Technology Solutions for Retail

Smart Cabinet for Drug Management



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Product Introduction

This product is a smart storage device designed for managing fentanyl drugs, built around an intelligent control system. The cabinet includes locks, smart storage units (including drawers), empty-vial recovery units, containers for collecting residual liquid, and more. The intelligent control system includes a human-machine interface module, identity recognition module, alarm module, information logging module, network module, and more. It ensures secure storage and smart management of anesthetic drugs and meets the strict control requirements of medical institutions for fentanyl.

Features

1. Accurate supervision and statistics. The system can connect to the HIS to dispense drugs accurately to hospital departments and operating rooms based on prescription data, and intelligently analyzes that information to ensure safety and accuracy.

2. Data management and smart tracking. The system logs the operator, operating time, equipment use, and drug dispensing and recovery in real time, and uses distributed data storage to keep data secure and reliable, providing solid support for drug tracking and management.

3. Automatic, smart inventory counting. Through the smart storage unit, the system automatically counts and manages drug inventory to ensure correct quantities and reduce the tedious work and errors of manual operations.

4. Dual lock and dual identification for two people. Dual-lock and dual-identification technology — smart electromagnetic lock + dual mechanical lock, facial recognition, fingerprint, IC card, password and other authentication methods — enables two-person dual control, ensuring only authorized staff can open the smart cabinet. Unauthorized access, vibration, forced opening and similar events trigger the alarm system for added drug security.

5. Support for custom requirements. Custom design is carried out according to each organization's specific management needs, meeting ODM and OEM requirements.

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Technical Specifications

Display	22” touch (1920×1080, 16:9)
Operating System	Windows / Android
Configuration (option 1)	Intel i5, 8GB RAM, 256GB SSD
Configuration (option 2)	RK3399, 4GB RAM + 32GB
Access control	Binocular camera, card reader, code scanner
Structure	4 levels of storage drawers, 1 recycling level, separate drawer for liquid waste
Identification technology	RFID UHF
Capacity	≥ 500 items (depending on tags and materials)
Read range	≤ 5 cm
Connectivity	Standard: RJ45, USB / optional: Wi-Fi, 4G
Integration	SDK / API available
Power	AC 220V, 50Hz
Consumption	≤ 150W
Material	1.0 mm carbon steel
Installation	Fixed (feet) or mobile (wheels)
CCTV	Top wide-angle camera
Dimensions	600 × 650 × 1865 mm
Operating conditions	-20°C to +60°C
Storage conditions	-25°C to +70°C
Humidity	25% – 50%

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