

Q1 is an industrial-grade visual face recognition multi-technology card reader that offers both convenience and safety. Powered by the latest deep learning face recognition algorithm, Q1 enables seamless identity verification, personnel entry and exit management, and attendance tracking.

It is widely used in office buildings, parks, schools, stations, enterprises, governments and scenic spots. In public places like a museum, it is especially an asset in intelligent safety management and control. With the support of binocular infrared live detection, a cutting-edge intelligent authentication feature, we ensure enhanced accuracy and reliability in identity verification.



- The 13.56MHz Contactless Smart Card technology supports any traditional staff access cards
- The embedded Bluetooth technology allows for reading encrypted virtual credential numbers from both Android and iPhone
- The QR Code scanner can also read the Scramble QR Code as a virtual credential number from Android and iPhone
- The output options of Q1 include Wiegand, OSDP, and the ACX scramble encryption, catering to diverse security level requirements

FEATURES

- Face recognition completed in 300 milliseconds
- Recognition accuracy rate over 99%, with 0.5m-1.5m recognition range
- Supports 20,000 local personnel
- Real-time detection and tracking of human faces. Detection remains accurate even in side faces, half-masked, and blurred
- Minimum 0.5 lux recognition, no fill light design, no glare, high user comfort, low requirements for light environment
- Effectively deny malpractice such as 3D printing, electronic screens, videos, pictures masks, and hoods
- QR code scanner with backlight, with 4cm-22cm read range
- 2.4GHz Bluetooth 4.0+ works with ACX mobile apps
- 13.56Mhz Card technologies include 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 notifications for access granted and access denied
- Reader outputs Wiegand, OSDP, or the ACX scramble encryption format

CARD TECHNOLOGY

Card Technology	Card Number Output	Item No. (RF / RF+BLE)
HID iCLASS	1 ~ 64 bits CSN ; HID card number	Q111 / Q1T1
HID 125 KHz	HID card number	Q112 / Q1T2
EM	1~40 bits CSN	Q113 / Q1T3
Mifare Classic 1K / 4K	1 ~ 56 bits CSN ; Custom data models	Q114 / Q1T4
SONY Felica CSN	1 ~ 64 bits CSN	Q115 / Q1T5
Mifare Plus S / X	1 ~ 56 bits ; Custom data models	Q116 / Q1T6
Mifare DESFire EV1 / EV2	1 ~ 56 bits ; Custom data models	Q117 / Q1T7
LEGIC Prime / Advant	1 ~ 64 bits CSN ; Custom data models	Q118 / Q1T8

SPECIFICATIONS

Q1 Multi-Tech Facial Recognition Reader	
Facial Recognition Algorithm	SENSETIME / FACE ++
Face Detection	Live face detection Speed time, 1:20,000 less than 1 second
Bluetooth	2.4 GHz Bluetooth 4.0
Reader Output	ACX proprietary scramble RS485 output, max. 64bits 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	125 KHz ISO card : 6cm~10cm , 13.56 MHz ISO card : 3cm to 8cm, Bluetooth Technology : 2m to 10m 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-defined 1 byte "I Am Alive" data at 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. It includes a slotted mounting plate for European and Asian back box spacing
Visual Indicator	LED circle ring in Red / Green / Blue / Amber / Purple / White / Light Purple, user-defined LED ON / OFF time interval
Audio Indicator	Internal buzzer, user-defined beep sound ON / OFF time interval (ms)
Color	Black
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