Rovinj

Dedication, Integrity, Innovation, Win-win

IOT Application Expert

Products

RFID Tray-type Tunnel Machine Product Specification

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1. Product Introduction

The ROV-SC401 series is an industrial-grade RFID acquisition tunnel, which is independently designed and developed by our company. It takes Radio Frequency Identification Technology as the core and combines mechanical design, multiple sensors, electromagnetic shielding, automated control and other technologies. It completely solves the problems such as tag miss-reading or reading the wrong tag in the supply chain, meeting the requirement of high efficiency and accuracy of product circulation. What's more, the tunnel combines the warehouse management system to completely overcome the shortcomings of barcode management, truly realizing the SKU automated management. And it also saves labor costs and greatly improves work efficiency.

Industry Application: The tunnel is mainly used for SKU identification, such as warehouse management of fashion, leather goods and luggage, alcohol, electric power, the comparison of SKU tag and box label, product inventory, etc.

2. Picture

ROV-SC401 RFID Tray-type Tunnel Machine

3. Product Features

■ High identification efficiency: It can read 800+pcs of tags at a time within 3 seconds;

■ Professional antenna RF reflection design fully solves the problems of dead angel and tag miss-reading ;

■ Compact electromagnetic shielding and radio frequency optimization can eliminate the harm of RF radiation to the human body, and the tag reading accuracy reaches 100% (Depends on the reading environment and performance of tags);

■ The design of automatic double rolling shutters can realize automated identification for field applications without manual intervention;

■ Imported or domestic RFID readers can be chosen to meet the needs of different users. And we support customers to develop secondary software.

4. Specification

Main Specifications	
Air Interface Protocol	EPC Global Class1 Gen2/ISO 18000-6C
RFID Frequency	902.75MHz~927.25MHz, channel spacing 500kHz
RFID Frequency Mode	Fixed Frequency / Frequency Hopping, 10 Frequency Hopping Points
Reader	Imported (Impinj-R420)
Reader Output Power	16~31±1dBm
Number of Tag Reading	800+pcs
Reading Efficiency	Within 3 seconds
Reading Mode	Motionless
Operating Mode	Interval T cycle / Continuous Operation / External Trigger
Screen	18-inch resistive touch (Embedded Type or Boom Type)
Programmable Controller	Imported

Electric Control System	With Domestic PLC
Industrial Computer	I5/4GB
Antenna	4 Groups of 8dbi Antennas
Photoelectric Switch	2 Groups/Imported
Load Capacity	Unlimited
Opening speed	1.2 seconds
Efficiency	Manual
Physical Environment	
Model Code	ROV-SC401
Overall Size (mm)	2130ength) × 1500 (width) × 2360 (height)
Internal Size (mm)	1800 (length) × 1160 (width) × 1830 (height)
Maximum Passable Size(mm)	1800 (length) × 1050 (width) × 1800 (height)
Automatic Rolling Shutter	Self-weight
Weighing Module	Optional
Total Weight	About 650KG
Operating Temperature	-20℃ – 60℃
Storage Temperature	-10℃~60℃
Operating Humidity	20 – 95% (Non-condensing)
Work Voltage	220VAC（±10%）50±3HZ
Power	200W
Enclosure Material	Spray-paint Carbon Steel
Shielding Performance	10~30CM