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IOT Application Expert

Products



RFID Smart Medical Consumables Cabinet

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1. Product Introduction

RFID smart medical consumables cabinet is one of the Rovinj's self-developed RFID medical consumables management solutions. The cabinet integrates various intelligent device such as RFID reader, RFID antennas, Android integrated machine, IC swipe card device, temperature and humidity controller, etc. It can automatically manage the consumables with RFID labels inside the cabinet. The user scans his IC card to unlock the door → take out/put in→ close the door to automatically confirm the take out/put in operation, and the system will show consumables details, time of taking and other information. There are also daily or monthly inspections and other operational modes, which can help grasp the quantity, types and status of consumables in real time, data acquisition and realize efficient and intelligent management of consumables.

Industry Application: It is mainly used in medical, aviation, electric power, fire protection, machinery, railway and other industries to realize automatic and fast borrowing, returning, positioning, searching and maintenance of consumables.



2. Product Features

*Informationize: System can check the consumables in real time, and record the information of each consumable.

*Automatic: Eliminates the cumbersome process of manual scanning, inventory, and logging, enabling fast and batch management.

*Efficient: [Automatic + informationize] replaces the traditional manual work. The computer realizes automatic data acquisition, which greatly saves labor costs and improves work efficiency.

*Intelligent: When the inventory of consumables is insufficient, the system will automatically alarm and generate a report to send to the relevant person in charge, so that he can replenish in time.

*Real time monitoring: the system realizes the function of remote real-time monitoring, including the inventory status of consumables, the time of being taken out and put in. And the inventory early warning will display on the web page.

3. Efficiency

The inventory efficiency is increased by more than 10 times. The original manual inventory costs 5-10 minutes, while the automatic inventory with RFID intelligent management system costs only 3-5 seconds.

4. Specifications

Main specification index	
Model	ROV-R510
Overall	
Weight	About 100kg
Size (height * width * depth)	2000*1100*600 (mm)
Shell Material	Spray-paint Carbon Steel
Shelves	
Number of Shelves	5
Height	380mm (Adjustable)
Depth	550mm
Load Bearing Capacity of Each Shelf	50KG
Power Source	
Voltage	220VAC (±10%) 50±3HZ
Power	50W
Operating Environment	
Humidity	20%~85% (no condensation)
Temperature	-20°C~60°C
Operating System	Android 5.1.1

Industrial Computer	RK3288/4 core frequency 1.8Ghz
Programmable Controller	Domestic
Electric control system	Combine domestic PLC
Read-write device	Domestic (With Imported E710 chip)
Number of Tag Reading	200+pcs
Reading Efficiency	3~5 seconds
Reading Mode	Motionless
Screen	15.6-inch capacitive screen 1280*800 (16:9)
RAM	2G
Storage	8G
Communication	TCP/IP、WIFI、4G
Shielding distance	20~50CM
Opening speed	1 second
Efficiency	Manual