Smart Shoe Changing Locker

The Smart Shoe Changing Locker is an intelligent management device designed for modern smart hospitals. Based on IoT and automated control technologies, it focuses on the storage and efficient management of personal shoes and belongings for medical staff. Through digital management, it standardizes operating room workflow and enables accurate traceability for either “assigned dedicated lockers” or “shared lockers,” effectively improving operating room efficiency and safety. It is an essential standardized facility for the construction of smart operating rooms.

Key Features of Smart Shoe Changing Locker

01 Intelligent system with scientific allocation; no extra operations required

02 Door status detection: voice alert immediately if a door is not properly closed

03 Flexible modular combination: multiple columns can be freely combined according to on-site requirements

04 Custom electronic locks ensuring over 300,000 reliable open/close cycles

05 Remote control, dedicated locker assignment, abnormal event alerts, etc.

06 Nearest allocation: customizable identity information matches the cabinet position and height for unlocking

Specification of Smart Shoe Changing Locker

Component	Detailed Specifications
Operation Display	15.6-inch capacitive touchscreen, 192×108 resolution
Identity Verification	Supports facial recognition, IC card, and account/password authentication
Networking	Wired network, Wi-Fi
Overall Dimensions	Main cabinet: W×D×H 400×450×195 mm; Auxiliary cabinet: W×D×H 650×450×195 mm
Single-Compartment (Door) Size	8-door: 305×450×440 mm; 10-door: 305×450×351 mm; 12-door: 305×450×291 mm; 16-door: 305×450×217 mm; 18-door: 305×450×193 mm; 20-door: 305×450×173 mm; 24-door: 305×450×142 mm (W×D×H)
Cabinet Body	1) Cabinet made of high-quality galvanized steel sheet, 0.8 mm thickness; surface treated through multiple processes (degreasing, acid pickling, phosphating, anti-rust treatment) and finished with electrostatic powder coating—easy to clean, resistant to stains and wear. 2) Doors made of galvanized steel sheet, 1.0mm thickness; reinforced ribs on the back improve impact resistance. Door sides feature a curved profile at a certain angle to reduce the risk of accidental bumps or injuries. 3) Unique hinge shaft and adjustable leveling feet: hinge includes a bushing, and with adjustable feet effectively prevents door jamming.
Lock Control	1) Equipped with an anti-pry emergency cover and dedicated lock to maximize unobstructed access and cabinet security. 2) Electromagnetic electronic lock with 360° anti-pry design and anti-shim insertion device; supports door status detection.
Mainboard	Quad-core CPU, 4 GB RAM, 32 GB storage
Operating System	Android 11
Emergency Measures	1) In emergencies, doors can be opened manually via emergency unlocking. 2) Offline operation supported during network outage; data uploads automatically when the network is restored. 3) Backup power supports uninterrupted operation for 1 hour or more after power failure.
Other Functions	Modular design; flexible compartment capacity configuration based on hospital needs; supports both fixed allocation and shared (floating) allocation of compartments.

Application Scenarios of Smart Shoe Changing Locker

Automated Dispensing

Smart Receiving

Smart Storage

Medical Consumables Distribution

Successful Cases of Smart Shoe Changing Locker

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