

## Turnstile Reader & System

The Professional Entry Touchless Solution



Facial



Palm Vein



Access Card



Scramble QR

## Highlights

- ACX Turnstile Reader provides an open platform for 3rd party integration of Lift Destination Control and ACX Visitor Management System
- Support Smart Card, Mobile Virtual Card (Scramble QR Code and Bluetooth), Facial, and Palm Vein
- Upon detecting the user's identity, the LCD will display the lift ID
- Thermal Camera can be embedded into the turnstile to measure body temperature



125KHz/  
13.56MHz



Scramble  
QR Code



Facial  
Recognition



Palm Vein

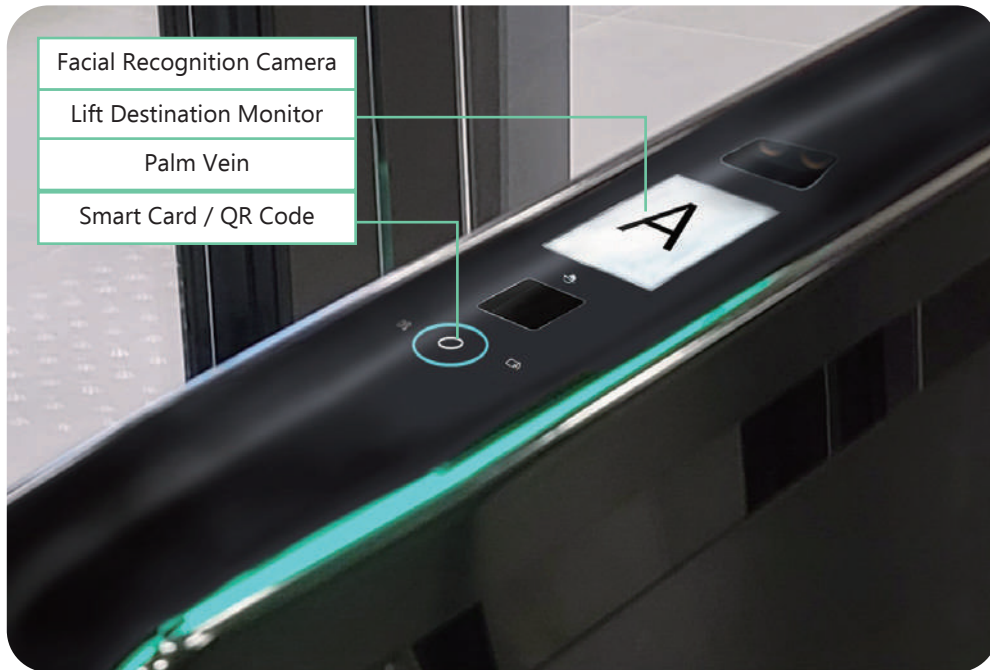
## Features

- Human Biometric
  - Face Recognition Technology by SenseTime / Face++, single / dual camera
  - Palm Vein Technology by Fujitsu PalmSecure-F Pro
- Mobile Virtual Card
  - QR Code scanner, 4cm to 22cm read range
  - Work with ACX Virtual Card App
  - QR code changes in every second
  - Visitor can use printed QR code or mobile QR code as temporary pass
- Smart Card
  - 13.56Mhz Card technology includes NXP, LEGIC, HID iCLASS, HK Octopus
  - 125Kz Card technology includes EM & HID
- RED / Green / Blue or mixed color reader LED for visual notification, reader buzzer for audio notification
- Reader outputs in Wiegand and ACX proprietary random encryption RS485 format
- Work with ACX Controllers

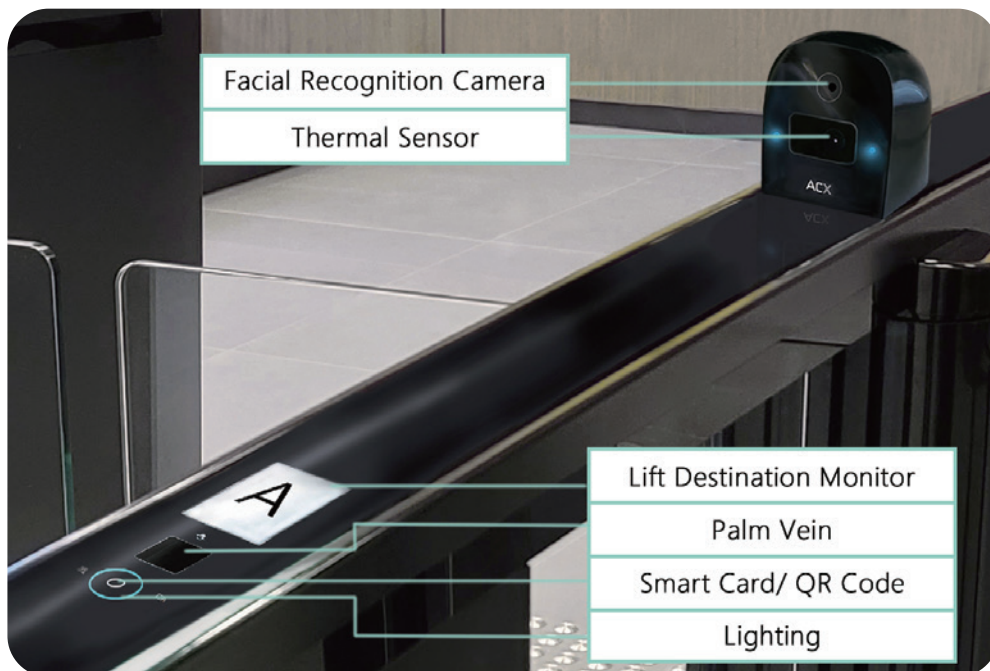
# Turnstile Reader

- Basic : Smart Card, QR Code (Fixed / Scramble)
- Add-on : Facial, Palm Vein, Lift Destination, Thermal Camera, Visitor Management System

Without Thermal Camera



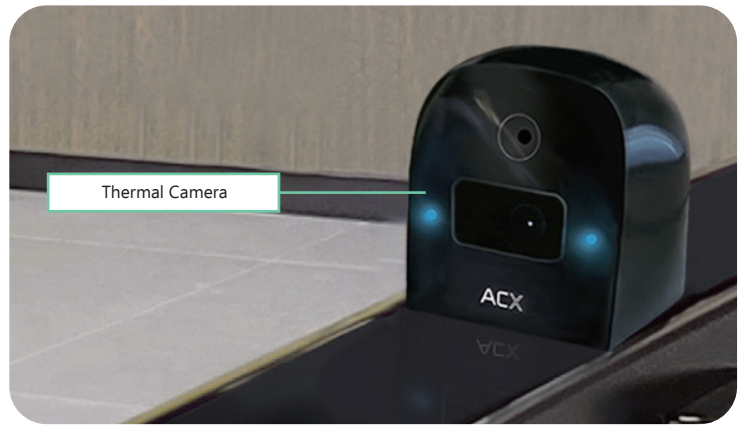
With Thermal Camera



# Covid-19 Solution

ACX 2088 is a middle range Thermal Camera with an effective scan range of 3 meters. Black body is already built in the camera, leading to an increase in the accuracy level ( $\pm 0.3^{\circ}\text{C}$ ). The camera is designed with a tiny and streamlined enclosure.

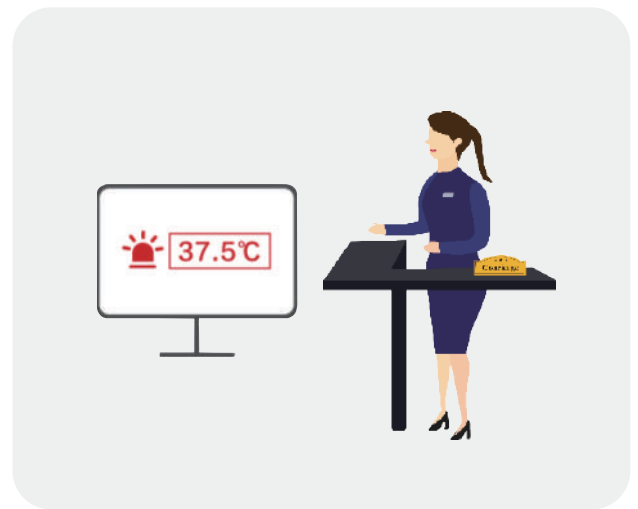
It can automatically check whether people are wearing masks and at normal temperature without physical contact. The whole process is fast and efficient, which takes only 1 second.



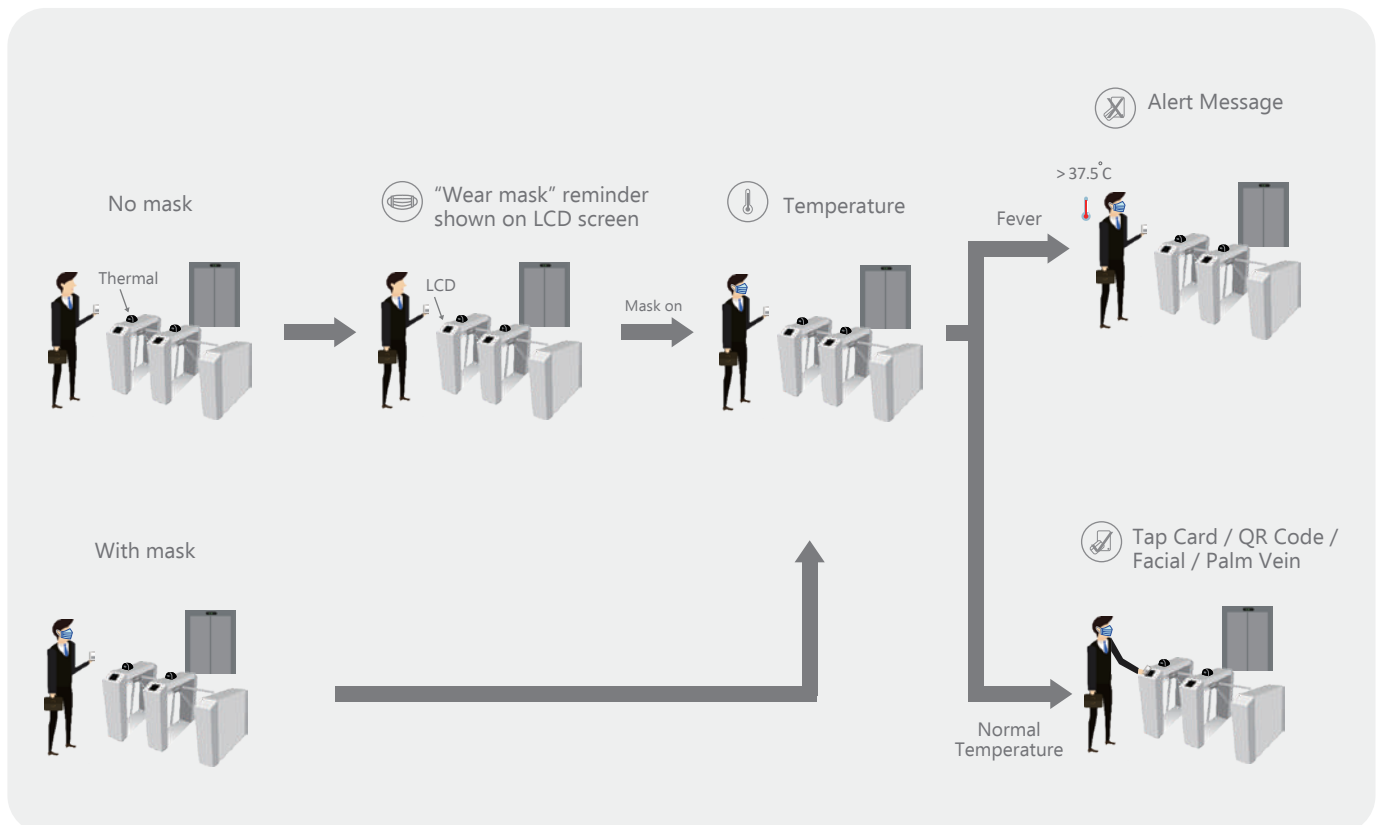
## Operation Flow



Auto Mask and Temperature Check



Real-time Monitoring at Front Desk



# Specifications

Facial Recognition	SenseTime / Face++ (single / dual camera)
Palm Vein Technology	Fujitsu PalmSecure-F Pro
Card Technology	<ul style="list-style-type: none"><li>- 125KHz: EM, HID</li><li>- 13.56MHz NFC for Android and iOS mobile phone</li><li>- 13.56MHz : MIFARE, LEGIC, HID iCLASS, HK Octopus</li></ul>
QR Code Min. Resolution	5 mil, 1 mil = 0.0254mm
QR Code Resolution	640 x 480
QR Code Scanning Angle	±60° for left & right, 40° for front and back 360° rotation
RF Technology	13.56MHz
Typical Read Range	<ul style="list-style-type: none"><li>- Facial Recognition : 1 to 1.5 meters, Palm Vein : 30mm to 70mm on top of the sensor, QR : 4cm to 22cm</li><li>- 125KHz ISO card : 5cm+, 13.56MHz ISO card : 4cm+</li><li>- Typical read range achieved in air; different types of metal will cause some degradation</li><li>- Use spacers to space product off metal and improve read range if required</li></ul>
Visual Indicator	Ready mode : Blue ; Access granted : Green ; Access denied : Red
Audio Indicator	Internal buzzer, user-defined beep sound ON / OFF time interval (ms)
Dimension	210mm x 78mm x 40mm
Weight	800g
Operating Voltage	9 - 16 VDC, Linear supply recommended
Operating Current	700mA AVG, 1000mA PEAK
Operating Temperature	- 13° to 131° F (-25° to 55° C)
Storage Temperature	-67° to 158° F (-55° to 70° C)
Operating Humidity	5% to 90% relative humidity non-condensing
Housing Material	Surface : Glass
Controller	12VDC,2A Input, 1 x 8 PIN port , 1 x HDMI Port, 2 x LAN

**ACX**

[www.acxhk.com](http://www.acxhk.com)