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IOT Application Expert**

Products



RFID Smart Tool Cabinet Product Specification

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1. Product Introduction

RFID Smart Tool Cabinet is one of the Rovinj's self-developed RFID tool management solutions. The tool 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 tools with RFID labels inside the cabinet. The user scans the IC card to unlock the door → borrow/return the tools → close the door to automatically confirm the operation. The system will show the user's information, tool details, lending time and other information. There are also daily/monthly checking and other functions, which can help collect the quantity, types and status of tools in real time, realizing efficient and intelligent management of tools.

Industry Application: It is mainly used in aviation, electric power, fire protection, machinery, railway and other industries, realizing automated and fast borrowing, returning, positioning, searching and maintenance of tools.

2. Picture



ROV-R506 RFID Smart Tool Cabinet

3. Product Features

*Safety: The tool cabinet can be equipped with a humidity controller (optional). If the tool does not reach the standard, the tool will be locked and cannot be taken out from the tool cabinet so that the accident can be avoided from the source.

*Informatization: The tools will be checked in real time, and the parameters of each tool will be recorded, making the tool life period visible.

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

* Efficient: 「Automated + informatization」 replaces the traditional manual work. The computer realizes automatic data acquisition, which greatly saves labor costs and improves work efficiency.

*Intelligent: If the tool is not returned in time, the system will automatically alert, create a report and send to the relevant person in charge. And if a tool is lost, it can be manually searched with the help of RFID handheld terminal.

*Real Time Monitoring: The system realizes the function of remote real-time monitoring, including the inventory status of tools, borrowing/returning time, the date for next checking, etc. And the data can be monitored on the web page in real time.

4. Efficiency

1. 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.

2. When a tool is lost, it takes 10-20 minutes on average to find it manually. The RFID intelligent tool management system costs only 3-5 minutes by using the RFID handheld terminal, increasing the management efficiency by more than five times.

5. Specifications

Main Specifications	
Model	ROV-R506
Overall	
Weight	About 100kg
Size (height * width * depth)	1955*1100*600 (mm)
Enclosure Material	Spray-paint Carbon Steel
Shelves	
Number of Shelves	5
Height	380mm (Adjustable)
Size (width * depth)	1000*550mm
Load Bearing Capacity of Each Shelf	50KG
Power Source	
AC Supply Input	100-240V, 50-60Hz
Power Consumption	12W
Operating Environment	
Humidity	20%~85% (non-condensation)

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Temperature	-20°C~60°C
System	Android 14.0
Industrial Computer	RK3576/quad-core Cortex-A72+quad-core Cortex-A53, up to 2.2GHz
Programmable Controller	Domestic
Electric Control System	With Domestic PLC
Reader	Domestic (Imported E710 chip)
Number of Tag Reading	200+pcs
Reading Efficiency	3~5 seconds
Reading Mode	Motionless
Screen	10.1-inch capacitive screen 1280*800 (16:9)
RAM	4G
Storage	32G
Communication	TCP/IP, WIFI, 4G (optional)
Shielding Distance	20~30CM
Opening Speed	1 second
Efficiency	Manual