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IOT Application Expert

Products
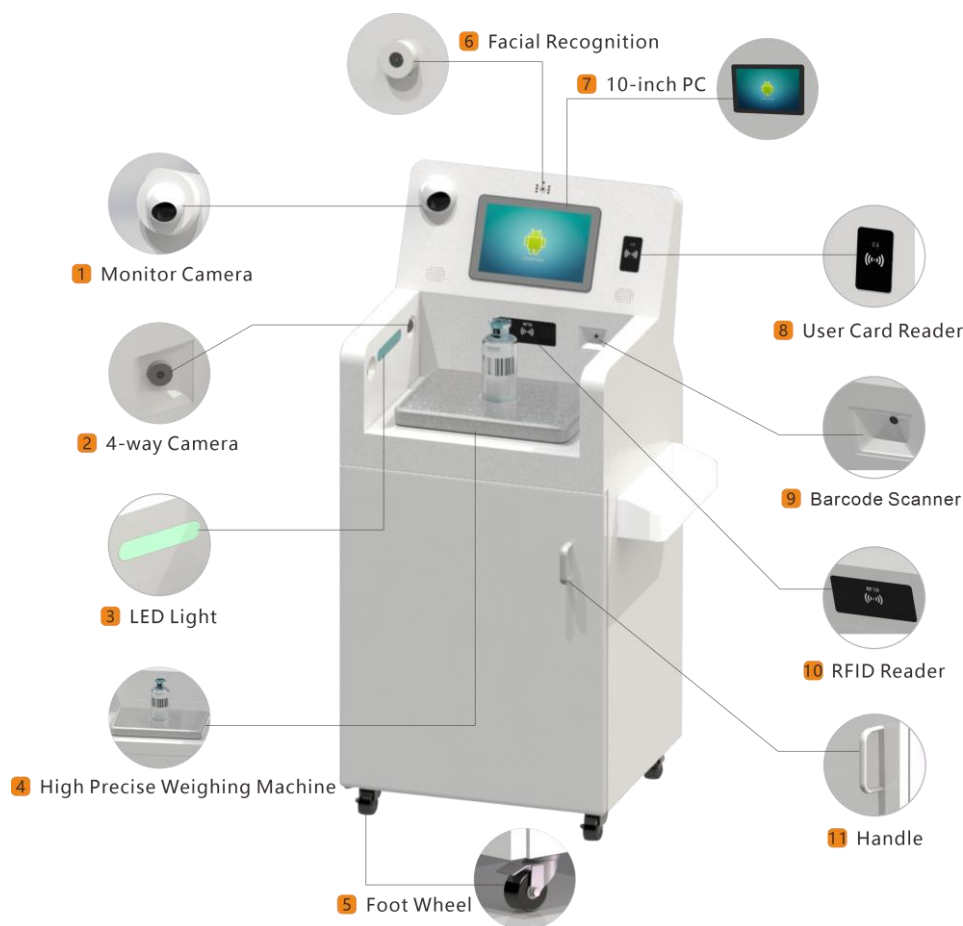
RFID Smart Weighing Platform Product Specification

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1. Product Introduction

ROV-R530 RFID Smart Weighing Platform is independently designed by Rovinj. It is mainly for weighing chemical reagents, RFID tag initialization, and fast tag reading. The smart platform integrates with RFID technology and high precision weighing module. The user can login the weighing system by IC card, facial recognition, etc. After putting the reagent on the platform, the system will automatically compare with the last weight to evaluate how much reagent has been used. The data will associate with the corresponding user, realizing safe and automated reagent management.

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

2. Product Picture

6 Facial Recognition
7 10-inch PC
1 Monitor Camera
2 4-way Camera
3 LED Light
4 High Precise Weighing Machine
5 Foot Wheel
8 User Card Reader
9 Barcode Scanner
10 RFID Reader
11 Handle

3. Product Features

❖ Automated：When returning the reagent, the platform will automatically compare with the last weighing information to evaluate the reagent consumption.

❖ Informationized：The weighing information will be uploaded in real time, and administrator can query reagent users as well as reagent consumption in the background system at any time.

❖ High Precise：The weighing precise is optional basing on the actual requirement.

❖ Multiple Login：User can login the weighing system by IC card, facial recognition, finger print, etc.

❖ Real Time Monitoring：The weighing platform is equipped with monitor camera, realizing 24-hour unattended management.

❖ Strong Adaptability：Smart LED light makes the platform adapt to various environment.

❖ Opening Data：The operating data can be exported according to the user's requirement, which is convenient to upload data to other management systems.

4. Specification

Main Specifications	
Model	ROV-R530
Overall	
Weight	About 65KG
Total Size (Width*Depth*Height)	550*530*1343（mm）
Enclosure Material	Spray-paint Carbon Steel
Power Source	
AC Supply Input	100-240V, 50-60 Hz
Power Consumption:	12W
Backup battery voltage	12V
Battery Capacity	14AH
Operating Environment	
Temperature	-20℃～60℃
Humidity	20%~85%（non-condensation）
System	Android 5.1.1
Industrial Computer	RK3288/4 cores Frequency 1.8Ghz
Reader	RFID all-in-one device
Number of Tag Reading	single
Reading Efficiency	Within 1 second
Reading Mode	Motionless
Screen	10-inch capacitive screen 1280*800（16:9）
RAM	2G
Storage	8G
Communication	TCP/IP、WIFI、4G
Camera	1 Monitor Camera 4-way AI Camera

High Precise Weighing Module	Standard: 3 kg weighing range (0.01g precision)	
LED Light	2 Lights	