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IOT Application Expert

Products



## RFID Smart Toolbox Product Specification

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## 1. Product Introduction

The RFID Smart Tool Box is one of the Rovinj's self-developed RFID tool management system solutions. With RFID technology, it enables the automated management of the RFID-tagged tools which are stored in the drawers. It can greatly improve the accuracy and efficiency of tool management, and has realized the informatization management of tools and the fine control of FOD in aviation industry. The main functions include tool box initialization, tool lending/returning record, daily/monthly checking, etc.

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

## 2. Picture



ROV-R508 RFID Smart Toolbox

### 3. Product Features

- Fully Automated Management: Fully automated tool lending and returning record management, has simplified the processes and eliminating mistakes of manual scanning and logging. Quick! Accurate! And the system can create various reports.
- One-touch Inventory: Finish daily/ monthly checking can be finished within 3 seconds.
- Data Acquisition and Scientific Analysis: Data logging of tool parameters. Calibration period reminding for specific tools.
- Security: If the tools are not returned in time, the tool trolley will alert and quickly lock on the relevant person.
- Lost Tool Searching: When the tool is left on the plane, it can be further searched with the RFID handheld terminal.
- Convenient and Intelligent: Equipped with the rechargeable battery, it can be used as a mobile line-side tool cabinet.

### 4. Efficiency

1. The inventory efficiency is increased by more than 10 times. Suppose the manual inventory costs 5-10 minutes, then the automated inventory with RFID intelligent tool 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 RFID handheld terminal, increasing the management efficiency by more than five times.

### 5. Specifications

Main Specifications	
Model	ROV-R508
Weight	30KG
Size (Height*Width*Depth)	450*520*350mm
Drawer Number	4
Drawer Width	430mm
Drawer Depth	280mm
Drawer Height	Drawer 1-3: 45mm Bottom Drawer: 60mm
Load Bearing Capacity of Each Drawer	5KG

Enclosure Material	Spray-paint Carbon Steel
Power Source	
Voltage	12V
Battery	8000mAh
Power	30W
Operating Environment	
Temperature	-20°C~60°C
Humidity	20%~85% (Non-condensation)
System	Android 5.1.1
Industrial Computer	K7G20/4 core frequency 1.6Ghz
Reader	Domestic (With Imported E710 Chip)
Reading Efficiency	3~5 seconds
Number of Tag Reading	100+pcs
Reading Mode	Motionless
Screen	7-inch Capacitive Screen
RAM	2G
Storage	8G
Communication	WIFI、4G
Shielding Distance	20~30CM