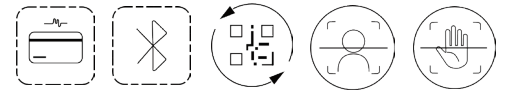# ACX | DESIGN INNOVATIONS

X9

multi-technology reader support Palm Vein, QR code, Facial Recognition, Bluetooth 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.

X9 reader is suitable for indoor installation, it is made of high-quality materials to enhanced reliability and longevity. Its Facial Recognition has live face detection function, with the response time of less than 1 second for 5,000 users.

The reader's output options include Wiegand and scramble 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

- 13.56Mhz Card technology includes LEGIC Prime and Advant, CSN for Mifare Classic, Mifare Plus, Mifare DESFire, SONY Felica, and PicoPass
- Red / Green / Blue or mixed LED color for visual notification, reader buzzer for audio notification
- User-defined reader's visual and audio notification for access granted and access denied
- "I Am Alive" feature
- Reader outputs Wiegand and ACX proprietary scramble Wiegand, OSDP, and ACX encryption RS485 format
- Reader LAN cable for clock synchronisation and Visitor Management System (API provided)

CARD TECHNOLOGY

Card Technology	Card Number Output	Item No.
HID iCLASS	1 ~ 64 bits CSN ; HID card number	X9T1
HIP 125 KHz	HID card number	X9T2
EM	1 ~ 40 bits CSN	X9T3
Mifare Classic 1K / 4K	1 ~ 56 bits CSN ; Custom data models	X9T4
SONY Felica CSN	1 ~ 64 bits CSN	X9T5
Miface Plus S / X	1 ~ 56 bits ; Custom data models	X9T6
Mifare DESFire EV1 / EV2	1 ~ 56 bits ; Custom data models	X9T7
LEGIC Prime / Advant	1 ~ 64 bits ; Custom data models	X9T8

SPECIFICATIONS

X9 Facial Recognition Palm Vein Bluetooth QR Code Contactless Smart Card Milti-Technology Reader	
Palm Vein Sensor	Fujitsu Palmsecure-F Pro, 133 format
FAR / FRR	FAR : 0.00001%, FRR : 1% (no retry)
Palm Vein Controller	Work with ACX Palm Vein Controller
Face Recognition Algorithm	SenseTime
Face Recognition Controller	Work with ACX Facial Recognition Controller
Face Detection	Live face detection speed time, 1:5000 less than 1 second
Bluetooth	2.4 GHz Bluetooth 4.0
Reader Output	ACX Proprietary scramble RS485 output, Wiegand and OSDP output. Max. 61 bits card number output
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, 13.56 MHz ISO card : 3cm~8cm, 125 KHz ISO card : 6cm~10cm
"I Am Alive"	User-defined 1 byte "I Am Alive" data at a certain interval
Reader Cable	2 x CAT 6 cable and R5485 twist pair shield cable
Mounting	Flush-mounted
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)
Colour	Black color or custom-made color
Dimension	184mm x 90mm Flush Mount, reader total thickness 40mm
Product Weight	500g
Operating Voltage	9 - 16 VDC, Linear supply recommended
Operating Current	1A 12VB DC
Operating Temperature	-31° to 150° F (-35° to 65° C)
Storage Temperature	- 67º to 185º F (-55º to 85º C)
Operating Humidity	5% to 95% relative humidity non-considering
Housing Material	Polycarbonate
Cable Distance	RS485 interface : 4000 feet (1200m), Wiegand interface (150m)