

## QR Code Intelligent Locker Specifications

No.	Type	Descriptions	
		Normal Locker	<b>Rakinda QR Code Intelligent Locker</b>
1	NFC	Only supports 125K ID cards or only supports 13.56M MifareOne cards, cannot read identity	Supports 13.56M high frequency 14443-typeA and 14443-typeB cards, and can also directly read ID cards
2	Verification Method	Fingerprint, key, magnetic card and mobile APP, but the fingerprint recognition rate is low, the risk of being cracked is bigger	Key, magnetic card and WeChat applet, and added a two-dimensional code reader RANKINDA 4200P with independent core decoding technology. The mobile phone QR code reader uses low-power wide-angle distance and high-precision recognition. QR code reader, decoding only takes 0.04 seconds, CMOS technology, strong anti-interference ability. It can be quickly verified by scanning the encrypted QR code, which is difficult to crack. The communication of WeChat applet also has encryption guarantee.
3	Communication	Using a single WiFi or ZigBee or Bluetooth, when the communication link is disconnected, it will not be able to communicate with the background management system, and the ZigBee communication has a high bit error rate in the actual measurement, which affects the use effect.	Using NB-IOT and low-power Bluetooth (BLE) dual link as the communication method, NB-IOT communicates directly with the background server. When the NB-IOT link is unreachable, BLE is used, and the Bluetooth power-collecting box independently developed by the room is used. And the self-developed Bluetooth gateway is returned to the background via the wired network. The existence of the alternate communication link greatly enhances the communication quality, and the mechanism of verification and failure retransmission is added to the communication to reduce the impact of the error rate on the communication.
4	Lock body material	Zinc alloy is cheaper to produce, but because zinc alloy is hard and brittle, the door lock is easily damaged when subjected to strong impact, and zinc alloy is not easy to make high-grade shape.	Aviation grade aluminum alloy, which balances the plasticity and firmness, is not easy to be broken by strong impact, can be made into high-grade shape by anodizing and mirror polishing, using a whole piece of aluminum ingot, using a one-piece molding process to ensure the lock body Consistency of appearance, reducing the possibility of the lock body being opened
5	Lock body panel	Acrylic, low cost, light transmittance, easy to scratch, hardness, compression is easy to deform, melting or even burning in case of fire, low safety factor	Tempered glass panel, high cost, good transparency, not easy to scratch, high hardness, pressing is not easy to deform, will not melt when exposed to fire, high safety factor
6	Encryption	Using AES, DES, RSA and other international software cryptographic algorithms, most of the algorithms are hackable and the protection level is not high.	The financial level security encryption chip module certified by the National Cryptographic Bureau provides national secret algorithm support for the decoding of the two-dimensional code during use and the communication between the device and the background. Some of the algorithms can only be implemented by hardware, and the algorithm is not received. Message, higher level of protection