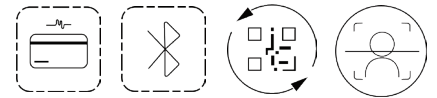


**X5** multi-technology reader supports Facial Recognition, Palm Vein, Bluetooth, QR code and various kinds of contactless smart card technologies. Its design is perfect for true contactless and accurate cross-platform applications, from smart cards to mobile devices.

X5 facial and palm vein recognition reader has live face detection, with less than 1 second fast response time for 50,000 users.

X5 reader is suitable for indoor installation. It is made of high-quality materials to enhance reliability and longevity. The reader output options include Wiegand and scrambled encryption, catering to diverse security level requirements. The embedded Bluetooth technology as well as the QR code scanner also allow for reading encrypted virtual credential numbers from both Android and iPhone devices.



## FEATURES

- Totally 50,000 templates for Facial and/or Palm Vein
- Face and/or palm vein liveness detection, less than 1 second (1:N) for 50,000 users
- QR code scanner with backlight, 4 cm to 22 cm read range
- Read the scrambled QR code using by ACX mobile app for the Access Control System
- Read the fixed / Scramble QR code on mobile or label for the Visitor Management System
- 2.4 GHz Bluetooth 4.0+ works with ACX mobile apps
- 13.56 MHz card technology includes LEGIC Prime and Advant, MIFARE Classic, MIFARE Plus, MIFARE DESFire, SONY FeliCa, and PicoPass Secure data or the card serial number.
- Red / Green / Blue or mixed LED color for visual notification, reader buzzer for audio notification
- User-defined reader visual and audio notification for access granted and access denied
- Optical sensor for tamper protection, "I Am Alive" feature
- Reader outputs the ACX proprietary scrambled encryption format.
- The reader can connect to the ACX 2062 gateway, the gateway can outputs Wiegand / OSDP V1/V2.
- Waterproof IP55

## CARD TECHNOLOGY

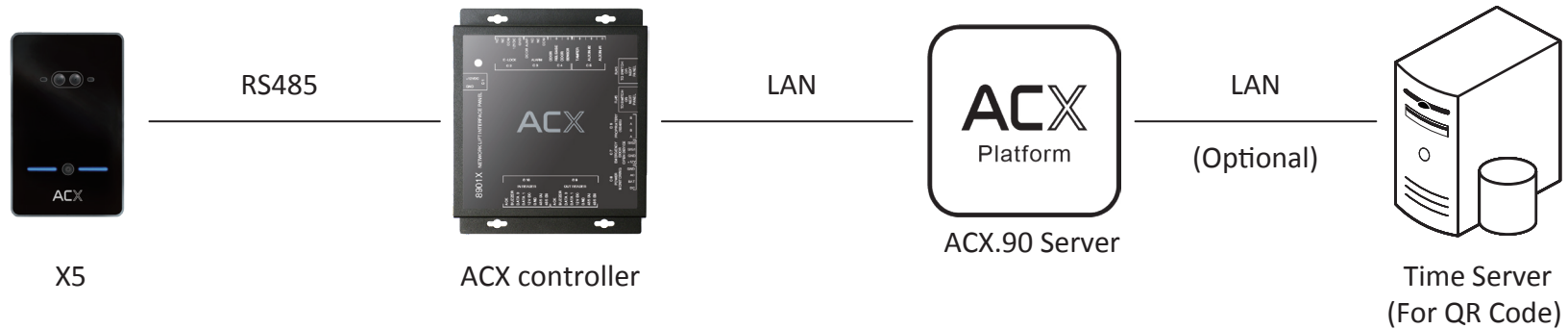
Card Technology	Card Number Output	Item No. ( RF / RF+BLE )
HID iCLASS	1 ~ 64 bits CSN ; HID card number	X511 / X5T1
HID 125 KHz	HID card number	X512 / X5T2
EM	1 ~ 40 bits CSN	X513 / X5T3
Mifare Classic 1K / 4K	1 ~ 56 bits CSN ; custom data models	X514 / X5T4
SONY FeliCa	1 ~ 64 bits CSN	X515 / X5T5
Mifare Plus S / X	1 ~ 56 bits ; Custom data models	X516 / X5T6
Mifare DESFire EV1 / EV2	1 ~ 56 bits ; Custom data models	X517 / X5T7
LEGIC Prime / Advant	1 ~ 64 bits ; Custom data models	X518 / X5T8

## SPECIFICATIONS

<b>X5 Facial Recognition Bluetooth QR Code Card Multi-Tech Reader</b>	
Face and Palm Vein Recognition Algorithm	Face+ +
Templates	Totally 50,000 templates for Facial and/or Palm Vein
Face Detection	Face scan range: 50cm to 150cm. Live face detection speed time, 1:50,000 in less than 1 second
Palm Vein Detection	Palm Vein scan range: 3cm to 12cm. Live palm vein detection speed time, 1:50,000 in less than 1 second
Bluetooth	2.4 GHz Bluetooth 4.0
Reader Output	ACX proprietary format, max. 64 bits card number output
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 & back, 360° rotation
QR Code Scanning Range	4cm to 22cm
Typical Read Range	Bluetooth Technology : 0.5m to 10m, 13.56 MHz ISO card : max. 6cm, 125 KHz ISO card : ,ax. 8cm Typical read range achieved in air; different types of metal will cause some degradation; Use spacers to space products 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	Twisted pair 4 wires cable.
Mounting	Wall switch size, designed to mount and cover single-gang switch boxes (Americas). Includes a slotted mounting plate for European and Asian back box spacing.
Visual Indicator	LED line 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 or White
Dimension	80mm x 130mm x 20mm
Product Weight	200g
Operating Voltage	9–16 VDC, linear supply recommended
Operating Current	700 mA AVG, 800 mA 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	Polycarbonate
Cable Distance	RS485 interface: 4000 feet (1200m). Recommended cable is ALPHA 1295 (22 AWG) 5-conductor minimum stranded with overall shield or equivalent.

## ACX X5 multi-technologies reader wiring diagram

### For ACX access controller



### For 3<sup>rd</sup> party access controller

