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IOT Application Expert

Products



RFID Smart Medical Consumables Cabinet

Guangzhou Rovinj Mdt InfoTech Co.,Ltd

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 devices such as RFID reader, RFID antenna, Android all-in-one PC, IC card reader, humidity controller, etc. It can automatically manage the consumables with RFID tags inside the cabinet. The user scans his IC card to unlock the door → take out/put in → close the door to automatically confirm the operation. The system will show the user's information, consumables details, borrowing/returning time and other information. There are also daily/monthly checking and other functions, which can help collect the data of quantity, types and status of consumables in real time, realizing efficient and intelligent management of consumables.

Industry Application: It is mainly used in medical, aviation, electric power, fire protection, machinery, railway and other industries, realizing automatic and easy inventory management of consumables.



2. Product Features

*Informationized: The system can check the consumables in real time, and record the information of each consumable.

*Automated: Greatly simplifies the processes of scanning, inventory, and logging, enabling fast and batch management.

*Efficient: 「Automated + informationized」 replaces the traditional manual operation. 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 alert, generate a report, and send to the relevant person in charge, so that the consumables can be replenished in time.

*Real Time Monitoring: The system realizes the function of remote real-time monitoring, including the inventory status of consumables, as well as the putting/taking time. And the inventory early warning will display on the web page.

3. Efficiency

The inventory efficiency is increased by more than 10 times. Suppose that manual inventory costs 5-10 minutes, then the automated inventory with RFID intelligent management system costs only 3-5 seconds.

4. Specifications

Main Specifications	
Model	ROV-R512
Overall	
Weight	About 80kg
Size (height * width * depth)	2096*800*641 (mm)
Enclosure Material	Spray-paint Carbon Steel
Shelves	
Number of Shelves	5
Height	380mm (Adjustable)
Partition thickness	18mm
Size (width * depth)	697*540mm
Load Bearing Capacity of Each Shelf	30KG
Power Source	
AC Supply Input	100-240V, 50-60Hz
Power Consumption	200W
Operating Environment	
Temperature	-20°C~60°C
Humidity	20%~85% (no condensation)
System	Android 5.1.1
Industrial Computer	RK3288/4 cores frequency 1.8Ghz
Programmable Controller	Domestic
Electric Control System	With Domestic PLC
Reader	Domestic (With Imported E710 chip)
Number of Tag Reading	200+pcs
Reading Efficiency	3~5 seconds

广州市白云区云城街萧岗花园路10号之一228创意园G栋301室

Rm 301, Bldg G, 228 Creative Park, 10-1 Xiaogang Garden Rd, Yuncheng Str, Baiyun Dist, Guangzhou, Guangdong, China

Web: www.rovinj.cn Email: sales@rovinj.cn Tel: 020-26298802

Reading Mode	Motionless
Screen	10.1-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