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Products



## RFID Smart Hazardous Chemicals Cabinet Product Specification

Guangzhou Rovinj Mdt InfoTech Co.,Ltd

## 1. Product Introduction

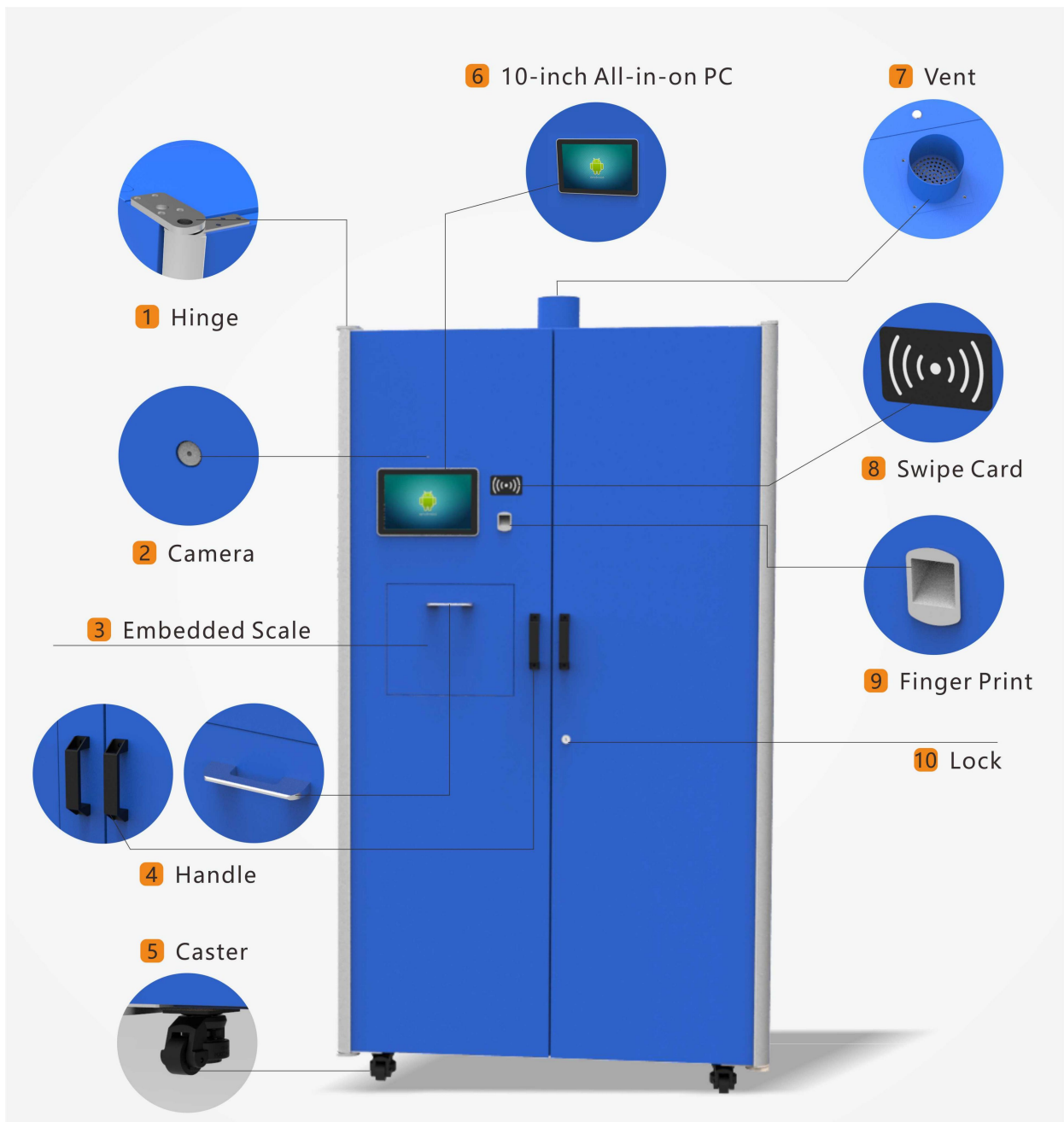
Rovinj Smart Hazardous Chemicals Cabinet is specially designed for hazardous chemicals management in medical, education, chemistry and other industries. RFID technology effectively solves the shortages of traditional manual management, realizing 24-hour unattended management. User can borrow the chemicals at any time, and the system will automatically record his operation. People without authority cannot get the chemicals from the cabinet, which prevents many irregular operations such as passing off as other person to borrow the chemicals. Administrators can authorize remotely and check the hazardous chemicals status as well as borrower's information in real time. With weighing system, we can also get the information of the chemicals' weight, etc. There are several kinds of sensors integrated in the cabinet to make the whole system run smoothly.

RFID smart hazardous chemicals 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 chemicals with RFID tags inside the cabinet. There are also daily/monthly checking and other functions, which can help collect the data of quantity, types and status of chemicals in real time, realizing efficient and intelligent management of chemicals.

**Instruction:** The user unlocks the cabinet by his IC card → take/put chemicals → close the door to automatically confirm the record. The screen will show the chemicals details, borrowing/returning time and other information.

**Industry Application:** It is mainly used in hazardous chemicals management in medical, education, chemistry and other industries.

**More Usage:** It can also be used as smart medical consumables cabinet, reagent cabinet, tool cabinet, file cabinet, explosion-proof cabinet, safety cabinet, laboratory cabinet, etc. It is customizable, with wide application



## 2. Hardware Features

- ❖ The cabinet is made of 1.2mm double-layer cold-rolled steel sheet, which weighed over 200kg.
- ❖ The inner is made of corrosion-proof full package PP material, which is certificated by third party appraisal agency.
- ❖ The cabinet has grounding anti-static measures, strictly in accordance with OSHA standard.
- ❖ There is a pressure relief opening on both sides of the cabinet.
- ❖ The air vent is at the top of the cabinet (fan exhaust). It can be connected with VOC sensor to automatically drive the fan to exhaust.
- ❖ Cabinet Size: 1100\*620\*1900mm, large capacity space.

## 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](http://www.rovinj.cn) Email: [sales@rovinj.cn](mailto:sales@rovinj.cn) Tel: 020-26298802

- ❖ Informationized: System can check the chemicals in real time, and record the information of each chemicals.
- ❖ Automated: Greatly simplifies the processes of scanning, inventory, and logging, enabling fast and batch management.
- ❖ Safe and Controllable: The cabinet is integrated with humiture monitoring system, which will sound an alarm when reaching the limit value, ensuring the safety of hazardous chemicals storage environment.
- ❖ Weighing System: When the chemical is returned, the cabinet will weigh and compare with the last weight, recording the chemicals consumption. The weighing accuracy is optional.
- ❖ Multiple Authentications: Supports swiping card, finger print and facial recognition.
- ❖ Real Time Monitoring: The smart reagent cabinet system can realize 24-hour unattended management of hazardous chemicals. Users can borrow the chemicals after being authorized and the system will automatically generate records.
- ❖ Open Data: Data can be output in the background system according to the specific requirement, and can be docked with other management system of client's.

### 3. Efficiency

The inventory efficiency is increased by more than 10 times. The original manual inventory costs 5-10 minutes, while the automatic inventory with RFID intelligent management system costs only 3-5 seconds.

### 4. Specification

Main Specifications	
Model	ROV-R516
Overall	
Weight	About 200KG
Size (height * width * depth)	1100*620*1900 (mm)
Enclosure Material	Spray-paint Carbon Steel
Trays	
Number of Trays	5 (Adjustable)
Size (Length*Width)	997*542.9mm
Thickness	10mm
Load Bearing of Each Tray	30KG
Power Source	
Voltage	220VAC (±10%) 50±3HZ
Power	50W
Operating Environment	
Temperature	-20°C~60°C
Humidity	20%~85% (non-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
Reading Mode	Motionless
Screen	10-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