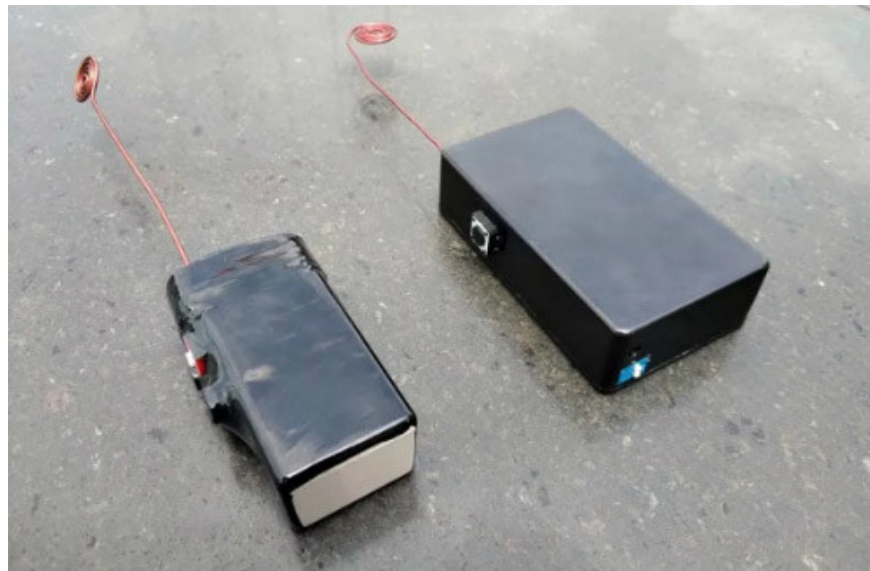


# The 'magic' box can open all kinds of smart door locks in 3 seconds

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This 'miracle' box is a homemade Chinese product, used by a woman named Wang to unlock 8 smart door brands equipped with fingerprint or NFC security technology on the spot. in super short time. This incident took place in May last year at the International Door Industry Expo in China.

The small box is black, there is only one button on the body and a copper coil looks like an old mosquito repellent incense (Tesla coil) attached to a corner.



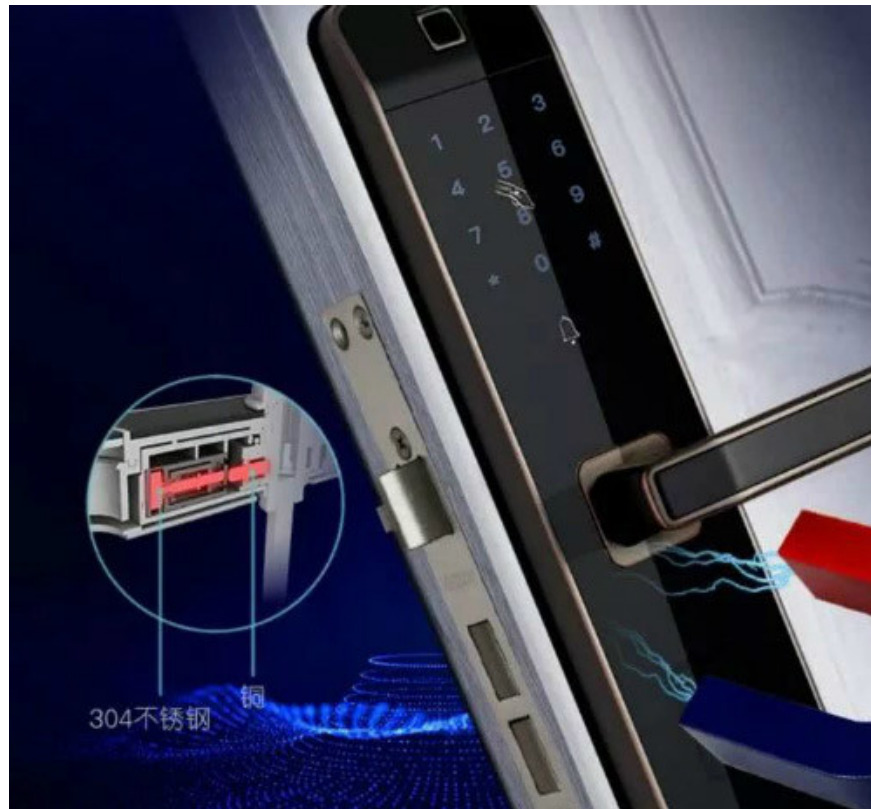
The device has a simple design but can open many kinds of smart door locks.

Information about the 'miraculous' box that can be unlocked by smart within 3 seconds is spread quickly and many people are worried.

According to technology experts, the mechanism of operation of the box is similar to creating artificial lightning. Inside the box containing the transformer has the effect of converting the low voltage of the battery into a high voltage. When the voltage is amplified and placed near other metal devices, it can form visible sparks in the air. The box was built to remove electrical sparks but still cause an abnormal voltage increase.

Smart door locks have complex internal structures but are still affected by high voltage. When the voltage rises excessively, it will create an electric current that causes the circuit of the lock to be overloaded. Meanwhile, the smart lock will be cut off and restarted because these devices have short-circuit protection chip. Many smart locks now have a restart process that is by default opened.

This is how this 'magic' box does not need to be in direct contact and ignores all security mechanisms to open many kinds of smart locks in very short time.



Many smart doors have a restart mode and open themselves when a short circuit occurs from the inside. Just a few days later, on the e-commerce sites in China, many smart door-breaking devices were sold with compelling advertisements that worried many people.

But according to experts, this security error is not difficult to solve. Manufacturers can create an electromagnetic shield to avoid interference from external energy sources by adding a metal cover to cover the entire electronic part of the lock. In addition, they can also use a module to stabilize voltage when designing circuits, but this will increase the cost of smart door locks.

This makes many people wonder whether smart lock and traditional mechanical lock, which is safer. There is practically no safe door lock and no key can open all kinds of locks. The 'magic' unlock box will not work with smart doors designed not to automatically open even if a short circuit occurs.



Concerned that this "multi-purpose" black box will become a tool for criminals, China's major e-commerce sites have blocked the sale of products related to the device.

#### **Advice for consumers when buying smart door locks by experts:**

1. Be careful with cheap products. Because to reduce costs, merchants can "cut" a part of the product that users do not know.
2. Integrate many ways to unlock on a device, besides fingerprints can use magnetic cards, passwords.
3. Learn the internal structure as well as the security information from the manufacturer before deciding to buy smart door lock.

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