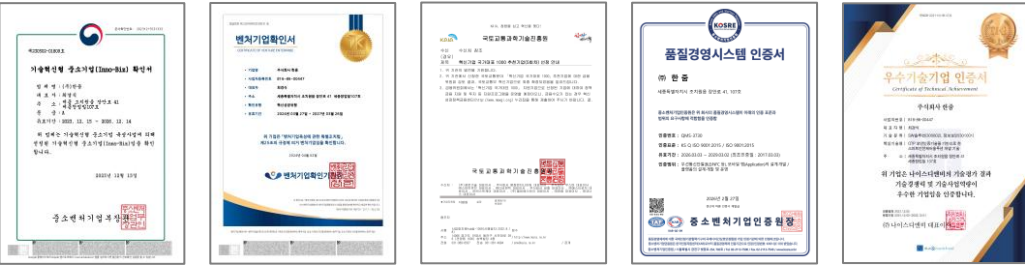
**R-C-HZM-HL20SA** For Wireless Data Communication System Wireless Device  
**R-C-HZM-HL20SB** For Wireless Data Communication System Wireless Device  
**R-R-HZM-HL30S** A2Lock  
**R-R-HZM-HZKiosk Post100** Smart Mailbox

## GS Certification



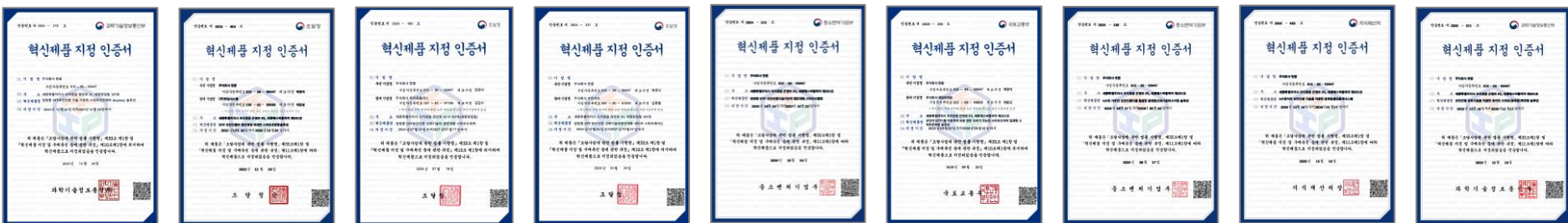
**No.23-0530** Smart Door Lock v1.0  
**No.21-0140** Smart Mailbox v1.0

## Company Certification



**Small and Medium Enterprise Certificate** Technology Innovation Small and Medium Enterprise Grade A (Inno-Biz) Certificate  
**Venture Company Certificate** Venture Company Certificate (Innovation Growth Type)  
**National Representative 1000** MOLIT Innovative National Representative 1000 Recommended Company  
**Quality Management System** Quality Management System ISO9001 Certificate  
**Excellent Technology Company** TI-Grade 2 Certificate(NICE DNB)

## Innovative Product Designation Certification



**No.2024-276** Two-way OTP security certification technology-based smart safety control solution  
**No.2022-464** App-connected non-face-to-face OTP security certification Smart mailbox solution  
**No.2024-186** App-connected smart door lock with enhanced two-way OTP security certification technology  
**No.2024-231** App-connected enhanced two-way OTP security certification technology Safe Smart Cabinet  
**No.2024-212** App-connected based on two-way OTP security certification technology Smart Locker  
**No.2025-236** Using a security key (OTP) capable of granting access rights Smart door lock integrated Smart Fire Door Solution  
**No.2025-180** Converged smart trash sorting bin using IoT and resident security authentication keys solution  
**No.2025-463** IoT devices and Converged access control system with security certification technology  
**No.2025-311** Safe Smart (converged) voting box with enhanced security certification Technology solution

## | Public Housing Complex



### ■ LH Korea Land & Housing Corporation

LH smart city applied smart mailbox/parcel locker integrated expansion project Hwaseong Taian 3 B-3BL district smart mailbox/parcel locker, Certification and operating server/platform total 900 units built



### ■ LH Wonju Main Office Public Housing Apartment

LH corporation / public procurement service pilot project certification and operating server, Operating platform 1 set construction smart mailbox/return box/expired battery box, LCD controllers total 824 units built



### ■ SH Seoul Housing & Urban Development Corporation

2025 first pilot purchase of innovative products Gongneung 1st complex apartment smart door locks 1,395 units built



### ■ LH Suncheon Yeonhyang Public Housing Apartment

LH corporation / Suncheon post office subject construction project certification and operating server, operating platform 1 set construction smart mailbox/return box/expired battery box, LCD controllers total 414 units built



LH and SH are Korea's leading government-backed public housing authorities, overseeing the nation's largest residential and urban development projects



## | Residential Area



### ■ K-water Public Corporation

Busan EDC smart village smart mailbox  
(Group chat housing type) construction



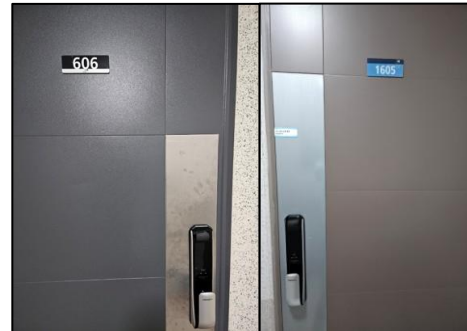
### ■ Incheon Technopark

Incheon Guwol-dong/Kanseok-dong Haedream 4th  
Large apartment smart automatic door 1 set  
Total 54 smart door locks/mailboxes/storage boxes installed



### ■ Gyeongsangnam-do, Sacheon-si

Youth/Young couple housing smart mailbox  
(multi-family housing type) construction



### ■ Ministry of Science and ICT

Jeonnam Naju city excellent information security product  
installation support project LH public/private apartments,  
general housing/one-room living environment improvement  
smart door locks 51 units installed





## | Government Institutions and Public Facilities



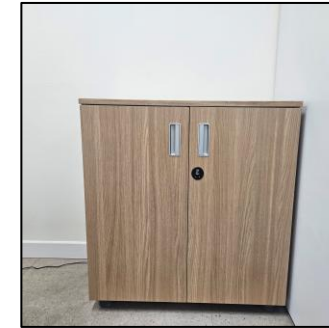
### ■ Sejong Facility Management Corporation

Sejong startup building / KIWOOM center 60 smart door locks installed within Sejong facility management corporation



### ■ Yeongcheong Facility Management Corporation

Facility management corporation innovation market purchase project: climbing tourist sites, camping sites, horse riding natural recreation forest, etc. smart door lock installation



### ■ Yongin Urban Corporation

Non-competitive bidding purchase: Installation of smart cabinets at Yongin urban corporation main office



### ■ Guro Facility Management Corporation

Facility management corporation innovation market purchase: smart door lock installation at the Guro district facility management corporation headquarters



### ■ National Institute of Chemical Safety

Facility management corporation innovation market purchase: 6 locations of chemical safety control rooms smart door lock installation



### ■ Yongin Urban Corporation

Non-competitive bidding purchase: Installation of smart lockers at Yongin urban corporation main office





# THANK YOU

## Contact us

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