



Smart Changing Locker

The Smart Changing Locker is an intelligent management device designed for modern smart hospitals. Utilizing IoT and automated control technologies, it focuses on the secure storage and efficient management of healthcare staff's personal clothing and carry-on items. Through digital means, it standardizes operating-room workflow and enables accurate traceability for both assigned (fixed) lockers and shared lockers, effectively improving operating-room management efficiency and safety. It is an essential standardized device for building smart operating rooms.

Key Features of Smart Changing Locker

- 01

Customized electronic lock ensuring over 300,000 reliable open/close cycles
- 02

Intelligent system requiring no extra operations; scientifically allocates lockers
- 03

Door status detection with immediate voice reminder if the door is not properly closed
- 04

Free modular combination; locker columns can be combined according to on-site needs
- 05

Remote control, fixed-locker assignment, exception alerts, etc.
- 06

Nearest-available allocation; customizable identity information matches the locker position and height for access

Specification of Smart 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 login
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-door Dimensions	2-door: W × D × H 305 × 450 × 178 mm; 4-door: W × D × H 305 × 450 × 885 mm; 6-door: W × D × H 305 × 450 × 588 mm
Cabinet Body	1) Cabinet made of high-quality galvanized steel sheet, thickness 0.8 mm; surface treated through multiple processes (degreasing, pickling, phosphating, anti-rust treatment) and finished with electrostatic powder coating—easy to clean, resistant to stains and wear. 2) Door panel made of galvanized steel sheet, thickness 1.0 mm; reinforced ribs on the back improve impact resistance; both sides of the door feature a curved profile at a certain angle to reduce accidental bumps and injuries. 3) Unique hinge shaft and adjustable leveling feet design: a bushing is added to the hinge shaft, and together with adjustable feet, effectively prevents door jamming.
Lock Control	1) Equipped with anti-pry emergency cover and dedicated lock to ensure unobstructed access in emergencies and maximize locker security. 2) Electronic lock adopts electromagnetic design, 360° anti-pry structure, anti-shim insertion feature, and includes door status detection.
Mainboard	Quad-core CPU, 4 GB RAM, 32 GB storage
Operating System	Android 11
Emergency Measures	1) In emergencies, the door can be opened manually via emergency unlocking. 2) Operates offline when the network is down; data uploads automatically after network restoration. 3) Supports backup power for more than 1 hour after power outage.
Other Functions	Modular design; locker capacity can be flexibly configured per hospital needs; supports both fixed assignment and dynamic/shared allocation of compartments.

Application Scenarios of Smart Changing Locker



Automated Dispensing



Smart Receiving



Smart Storage



Medical Consumables Distribution

Successful Cases of Smart Changing Locker



Union Hospital Tongji Medical
College Huazhong University
of Science and Technology



Chinese PLA General Hospital