

Product Datasheet

SK-RDP100H Facial Recognition Door Plate



Product model	Description
SK-RDP100H	Product Name: Facial Recognition Door Plate Screen: Dual-Camera Facial Recognition Door Plate: Customizable Logo and Room Number Button:Doorbell Function Display: Check in, Please wait, Don' t disturb, Please Clean

◆ Product Overview

Our self-developed intelligent facial recognition door plate system, featuring a unique hardware-based facial recognition algorithm, demonstrates complete independent intellectual property. The system supports two efficient methods for facial information collection: real-time capture via a front desk HD camera, or static recognition by directly uploading pre-taken photos. Once collected, the information is immediately synchronized to the terminal facial recognition door plate. The entire recognition process is extremely fast, completing within two seconds. Notably, the system incorporates infrared liveness detection technology, which can accurately distinguish non-live objects such as photos or images on a phone screen, ensuring a high level of security and accuracy.

◆ Product Features

- **Integrated Innovative Design:** Combines the door plate with the facial recognition system for efficient and convenient access control management.
- **Watchdog Anti-Freeze Technology:** Built-in hardware watchdog circuit ensures stable device operation and prevents system crashes due to unexpected issues.
- **Laser-Engraved Door Plate:** Uses laser-engraved acrylic material, which is not only aesthetically pleasing and durable but also supports customized logos and room numbers to meet diverse needs.
- **Dual-Camera Technology:** Equipped with dual cameras to enhance the security and accuracy of facial recognition, providing higher assurance for access control.
- **Infrared & LED Dual Fill Light:** Combines infrared and LED fill lights to ensure clear and accurate facial recognition under various lighting conditions.
- **7-inch HD Large Screen:** Features a 7-inch high-definition screen, which is not only visually impressive but also convenient for displaying various information and enabling multi-functional applications.
- **Doorbell Interface Function:** Provides 1 dry contact output for easy integration with a doorbell, allowing doorbell calls via the panel button.
- **Facial Recognition Unlocking:** Includes 1 open-collector I/O output for interfacing with door lock systems, enabling quick unlocking via facial recognition and improving access efficiency.

- **Room Control Integration:** 4 dry contact inputs support seamless integration with the Room Control Unit (RCU), enabling panel indication for Occupied, Wait, Do Not Disturb, and Clean Request statuses.
- **Networked Management:** Utilizes 1 RJ45 Ethernet port to support real-time information exchange with the RCU, front desk, and remote management systems, enhancing management efficiency.

◆ Performance Parameters

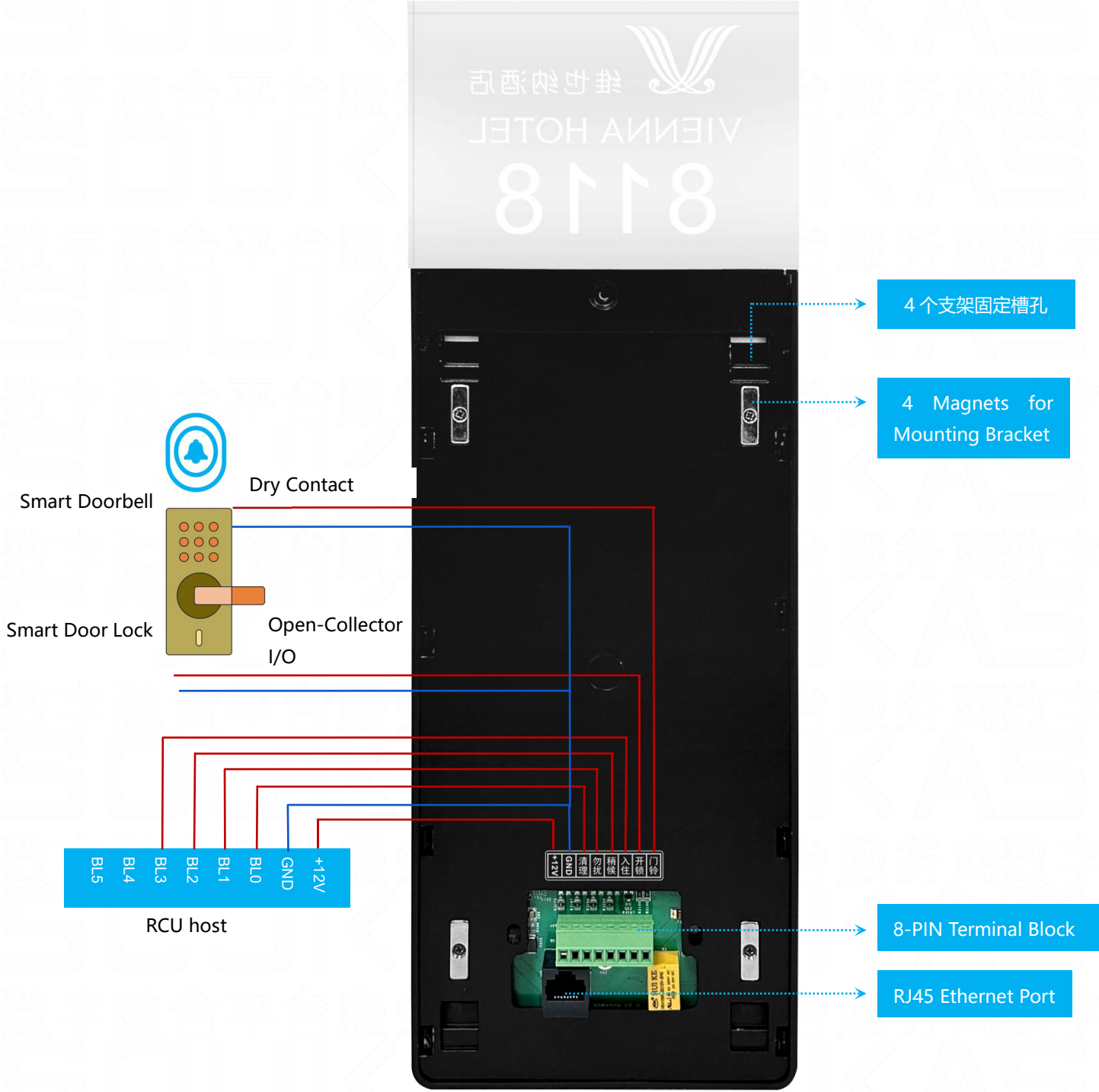
Processor parameters		
CPU Performance	32-bit RISC CPU 1.0GHz, integrated FPU	
NPU Performance	NPU @ 0.8 TOPS Neural Network Acceleration Engine	
Memory	Built-in 2Gb DDR3L	
eMMC	8GB	
Display screen parameters		
LCD Type	TFT	
Viewing Angle	Full Viewing Angle	
Screen Size	7-inch	
Backlight Type	3*6 chips white LED	
Resolution	1024（RGB）*600	
Dual Camera parameters		
CMOS Sensor	1/4.5 sensor/RGB	1/4.5 sensor /IR
Max Resolution	1280(H) x 720(V)	1280(H) x 720(V)
Sensor Pixel Size	2.72um*2.72um	2.72um*2.72um
Low Illumination	≤0.15Lux/F2.4	≤0.5Lux/F2.4
Signal-to-Noise Ratio (SNR)	38dB	38dB
Dynamic Range	82dB	82dB
FOV（Field of View）	70.7 degrees	76.9 degrees
Aperture	F2.2	F2.0
Focal Length	3.2mm	2.85mm
Distortion	TV Distortion<1.5%	TV Distortion<1.5%
Lens Temp Range	-20°/+60°	-20°/+60°
Lens Structure	4P+650IR	4P+850IR
Infrared Lamp（IR）	850nm * 6, Power: 5V / 110mA ±10%	

Interface parameters	
Network Interface	1 x 100M Ethernet port (RJ45)
Doorbell Interface	1 x Dry Contact Output
Door Lock Interface	1 x Open-Collector I/O Output
RCU Interface	4 x Dry Contact Inputs for seamless RCU integration
Door Plate Indicator Interface	Controls the ON/OFF state of the door plate indicator
Power Interface	12V 1A power input interface
Physical parameter	
Device Dimensions	(L*W*H) 368mm * 128mm * 31mm
Package Dimensions	(L*W*H) 412mm * 165mm * 50mm
Operating Temp. & Humidity	-10°C-45°C、40%-70%
Storage Temp. & Humidity	-40°C-70°C、40%-95%
Weight	Net: 1 kg, Gross: ~1.2 kg
Installation Method	Wall-mounted

◆ Front Panel Description



◆ Rear Panel Description



◆ Mounting Bracket Description

