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Products



# RFID Smart Toolbox Product Specification

Guangzhou Rovinj Mdt InfoTech Co.,Ltd

## 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-R507 RFID Smart Toolbox

## 3. Product Features

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

- 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-R507
Weight	About 11KG
Size (height * width * depth)	300*520*240mm
Number of Drawers	3
Drawer Width	440mm
Drawer Depth	190mm
Load Bearing Capacity of Each Drawer	5KG
Enclosure Material	Spray-paint Carbon Steel
Power Source	
Voltage	12V
Battery	6300 mA
Power	30W

Operating Environment	
Humidity	20%~85% (non condensation)
Temperature	-20°C~60°C
System	Android 4.4.2
Industrial Computer	Y5G15/4 cores Frequency 1.2Ghz
Reader	Domestic (Imported E710 chip)
Reading Efficiency	3~5 Seconds
Number of Tag Reading	100+pcs
Reading Mode	Motionless
Screen	5-inch Capacitive Screen
RAM	1G
Storage	8G
Communication	WIFI、4G
Shielding Distance	20~30CM
Opening Speed	Manual
Efficiency	Manual