

## 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 Visitor Management System
- Support Smart Card, Mobile Virtual Card (Scramble QR Code), Facial, and Palm Vein
- Upon detecting the user's identity, the LCD will display the lift destination ID
- Thermal Camera can be embedded into the turnstile to measure body temperature



125KHz/  
13.56MHz



Scramble  
QR Code



Facial  
Recognition



Palm Vein

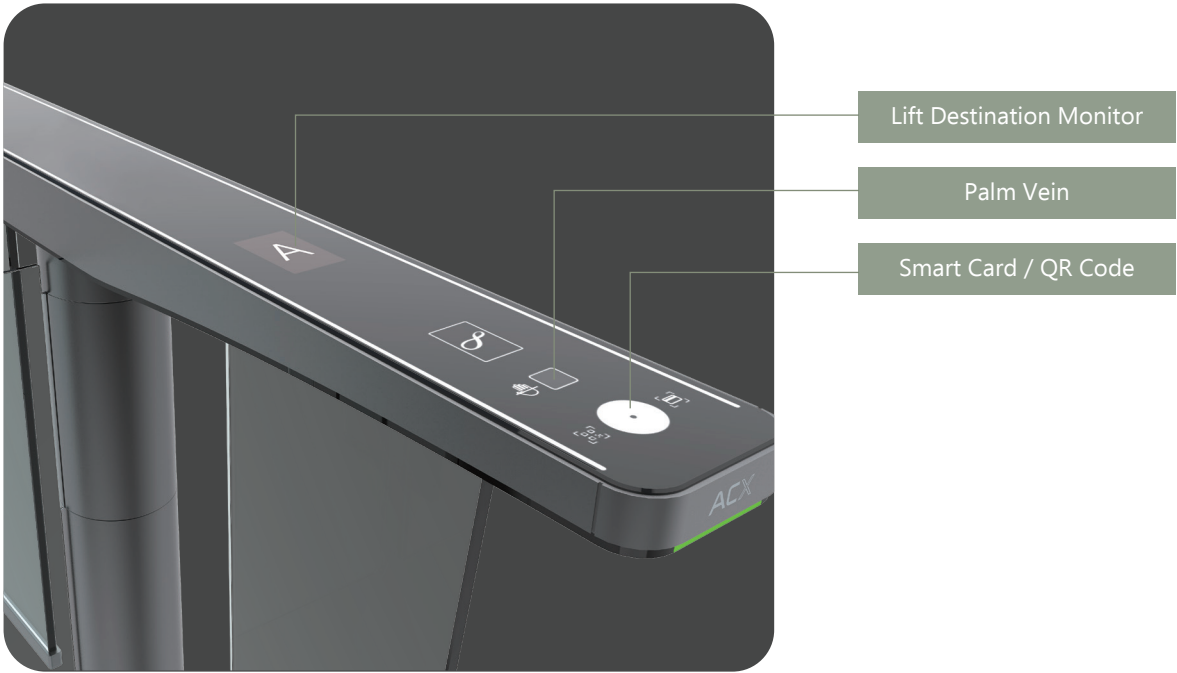
## Features

- 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

Regular



With Facial/ Facial + Thermal Camera



# Covid-19 Solution

ACX 2098 is a middle range Thermal Camera with an effective scan range of 3 meters. Black body is already built in the camera which lead to an increase in the accuracy level ( $\pm 0.3^{\circ}\text{C}$ ). The camera was designed with a tiny and streamlined enclosure without any display. It can automatically check whether passengers are wearing mask and having normal temperature without physical contact. The whole process is fast and efficient which just takes 1 second for 10,000 users. After checking, passengers can access with facial recognition technology.

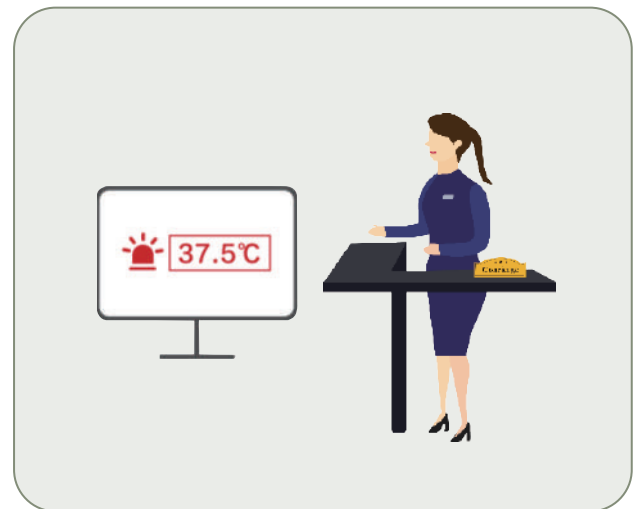


The 2098 also has the rear facial camera, it can solve the lighting problem which the facial camera installed underneath the turnstile glass cover.

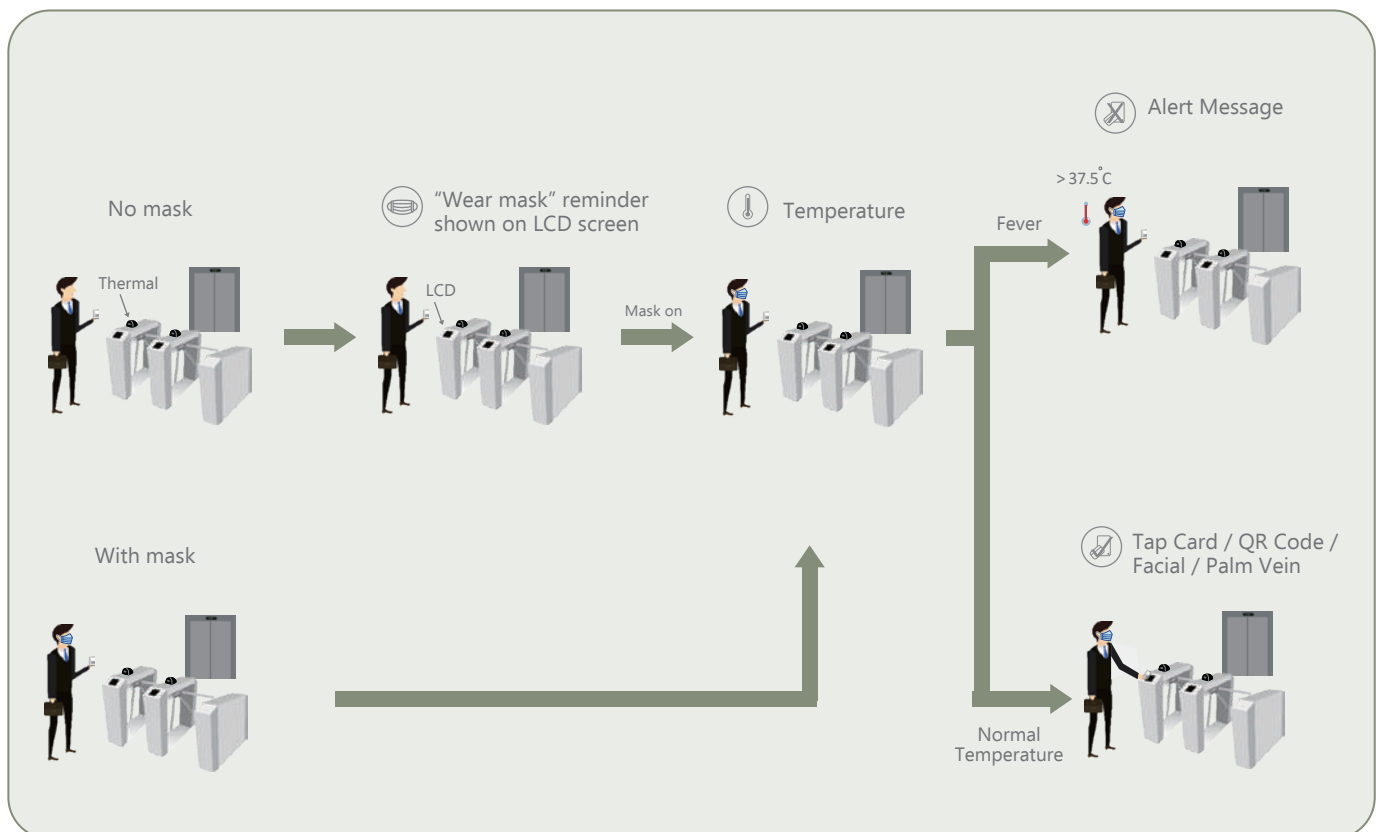
## Operation Flow



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 top of the sensor, QR:4cmt022cm</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



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