

Q1 is a convenient and safe industrial-grade visual face recognition multi-technologies card reader. Based on the latest deep learning face recognition algorithm, Q1 can realize personal identity verification, personnel entry and exit management and attendance management.

It is widely used in office buildings, parks, schools, stations, enterprises, governments and scenic spots. Common scenarios such as museums help to realize intelligent safety management and control. The system supports binocular infrared live detection, which is a new generation of intelligent authentication means.

The 13.56MHz contactless smart card suitable for the traditional staff access card.

The embedded Bluetooth technology can read the encrypted virtual credential from Android phone and iPhone.

The QR Code scanner can read the scramble QR code as a virtual credential number from Android phone and iPhone.

The Q1 reader has wiegand, OSDP and the ACX scramble encryption output which suitable for different security level applications.

KEY FEATURES

- Face recognition can be completed in 300 milliseconds
- The recognition accuracy rate is higher than 99%, and 0.5m-1.5m recognition is supported
- Supports 20,000 local personnel
- Real-time detection and tracking of human faces, accurate detection can be carried out in situations such as side faces, half occlusion, and blur
- Minimum 0.5 lux recognition, no fill light design, no glare, high user comfort, low requirements for light environment
- Effective defense against non-living attacks such as 3D printing, electronic screens, videos, pictures, masks, and hoods
- QR Code scanner with backlight, 4cm to 22cm read range
- 2.4GHz Bluetooth 4.0+ works with ACX mobile apps
- 13.56Mhz Card technology includes LEGIC, Mifare and HID iCLASS
- RED / Green / Blue or mixed color reader LED for visual notification, reader buzzer for audio notification
- User defined reader's visual and audio notification for access granted and access denied
Reader outputs Wiegand, OSDP or the ACX scramble encryption format



SPECIFICATION

Q1 multi-technologies Facial Recognition Reader				
Face Recognition Algorithm	SENSETIME / FACE ++			
Face detection	Live face detection Speed time, 1:20,000 less than 1 second			
Bluetooth	2.4GHz Bluetooth 4.0			
Card Technology	HID iCLASS	HID 125KHz	EM	Mifare Classic 1K/4K
Card number output	1 ~ 64 bits CSN ; HID card number	HID card number	1 ~ 40 bits CSN	1 ~ 56 bits CSN ; Custom data models
Item No. (RF / RF+BLE)	Q111 / Q1T1	Q112 / Q1T2	Q113 / Q1T3	Q114 / Q1T4
Card Technology	SONY Felica CSN	Mifare Plus S/X	Mifare DESFire EV1/EV2	LEGIC Prime / Advant
Card number output	1 ~ 64 bits CSN	1 ~ 56 bits ; Custom data models	1 ~ 56 bits ; Custom data models	1 ~ 64 bits CSN ; Custom data models
Item No. (RF / RF+BLE)	Q115 / Q1T5	Q116 / Q1T6	Q117 / Q1T7	Q118 / Q1T8
Card Technology	13.56MHz Custom data model - LEGIC Prime and Advant, Mifare Classic, Mifare Plus, Mifare DESFire EV1 / EV2 13.56Mhz CSN of Mifare Classic, Mifare Plus, Mifare DESFire EV1 / EV2, SONY Felica & PicoPass			
Reader output	ACX Proprietary scramble RS485 output, max. 64 bits card number output. OSDP V1 & V2.			
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			
QR Code scanning range	4cm to 22cm			
Typical Read Range	Bluetooth Technology : 0.5m to 10m, 13.56MHz ISO card : 3cm to 8cm, 125KHz ISO card : 6cm~10cm Typical read range achieved in air; different types of metal will cause some degradation Use spacers to space product off metal and improve read range if required.			
I am alive	User define 1 bytes "I am alive" data in a certain interval			
Reader cable	CAT 6 and RS485 (4 wires) cable			
Mounting	Wall Switch Size; designed to mount and cover single gang switch boxes primarily used in the Americas and includes a slotted mounting plate for European and Asian back box spacing			
Visual indicator	Circle Ring LED in RED / Green / Blue / Amber / Purple / White / Light Purple color, user defined LED ON / OFF time interval			
Audio indicator	Internal buzzer, user defined beep sound ON / OFF time interval (ms)			
Color	Silver			
Dimension	248mm(H) x 96mm(W) x 22mm(D)			
Product weight	960g			
Operating Voltage	Power supply 12VDC (17W) or PoE (20W) for Facial Reader. 9-16 VDC for ACX QR BLE reader, Linear supply recommended			
Operating Current	ACX QR + BLE + Card reader - 200mA AVG, 800mA PEAK			
Operating Temperature	- 31° to 150° F (-35° to 65° C)			
Storage Temperature	-67° to 185° F (-55° to 85° C)			
Operating Humidity	5% to 95% relative humidity non-condensing			
Housing Material	Shell material Aluminum Alloy			
Cable Distance	RS485 interface: 4000 feet (1200m) CAT 6 : 333 feet (100m) Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent			