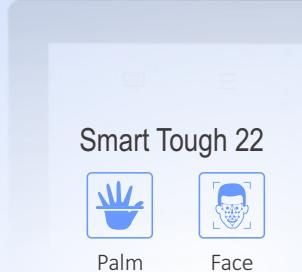
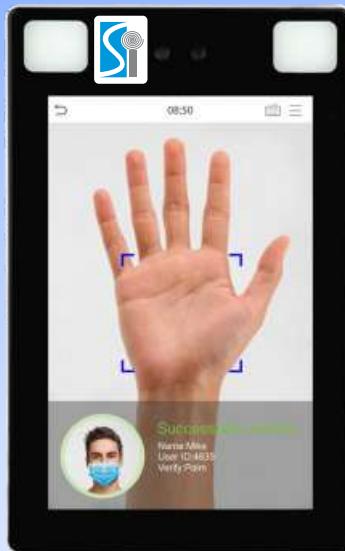


SMART TOUGH 22



Smart Tough 22 is a fully upgraded version of the Jaguar face product line, which is designed to deal with all kinds of scenarios. Powered by the Smart Tough series-customized CPU for running the intellectualized engineering facial recognition algorithm and the latest computer vision technology, the Smart Tough 22 supports both facial and palm verification with large capacity and rapid recognition speed, boosting the security performance in all aspects.

Smart Tough 22 also helps eliminate hygiene concerns; not only because of the contactless recognition technology it is equipped with, but also because of the masked individual identification.

In addition, the 3-in-1 palm recognition (Palm Shape, Palm Print and Palm Vein) is performed in 0.35 sec per hand; the palm data acquired will be compared with a maximum of 5,000 palm templates.

As mentioned above, the Smart Tough 22 can assist in reducing the risk of infection and germs spreading during the recent global public health issue as well. It enables masked individual identification during facial and palm verification at all access points, especially in hospitals, factories, schools, commercial buildings, airports, stations, and other public areas.

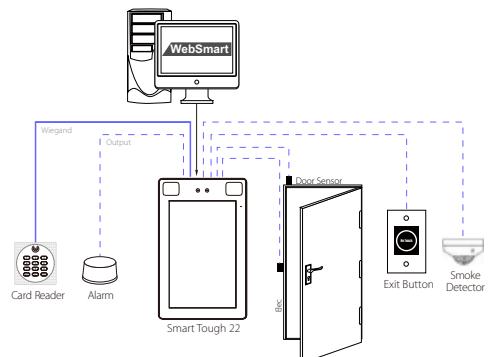
Features

- Ultra-large capacity of facial templates for 1:N verification: 30,000 (standard); max. 50,000 (optional)
- Huge capacity of palm templates; 1:N - 5,000 palm templates
- Anti-spoofing algorithm against print attack (laser, color and B/W photos), videos attack, and 3D mask attack
- Intelligent energy-saving design; precisely evaluation of the distance (up to 2.5m (8.2ft)) between the user and the device by a microwave detector before waking up the recognition terminal
- 2MP starlight CMOS sensor camera with WDR function, which enables the terminal to recognize faces under extreme lighting conditions (0.5 lux – 50,000 lux)
- 8" touch screen with 400 lux, which offers high visibility under strong and direct light
- IP68 dust-proof and waterproof standard & IK04 protection standard
- Wide range of working temperature (-30 ~ 60°C; -22 ~ 140°F)
- Mask detection; facial verification available with masks

Specifications

Capacity	Access Control Interface	Communication
Faces	30,000 (1:N) 50,000 (Optional)	Lock Relay Output Alarm Output / Auxiliary Input Exit Button / Door Sensor
Palm	5,000 (1:N)	TCP/IP Wiegand Input / Output Wi-Fi (Optional)
Users / Cards	50,000	RS485 / RS232
Transactions	1,000,000 2,000,000 (Optional)	
User Photos	30,000	
Event Photos	10,000	
Compatibility	Special Functions	Additional Info
Security Relay Box Wiegand / RS485 / RS232 Slave Reader with FP / RFID / Barc ode / QR-code Websmart Software	IP68 & IK04 0.3s Hight Speed Facial Verification Liveness Detection HTTPS Communication Encryption (Optional) Event Snapshot	Face Algorithm: SmartFace Palm: FAR ≤0.01%; FRR ≤1% Working Temperature: -30°C ~ 60°C, (-22°F ~ 140°F) Working Humidity: ≤93% Storage Temperature: -40°C ~ 65°C (-40°F ~ 149°F) Storage Humidity: ≤93% Net Weight: 853g Dimensions (HxLxD): 227X143X26.1mm
Standard Functions:	Hardware	Power
Access Levels, Groups, Holidays, DST, Duress Mode (Password), Anti-Passback, Record Query, Tamper Switch Alarm, Custom Wallpaper & Screen Saver	900MHz Dual Core Customized Computer vision CPU 512MB RAM / 8G Flash 8" Hight light (400lux) IPS Touch LCD 125KHz EM Reader / 13.56MHz RFID S50/S70 IC Card 2MP WDR Low Light Camera Adjustable Light brightness LED Hi-Fi Voice High Sensitivity Microphone Distance Detection Sensor Reset Button and Tamper Switch	Operating Voltage: 12V DC Current Draw: < 2,000mA

Configuration



Dimensions (mm)

