



**Dedication, Integrity, Innovation, Win-win
IOT Application Expert**

Products



RFID Smart Tool Trolley Product Specification

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1. Product Introduction

RFID Smart Tool Trolley 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 trolley 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



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-R505
Overall (8 drawers)	
Weight	About 160KG
Size (height * width * depth)	1470*900*640 (mm) After the PC folded: 1200*900*640(mm)
Enclosure Material	Spray-paint Carbon Steel
Drawer (8 drawers)	
Single Drawer Size	698*518mm (width*depth)
Upper Drawer Spacing	Drawer 1-7(inner height): 50mm
Lower Drawer spacing	Drawer 8(inner height): 100mm
Load Bearing Capacity Per Drawer	40KG
Power Source	
AC Supply Input	100-240V, 50-60 Hz
Power Consumption	12W
Backup battery voltage	24V
Battery Capacity	7AH
Operating Environment	
Humidity	20%~85% (Non-condensation)
Temperature	-20°C~60°C
System	Android 14.0
Industrial Computer	RK3576/quad-core Cortex-A72+quad-core Cortex-A53, up to

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	2.2GHz
Programmable Controller	Domestic
Electric Control System	With Domestic PLC
Screen	10-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
Reader	Imported (Impinj-R420)
Number of Tag Reading	400+pcs
Reading Efficiency	3~5 seconds
Reading Mode	Motionless