



www.esmartlock.com

E-SMART LOCK

Wireless Online Smart
Locking Solution Provider





In 2003, Passtech who had had decades of expertise in RFID field developed reliable locking solutions affordable for consumers worldwide. Having registered its own R&D center and factory, Passtech steps on the path of a constant development and innovation. For many years Passtech team has been driven by a pioneering spirit, aiming to devise brand new solutions to boost and protect the business of our customers. This inspiration helped us to create and patent the world's first wireless online RFID locking solution in 2013, and smartphone based lock that operates on the principles of BLE, and RF card and smartphone full synchronization technology in 2017 along with many others inventions. Taking it a step further, Passtech releases wireless online metal locker locks which can be operated by various credentials including cloud mobile key from Esmart mobile cloud server which user can receive a code or mobile key by. We are proud of our company's capability and reliability of our products that have already been proven in in more than various countries all over the world, and we continue to deliver the best access technologies to the world!

History

- 2019** Release the 3rd generation of locker lock, wireless online metal locker lock and cloud mobile key solution
- 2018** Released the 2nd generation of new lock management software 'E-smart Plus+'
- 2017** Developed the world's first exclusive technology of synchronization between RF cards and smartphone
Released BLE mobile access locker lock
- 2015** Released the 2nd generation of intelligent RFID locker lock solution
Developed HID locker locks
- 2014** Advanced RFID locker locks and developed IoT security solution
- 2012** Developed the world's first wireless online RFID locker locks
- 2011** Developed RFID furniture locks
- 2010** Developed hotel RFID safes
- 2009** Developed the 1st generation of intelligent RFID locker lock solution
- 2008** Designated as export promising enterprise
- 2007** Founded R&D center and certificated as a venture and innovative business enterprise
Registered a factory
- 2006** Developed the world's first HF RFID locker locks
- 2005** Developed RFID modules
Certificated ISO 9001
- 2004** Developed access control system
- 2003** Established 'PASSTECH Co., Ltd.'



Why **PASSTECH**?

- 01
 - RFID technology R&D capability
 - Rich and long experienced engineers
 - Real-time customizing
- 02
 - Own R&D (S/W, H/W)
 - Own factory and quality assurance
 - On-time delivery
- 03
 - Proven quality in global market
 - Reliable reference
 - Competitive price



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E-SMART CLASSIC

Standalone Offline Locker Lock



E-smart Classic

One Touch RFID



ZP100

Push Button RFID



ZP200R

Standard Keypad



PT300BR

Locking Mechanism



SPRING LATCH



DEADBOLT

Features

- Support various RFID credentials (13.56MHz ISO 14443 Type A/B - Mifare, DESFire, HID, etc.)
- Free mode (Shared use) / Assigned mode (Permanent use)
- Multi-User / Multi-Locker
- Time based operation function (Auto opening, Time limit, 3 Shift)
- Audit trail (Up to 150)
- Lock information check (Lock ID, battery status, user card info, firmware version etc.)
- Easy lock setting and management by one Setup Card
- Easy to fit and retrofit (Metal, wood and laminate lockers)
- Spring latch / Deadbolt
- Powered by 4 AA batteries (Approximately 3~5 years battery life)
- IP55 rated for moisture and dust protection

E-smart Classic M

Metal Touch Screen



PT400TR



PT600TR

Metal Standard Keypad



PT400BR



PT500BR

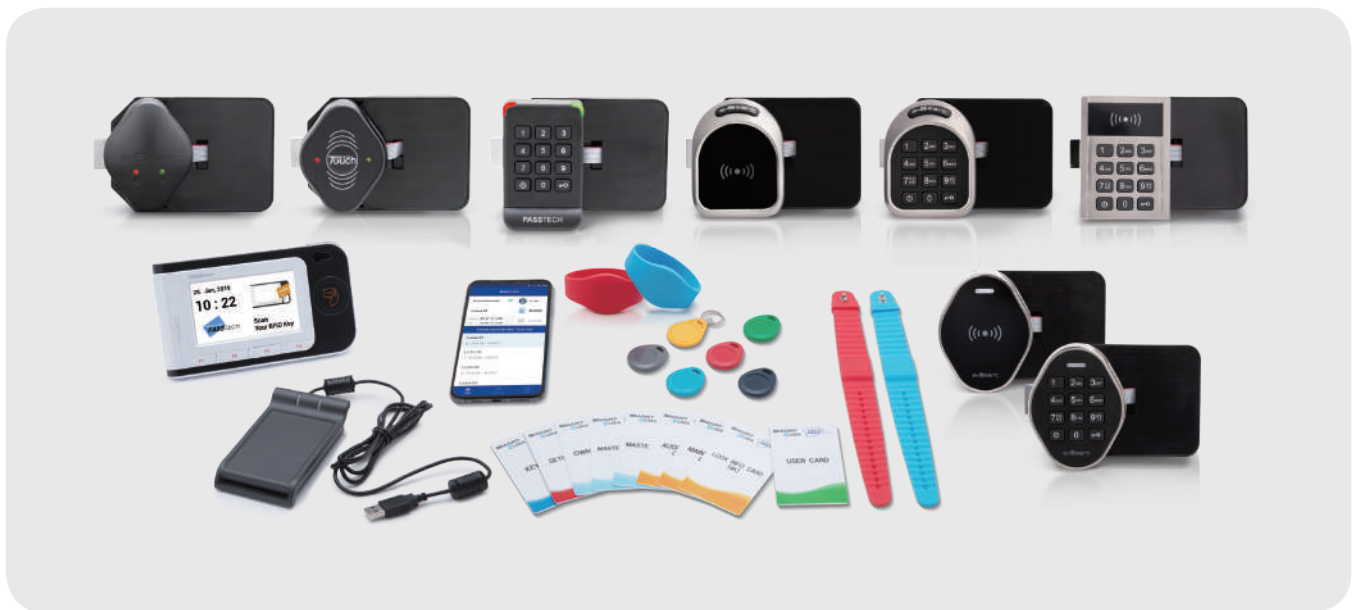


PT600BR

Features

- Metal housing
- BLE mobile access solution (Synchronize RF card and smartphone: E-smart Sync)
- Support E-smart Mobile Key (Cloud server generated mobile key - Optional)
- Support various RFID credentials (13.56MHz ISO 14443 Type A/B - Mifare, DESFire, HID, etc.)
- Free mode (Shared use) / Assigned mode (Permanent use)
- Multi-User / Multi-Locker
- Time based operation function (Auto opening, Time limit, 3 Shift)
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- Spring latch / Deadbolt
- Powered by 4 AA batteries (Approximately 3~5 years battery life)
- IP55 rated for moisture and dust protection

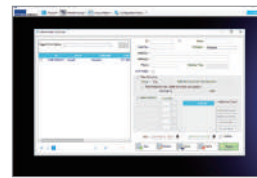
System Components & Key Features



DE-620
(RFID card encoder)



RFID
Credentials



E-smart Classic Plus⁺
(Lock operation software)



iTOUCH POP
(Info terminal)

Various User Credentials

Not only RFID, PIN code, but also BLE mobile access enable users to operate locks.

Lock Style on your preference

Users can choose either standard or metal front with spring latch or deadbolt.

Easy Management

Program and Maintain locks easily by RFID System Cards or smartphone.

Set real-time clock, time based operation, Master Cards all at once.

Time based operation

Locks operate automatically at the programmed time.

• Auto opening & 3 Shift

Locks open / close automatically up to 3 times in a day at the appointed time.

• Time limit

Locks open /close automatically after a set time period. Set time limit on user cards or locks.

Operation Mode

Locks can be operated as Free mode or Assigned mode.

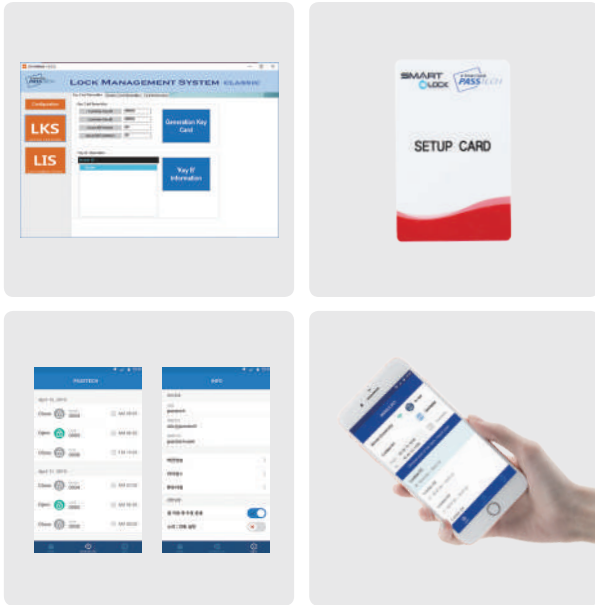
• Free mode

Users can choose a lock to use among available ones as they wish. Maximum 5 locks can be chosen (Multi-Locker).

• Assigned mode

User can operate and use a designated lock. Maximum 30 people can share one lock (Multi-User).

Lock Management

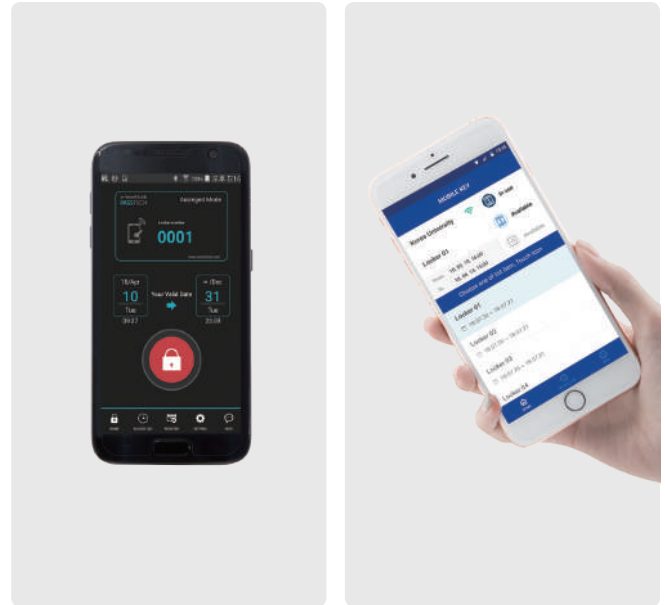


Management

E-smart locks can be programmed and managed efficiently by RFID System Cards or smartphone via Passtech management APP.

- Lock setting
- Maintenance
- Firmware download
- Audit trail
- Lock information check
- User information check
- Emergency lock open

Mobile Access

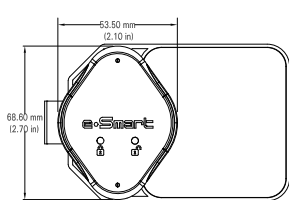


Mobile Access

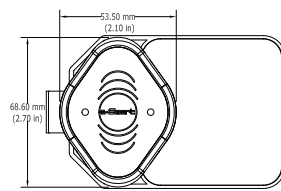
Users can operate E-smart locks by using either E-smart mobile sync or Cloud mobile key via Passtech user APP. The functionality brings users unique and convenient user experience.

- **E-smart mobile sync**
Synchronize access key of RF User Card and smartphone
- **E-smart mobile key**
Receive mobile key from E-smart cloud via APP

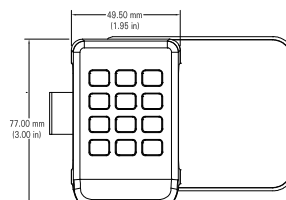
Dimensions



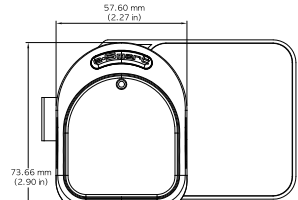
ZP100



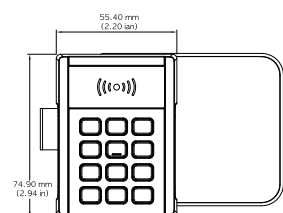
ZP200R



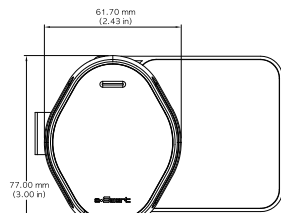
PT300BR



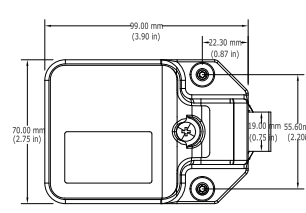
PT400TR / PT400BR



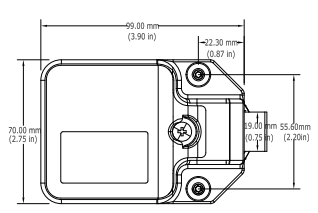
PT500BR



PT600TR / PT600BR



Spring Latch



Deadbolt



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E-SMART ULTRA

Wireless Online Locker Lock



E-smart Ultra

One Touch Online



ZP100WRN

Push Button Online



ZP200WRN

Touch Screen Online



PT200TWR

Standard Keypad Online



PT300BWR

Features

- Real-time monitoring
- Online setup and maintenance
- Audit trail (Online - Unlimited, Card - Up to 150)
- Remote lock open /close
- Remote lock and card blocking
- Change password online
- Change user information online
- Support E-smart Mobile Key (Cloud server generated mobile key - Optional)
- Support various RFID credentials (13.56MHz ISO 14443 Type A/B - Mifare, DESFire, HID, etc.)
- Free mode (Shared use) / Assigned mode (Permanent use) / Smart-Assigned mode
- Multi-User / Multi-Locker
- Time based operation function (Auto opening, Time limit, 3 Shift)
- Lock information check (Lock ID, battery status, user card info, firmware version etc.)
- Easy lock setting and management by one Setup Card
- Easy to fit and retrofit (Metal, wood and laminate lockers)
- Spring latch / Deadbolt
- Powered by 4 AA batteries (Approximately 3~5 years battery life)
- IP55 rated for moisture and dust protection

E-smart Ultra M

Metal Touch Screen Online



PT400TWR



PT600TWR

Locking Mechanism



SPRING LATCH

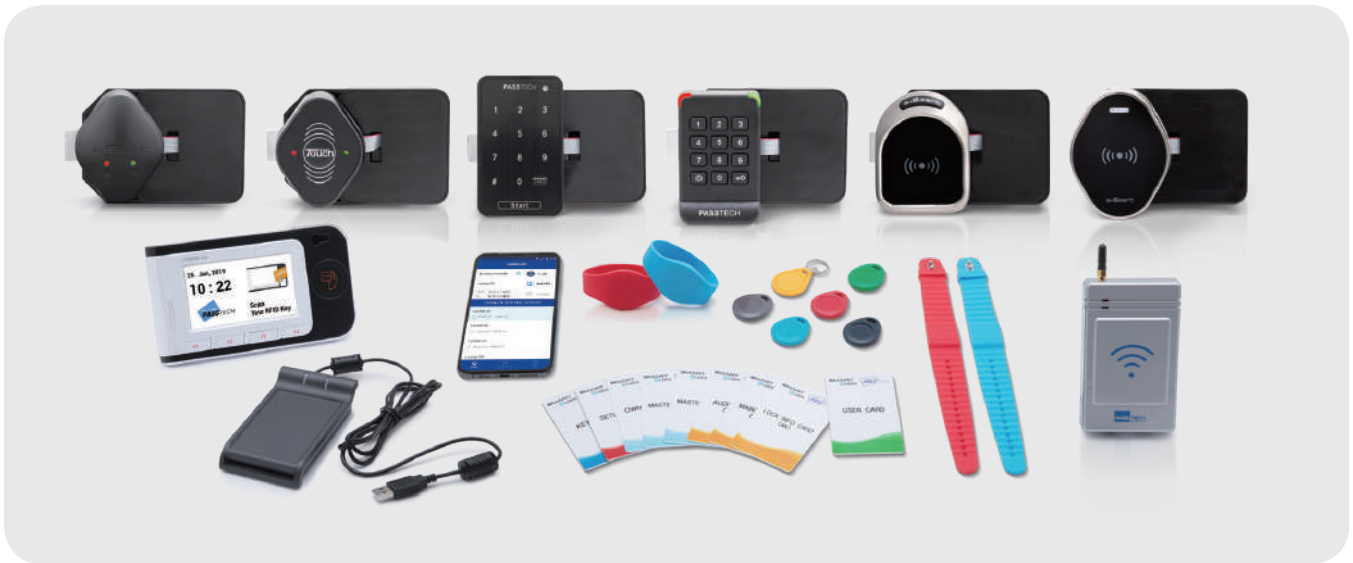


DEADBOLT

Features

- Metal housing
- BLE mobile access solution (Synchronize RF card and smartphone: E-smart Sync)
- Support E-smart Mobile Key (Cloud server generated mobile key - Optional)
- Real-time monitoring
- Online setup and maintenance
- Audit trail (Online - Unlimited, Card - Up to 150)
- Remote lock open/close
- Remote lock and card blocking
- Change password online
- Change user information online
- Support various RFID credentials (13.56MHz ISO 14443 Type A/B - Mifare, DESFire, HID, etc.)
- Free mode (Shared use) / Assigned mode (Permanent use) / Smart-Assigned mode
- Multi-User / Multi-Locker
- Time based operation function (Auto opening, Time limit, 3 Shift)
- Lock information check (Lock ID, battery status, user card info, firmware version etc.)
- Easy lock setting and management by one Setup Card
- Easy to fit and retrofit (Metal, wood and laminate lockers)
- Spring latch / Deadbolt
- Powered by 4 AA batteries (Approximately 3~5 years battery life)
- IP55 rated for moisture and dust protection

System Components & Key Features



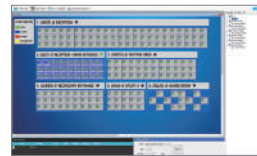
DE-620
(RFID card encoder)



RFID
Credentials



AP200
(Wireless access point)



E-smart Ultra Plus⁺
(Lock operation software)



iTOUCH POP
(Info terminal)

Wireless Online Configuration

Locks communicate with Server & Client via ZigBee through AP (Access Point) connected by TCP/IP.

Independent Operation

No risk of system failure on the occasion of server malfunction since they are battery-operated independent locks.

Various User Credentials

Not only RFID, PIN code, but also BLE mobile access enable users to operate locks.

Lock Style on your preference

Users can choose either standard or metal front with spring latch or deadbolt.

Easy Management

Program and Maintain locks easily by RFID System Cards or smartphone.
Set real-time clock, time based operation, Master Cards all at once.

Time based operation

Locks operate automatically at the programmed time.

• Auto opening & 3 Shift

Locks open / close automatically up to 3 times in a day at the appointed time.

• Time limit

Locks open /close automatically after a set time period. Set time limit on user cards or locks.

Operation Mode

Locks can be operated as Free mode or Assigned mode.

• Free mode

Users can choose a lock to use among available ones as they wish. Maximum 5 locks can be chosen. (Multi-Locker)

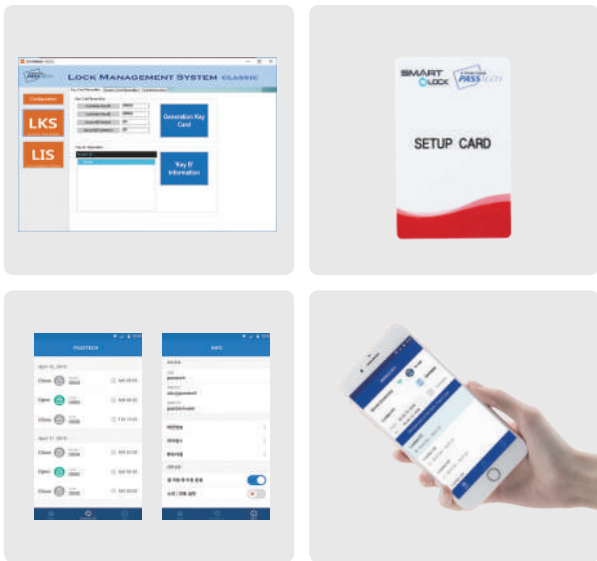
• Assigned mode

User can operate and use a designated lock. Maximum 30 people can share one lock. (Multi-User)

• Smart-Assigned mode

User can choose a closed lock to use as they wish without administrator's help.

Lock Management

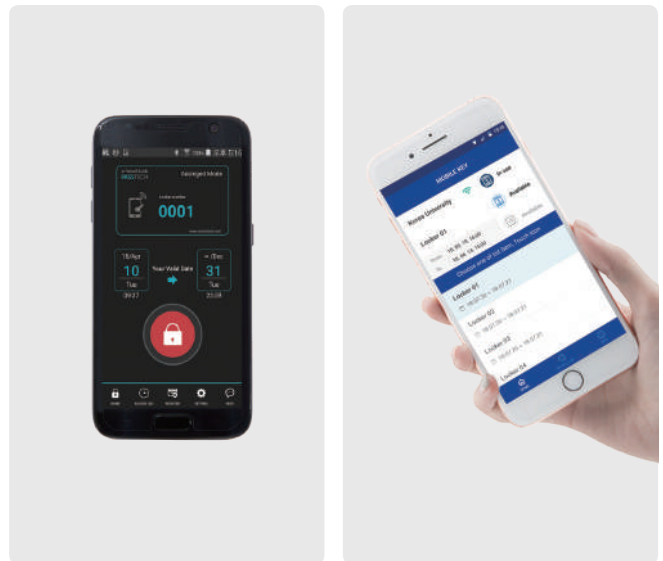


Management

E-smart locks can be programmed and managed efficiently by RFID System Cards or smartphone via Passtech management APP.

- Lock setting
- Maintenance
- Firmware download
- Audit trail
- Lock information check
- User information check
- Emergency lock open

Mobile Access



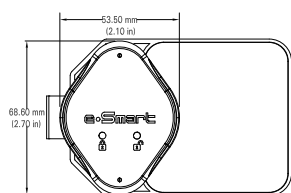
Mobile Access

Users can operate E-smart locks by using either E-smart mobile sync or Cloud mobile key via Passtech user APP.

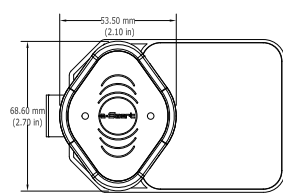
The functionality brings users unique and convenient user experience.

- **E-smart mobile sync**
Synchronize access key of RF User Card and smartphone
- **E-smart mobile key**
Receive mobile key from E-smart cloud via APP

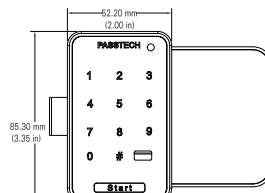
Dimensions



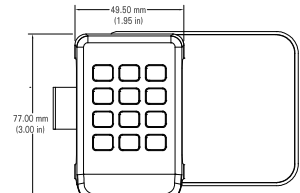
ZP100WRN



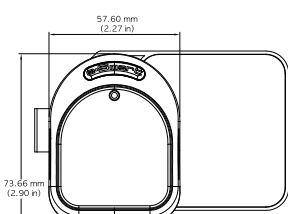
ZP200WRN



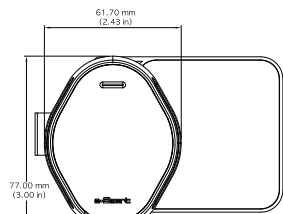
PT200TWR



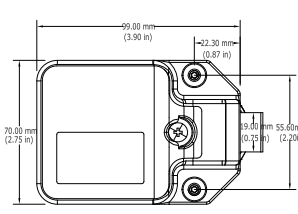
PT300BWR



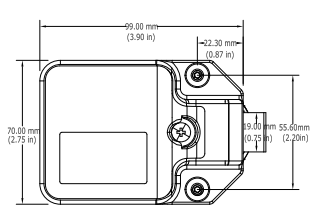
PT400TWR



PT600TWR



Spring Latch



Deadbolt

Standalone Locking System

E-smart Classic



ZP100



ZP200R



PT300BR

E-smart Classic M



PT400TR



PT400BR



PT500BR



PT600TR



PT600BR

Wireless Online Locking System

E-smart Ultra



ZP100WRN



ZP200WRN



PT200TWR



PT300BWR

E-smart Ultra M



PT400TWR



PT600TWR

System Components & Software



DE-620
(RFID card encoder)



iTOUCH POP
(Info terminal)



AP200
(Wireless access point)



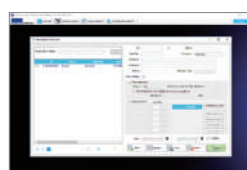
External
Battery Pack



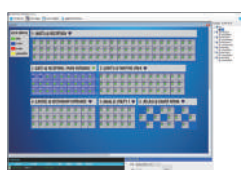
RFID
Credentials



LMS



E-smart Classic Plus⁺



E-smart Ultra Plus⁺



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E-SMART PLUS⁺

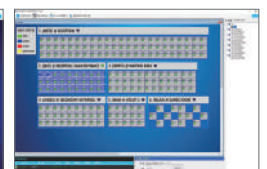
Lock Management Software



LMS



E-smart Classic Plus+



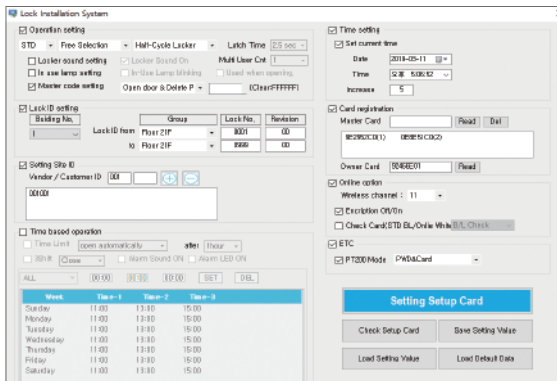
E-smart Ultra Plus+



E-smart LMS (For Distributor)

Lock Management Software

- LKS (Lock Key Management Software)
- LIS (Lock Installation Software)



Generate security key card for customers



Generate system cards



Issue Setup Card



Set lock operation mode



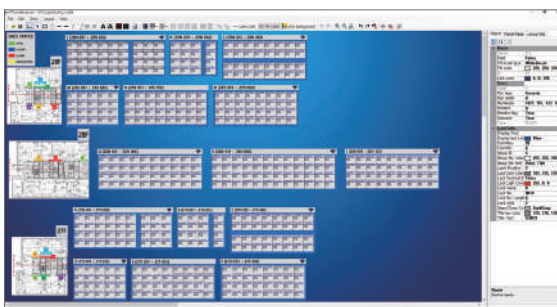
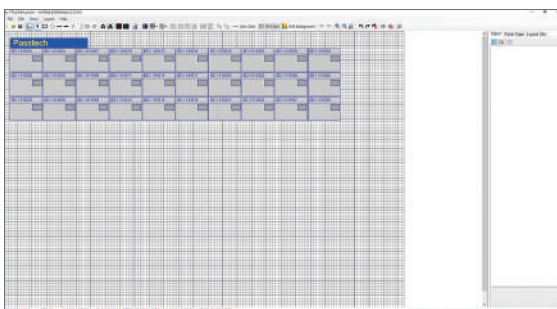
Program various operation parameters



Make blank cards

E-smart LCS (For Distributor)

Layout Configuration Software



Design locker layout as you wish



Select preferable locker design among templates



Locate each locker lock on the layout drawing



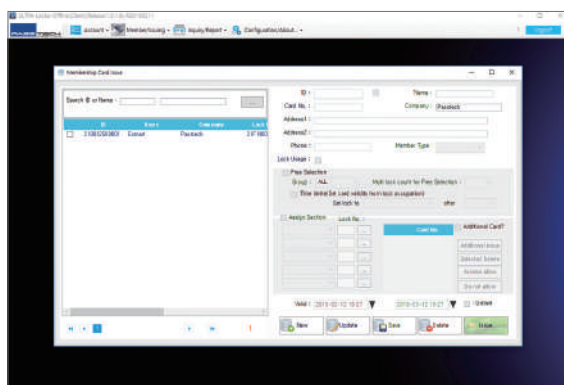
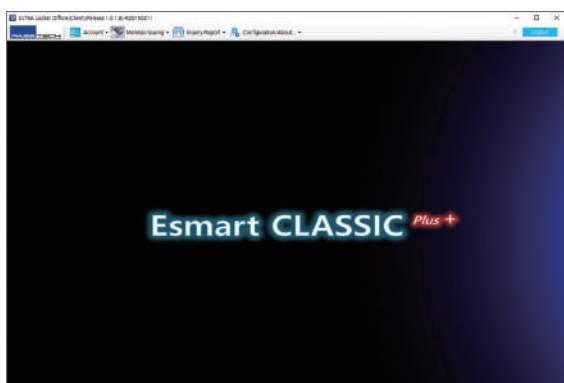
Use real layout drawing








Easy to check and manage locks

E-smart Classic Plus⁺ (For Customer)

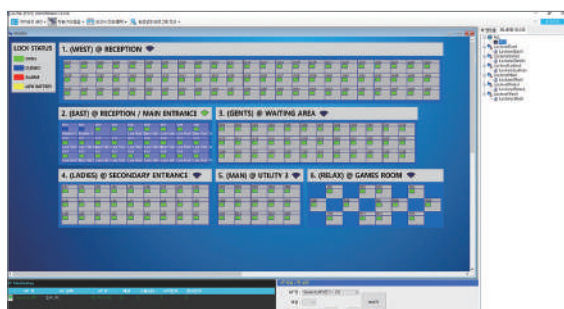
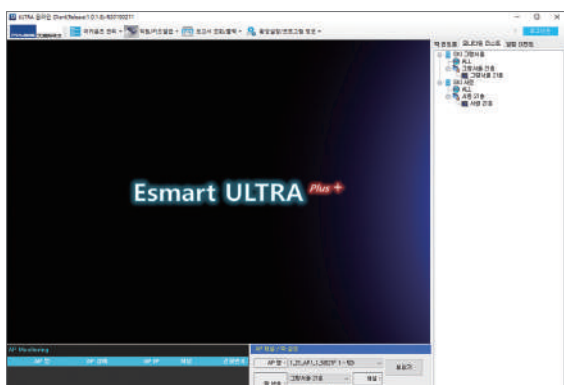
Offline Lock Operation Software













-  Account management
-  User Card issuance
-  Audit trail and lock info check
-  Lock maintenance
-  Generating report

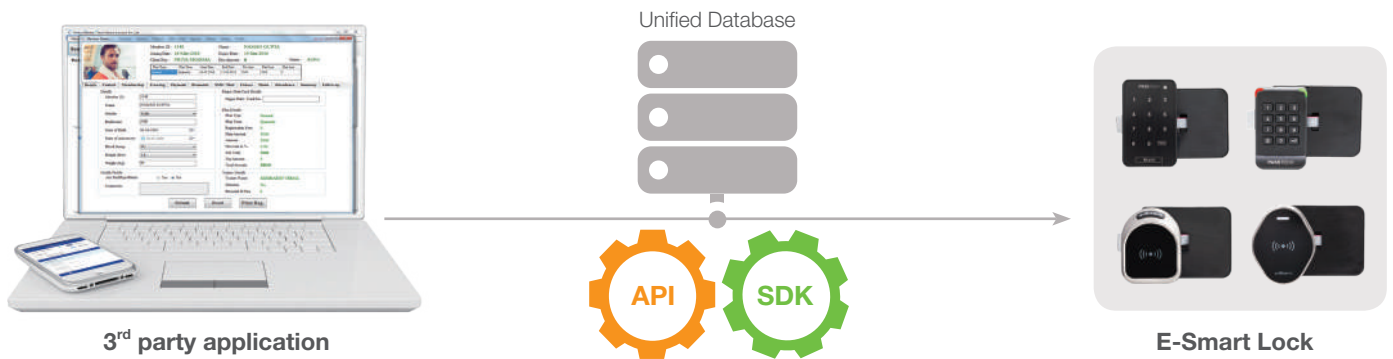
E-smart Ultra Plus⁺ (For Customer)

Online Lock Operation Software



-  All functions in E-smart Classic Plus⁺
-  Real-time monitoring
-  Remote lock open/close, block/unblock
-  Online user information change (RF cards, Password)
-  Online audit trail and lock info check
-  Online maintenance
-  Connect multi-client software (PC)
-  Customize monitoring layout
-  Powerful database management
-  3rd party interface (Shared DB)

E-smart SDK (Software Development Kit)



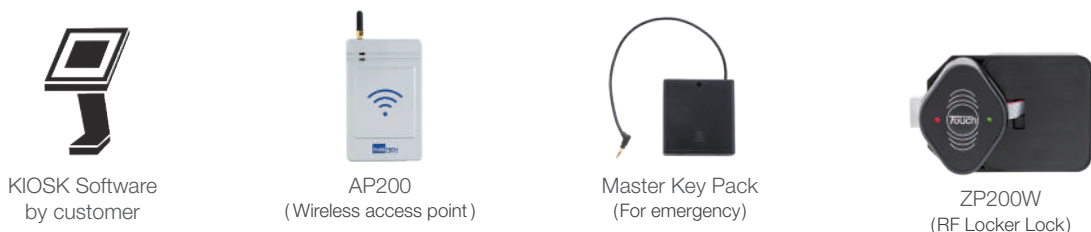
- Third-party software companies and end-users are allowed to operate and manage E-smart locker locks by utilizing E-smart locking solution API(Application Programming Interface) to control access within their own applications.
- Customer can create card issuance and management system for applications

SDK Packages	Provided by PASSTECH	Developed by Customer
RFID Standalone System (E-smart Classic)	<ul style="list-style-type: none"> • DLL for card issuance • API documents for card issuance • API sample program for card issuance • API sample source for card license for development period issuance • LMS 	<ul style="list-style-type: none"> • Customer uses LKS, LIS provided by PASSTECH as it is • Lock operation software(LOS) needs to be developed by customer
Wireless Online System (E-smart Ultra)	<ul style="list-style-type: none"> • DLL for card issuance • API documents for card issuance • API sample program for card issuance • API sample source for card license for development period issuance • LMS • AP interface document for Server & Client software • AP interface sample program • AP interface sample source 	<ul style="list-style-type: none"> • Customer uses LKS, LIS provided by PASSTECH as it is • Server & Client software needs to be developed by customer















E-smart KIOSK

- Custom kiosk configuration
- Use your own kiosk system to control locks through Wireless Access Point (AP200)
- Providing API and sample application that guarantee easy and fast system integration
- It can be integrated to any 3rd party kiosk system with flexibility

SDK Packages	Provided by PASSTECH	Developed by Customer
Wireless Online System (E-smart Kiosk)	<ul style="list-style-type: none"> • API document • AP interface sample program • AP interface sample source 	<ul style="list-style-type: none"> • Server & Kiosk system needs to be developed by customer



Function Comparison Table

	LMS	E-smart Classic Plus ⁺	E-smart Ultra Plus ⁺
 Security Key Card generation	○		
 System Cards generation	○		
 Lock programing	○		
 Card initialization	○		
 User card programing		○	○
 Audit trail (Card)		○	○
 Audit trail (Online)			○
 Maintenance (Card) : Time update, Change of Master Cards, Time operation, etc.		○	○
 Maintenance (Online) : Time update, Change of Master Cards, Time operation, etc.			○
 Lock info collection		○	○
 Lock status monitoring			○
Remote lock controlling			○
 Remote card or lock blocking			○
Remote user changing			○
Remote password changing			○
 Layout customizing			○
 Multi-Client			○
 3 rd Party Interface			○

System Requirements

	LMS	E-smart Classic Plus ⁺	E-smart Ultra Plus ⁺
OS	Window 10		
RAM	8GB or higher		16GB or higher
Admin privilege	No administrator right requirement		

Applications



Workspace



Education



Fitness



Hospitality



Theme Parks



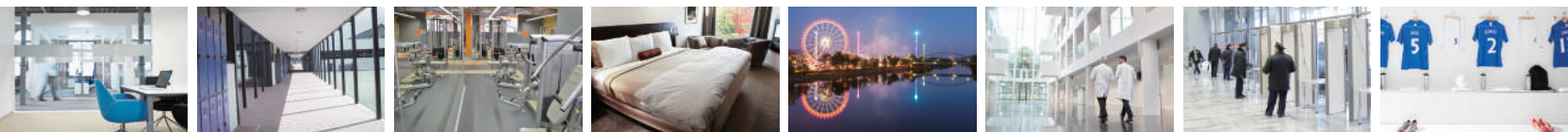
Healthcare



Government



Pro Sports



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www.smartelock.com (Hotel Lock Solutions)