

Kmuun P1

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Redefining In Locks in Compact Excellence

In the era of Intelligent home evolution, door locks—the first line of home defense—are undergoing transformative innovation. Kmuun P1 reimagines Intelligent lock standards by pushing hardware limits within a minimalist footprint, blending unrivaled functionality with sleek aesthetics to deliver ultimate security and convenience.

6 Years of Crafting Perfection

In early 2020, Kmuun's R&D team embarked on a mission to break industry conventions. While the market offered numerous smart locks, none achieved the ideal balance of size, performance, and design. The team committed to creating a compact yet powerful lock—where cutting-edge technology seamlessly integrates into daily life, not disrupts it.

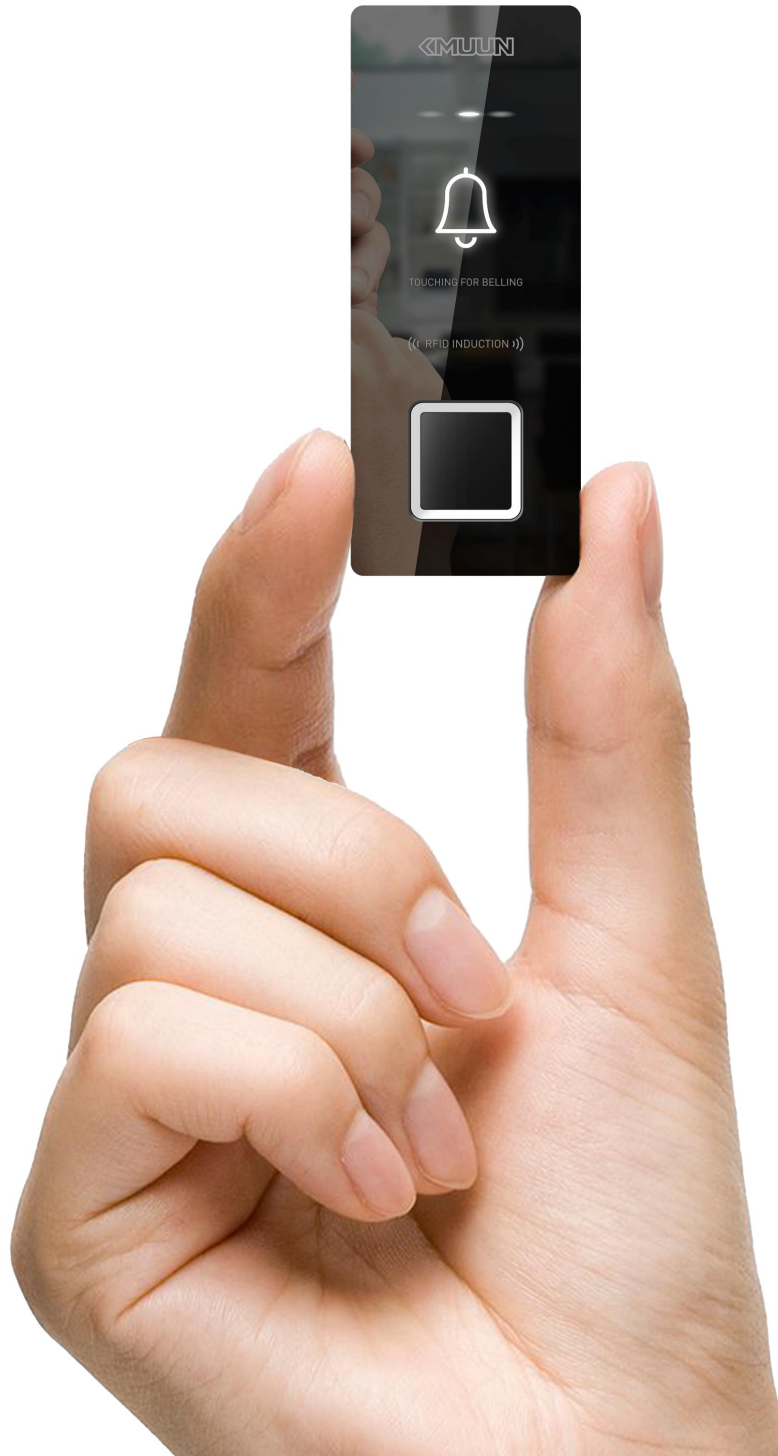
After a year of intensive development, the first-generation P1 launched in 2021. Yet the journey was far from smooth. The pandemic disrupted timelines, while shifting market demands raised user expectations. Undeterred, Kmuun's team pressed reset.

Through relentless refinement—countless lab hours spent optimizing every detail from aesthetics to mechanics, functionality to user experience—the reborn P1 emerged in early 2023. This wasn't just an upgrade from the T1 prototype; each iteration reflected Kmuun's uncompromising pursuit of perfection. Every user feedback fueled progress, every enhancement inched closer to the ideal Intelligent lock.

Kmuun P1

Less is more

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Outdoor units

Outdoor Unit - The Core of Kmuun P1,The outdoor module features a military-grade capacitive fingerprint sensor (192x192 resolution) with advanced recognition technology. It delivers instant, high-accuracy unlocking—even with worn or wet fingerprints—ensuring reliable security.

Controller

As the "brain" of the Kmuun P1 system, the controller manages lock connectivity and provides stable system support. It features: Status indicator light: Displays real-time operational status and facilitates quick troubleshooting.Reset button: Enables system initialization.Configuration button: Allows personalized function settings

Indoor units

Indoor unit is equipped with:Ringtone selection button - Supports multiple doorbell tones for personalized home ambiance.Door release button - One-touch unlocking for quick, secure access (including emergency situations) Wall-mount backplate - Easy installation.With a 15-meter wired connection to the outdoor unit, it meets most residential requirements.

Exquisitely Slim, Masterfully Crafted

Kmuun P1 achieves an ultra-slim design with exquisite craftsmanship. Measuring just 67mm(H) x 11.3mm(T), it represents a breakthrough in compact smart lock design.outdoor unit features a sleek black glass panel that delivers premium texture and modern aesthetics. With a remarkably thin 27mm width rarely seen in smart locks, it protrudes less than 1.8mm when flush-mounted, becoming nearly invisible while maintaining door aesthetics. Its durable construction provides distinctive metallic.The compact indoor unit maintains an 11mm slim profile after wall-mounting. It utilizes precision CNC-machined aluminum with anodized oxidation for both durability and space efficiency.The controller, also crafted from anodized aluminum alloy, protrudes only 3mm when mounted. It blends seamlessly into any interior setting whether installed on door hinges or ceilings.

The touch-sensitive doorbell panel replaces mechanical buttons with responsive touch technology. Users can activate the doorbell with a light touch, choosing from 7 ringtones.The multi-protocol RFID module supports various smart cards, enabling keyless entry with a simple tap to accommodate different user needs. Status LEDs visually indicate operation mode and battery level through color-coded lighting.Integrated Bluetooth antenna ensures stable connection with the Kmuun App for reliable remote management and control.



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Less is more

In early 2020, we wanted to create the easiest way to open a door. We dreamed of making a very simple lock that might become the smallest in the world. 'Simple' and 'small' became our main ideas, and so the project began.

We spent weeks looking at information, organizing our thoughts, and studying similar locks in stores. One product called ekey caught our attention. At that time, it was one of the best fingerprint door locks available.

The ekey looked very simple but had hidden problems. It only worked with fingerprints and missed other useful features. Setting it up was hard without instructions. Its Bluetooth app was difficult to use and confusing. This wasn't the product we wanted to make, so we decided to design something better based on real needs.

We thought carefully about how people would use this lock on their front doors. For the outside part, fingerprint scanning is the main way to open the door. But during testing, we found some fingerprints don't work well because they get worn or people have different fingers. So we decided to add card scanning too.

We also knew the doorbell was important for visitors. So the outdoor unit has three main jobs: read fingerprints, read RFID cards, and work as a doorbell. To make setup easier, we added Bluetooth so phones can help set it up.

Since the doorbell needs the indoor unit to work, and because pushing handles feels old-fashioned, we put a quick-open button on the inside unit. This makes everything simpler to use.

Versatile and Widely Compatible

Kmuun P1 is small and can be installed in many ways. The outside part can be hidden in the door or handle. This makes it look nice and keeps it safe from damage.

Indoor unit can be put on the wall or stand alone. You can choose how to install it based on your door type and what you like. It works well with all kinds of doors - wood doors, metal doors, and aluminum doors. It fits easily in different homes.

The control box can be hidden in the door side or put on the ceiling. You can choose where to put it so it doesn't make your home look messy.

Kmuun P1 is a top intelligent lock because of its special design, good ideas, and strong technology. It's not just a safe lock, but also a beautiful piece of home art. When you choose Kmuun P1, you choose a intelligent, easy, safe, and nice way to live.

Small and slim, Intelligent protection

Kmuun P1 is a tiny Intelligent lock that does big things. It pushes what small locks can do while keeping your home safe.

Smaller but better. P1 is not big and heavy like old Intelligent locks. It is very small and fits nicely in your life. It can hide in your door or work with your door handle. It keeps your home safe without being seen. When you need it, it works right away. When you don't need it, it blends in with your home.

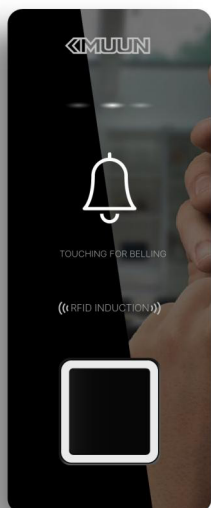
With the Kmuun P1, you get safety and ease. It reads fingerprints well. It works with RFID cards. The touch doorbell is easy to use. Bluetooth lets your phone control it. The Kmuun App does more - make digital keys, manage users, and check your door from anywhere. It starts your Intelligent home life in a new way.



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Less is more

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Less is more

Kmuun P1 outdoor unit is very small. The front panel measures 27mm wide and 67mm tall. The hole you need to cut for installation is 21mm wide and 61mm tall.

Even though it's small, it has many smart features. It can read fingerprints very well. It works with RFID cards. It has a touch doorbell button. It shows different colored lights to tell you how it's working. It can connect to phones using Bluetooth.

The metal case is made strong using special cutting machines. This makes sure it won't break and stays firmly on your door.

Kmuun P1 is very small, so it can hide inside your door handle or blend in with your door design. This makes your front door look more open and stylish. Because it's so small, it matches well with any home decoration style.

We know some people's fingerprints don't work well because they get worn or change with age. That's why the Kmuun T1 lets you open the door with your phone using Bluetooth. This helps when fingerprints don't work right.



Kmuun P1 Indoor Doorbell

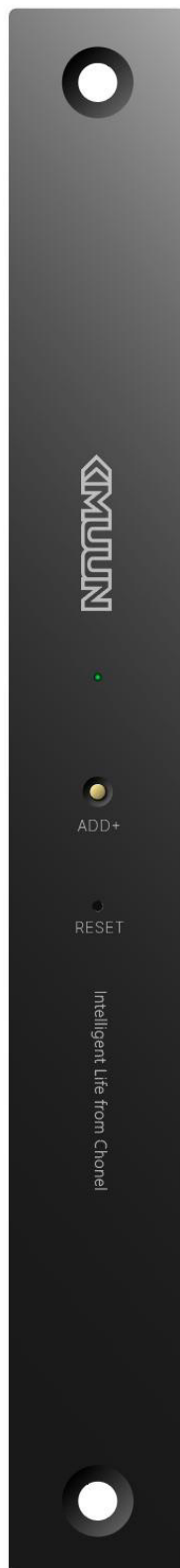
Small and Well-Made

Kmuun P1 indoor unit is made from strong metal that gets special treatment to look nice. It is about the same size as the outdoor unit. It has a doorbell sound, a button to change the ringtone, and a button to open the door. You can install it by itself or pair it with the outdoor unit.

The indoor unit talks to the outdoor unit and control box through wires, and they need to be within 15 meters of each other to work properly.

You can install the indoor unit in two ways:
Mount it on the wall / Put it inside the wall
You can also attach it to the inside door handle if you make some small changes. This makes the lock look like it's part of the door.

Here's an important safety feature: After you set up the indoor and outdoor units with the control box, they only work with each other. If someone tries to change the outdoor unit, the door won't open. This keeps your lock safe and working right.



Kmuun P1 Controller

Making Entry More Secure

Standard locks that use simple electrical connections can be unsafe. They only need two wires to be touched together to open, which makes them easy to hack. Many fingerprint locks or other control panels connect directly to the lock for easier installation. But if someone breaks the outdoor panel, the door loses protection and can be opened easily.

At Kmuun, we made security our top priority. First, we connected all lock controls to the indoor unit. This means even if the outdoor unit is broken, thieves can't access the wires to open the lock.

With the Kmuun P1, we made security even stronger. We designed a separate lock controller instead of connecting through the indoor unit. This controller is installed on the door hinge side and can't be removed when the door is closed. It also uses secure codes to communicate with the indoor and outdoor units, stopping any illegal unlocking.

In future products, we will keep improving the lock controller to make door security even better.

Kmuun P1 controller does important jobs like connecting to the lock, controlling it, and providing power. It also has helpful features like status lights, reset buttons, and setup buttons. These buttons sit safely on the hinge side of your door, making the lock more secure and reliable.

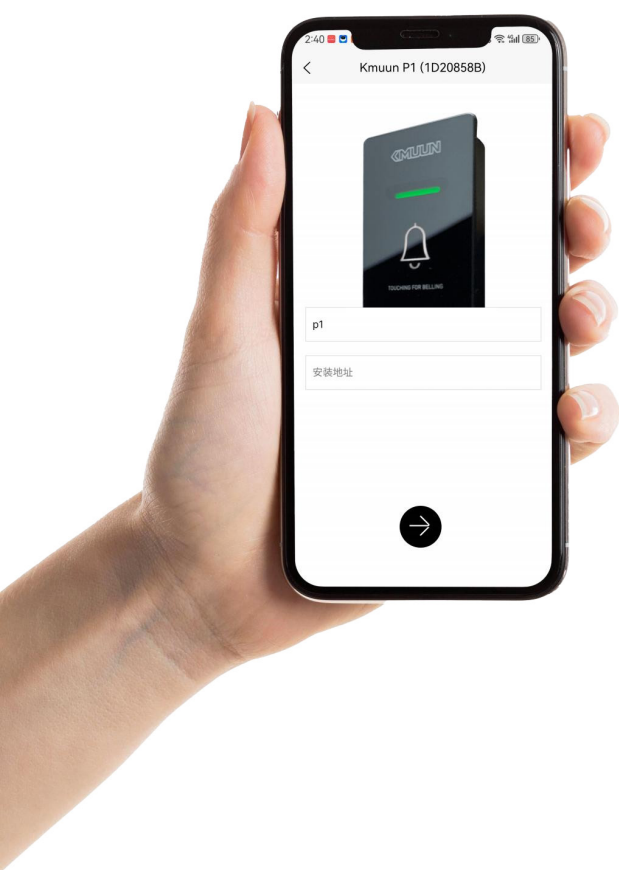
Many locks use simple "dry contact" signals because they work easily with different systems. This method uses its own power and just needs two wires to touch briefly to unlock the door. It's quick and works with many locks.

But this simple design also makes it easier for thieves to break in. The good news is - if we keep the control parts in a secure place inside the door, this system can still be very safe. In fact, this improved dry contact method could become the standard for all smart locks in the future because it works with so many different doors.

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Single-Fingerprint Entry Access System

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Intelligent Control with Bluetooth App

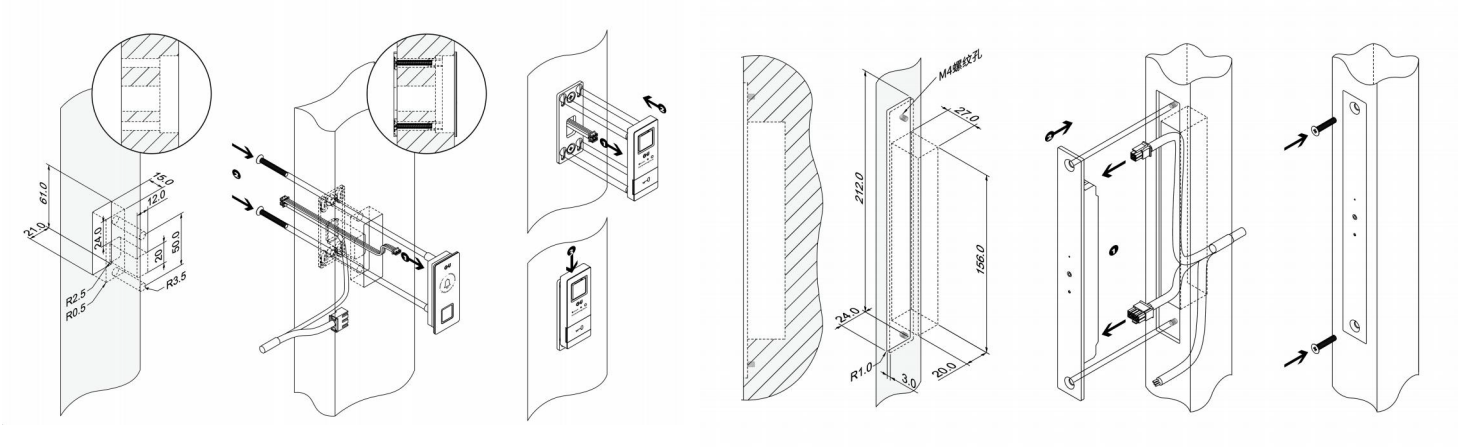
Kmuun App lets you control your Kmuun P1 easily. Just install the app on your phone and connect to the lock with Bluetooth. You can then unlock your door from anywhere – whether you want to open it early as you come home or give temporary access to a visitor.

With the app, you can: Add multiple users and set different access rules (like time limits or number of unlocks). Check who opened the door and when, so you always know who enters your home. When we made the lock this small, it was both exciting and very challenging. We wanted to create something special that people would remember.

But the journey wasn't easy. We faced strict size limits, pandemic delays, Shanghai's lockdown, trade conflicts, and even chip shortages. After many struggles, the Kmuun T1 was finally ready in early 2023.

The installation of Kmuun P1

Can be divided into 3 parts according to the drawings



Installation Steps - 1

How to make door holes

First, choose where to make the hole on the door. The best height is between 1.35 meters and 1.55 meters from the floor. Then use a CNC machine to cut the main hole in the outside door panel. This hole should be slightly bigger than 21mm by 61mm with rounded corners. After cutting this hole but before attaching the door panels, remember to put all the necessary wires inside the door first. Once the door panels are installed, use a drill to make three more small holes based on the main hole's position: Two holes for screws / One hole for wires. Make sure these three holes are evenly spaced and follow the instructions exactly.

Notes: Do not make the holes too high or too low. When running the wires, carefully check their position relative to the lock and wire guides. Always use the wires provided by Kmuun. Do not use other wires. During installation, be very careful with the wires to avoid damage.

Steps - 2

Installation of in&outdoor units

The indoor & outdoor units attach to your door panel as a set. If you want to mount them on the handle or another spot, check that: The back of the outdoor unit has space for screws. You can tighten the screws properly.

Securing the Outdoor Unit: The outdoor unit locks into place using the indoor unit's base plate. Connecting the Indoor Unit: After wiring, align the indoor unit and slide it down until it clicks tight.

Steps - 3

Installation of controller

Install the controller on the door hinge side. Prepare the wires and connectors in advance (standard wiring). Cut the holes according to the drilling guide.

Insert the connectors into the correct terminals on the controller. Tighten the screws to secure it. We provide standard pre-colored wires for easy connection. For our standard locks: Just plug the connectors into the matching ports. For power supply: Use an Ethernet (network) cable or connect the wires directly.

Wiring

Control wiring length

Kmuun P1 can be installed in door handles or other custom locations. We offer customized handles, panels, and mounting solutions to fit your needs. It can also be redesigned for wall-mounted installation. Due to power and signal limits, keep wires between in/outdoor units and the controller under 15 meters.

For special wiring setups, Kmuun must provide custom cables. Customers can wire the controller to the power supply but must use shielded cables to prevent interference.