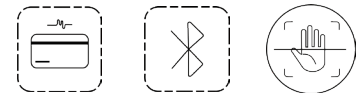


**K3** reader adopts Fujitsu PalmSecure technology and supports also Bluetooth and various Contactless Smart Card technologies, making it a perfect design for true-contactless and accurate cross-platform applications, from biometrics and Contactless Smart Card to mobile devices.

Fujitsu PalmSecure technology is a palm vein authentication solution that utilizes industry-leading vascular pattern biometric technology. The Fujitsu PalmSecure sensor uses near-infrared light to capture a person's palm vein pattern, generating a unique biometric template that is matched against his pre-registered palm vein biometric template.

ACX K3 reader is waterproof and made of high-quality materials to enhance reliability and longevity, hence suitable for both indoor and outdoor installations. Its output options include Wiegand and scramble encryption, catering to diverse security level requirements. The embedded Bluetooth technology also allows for reading encrypted virtual credential numbers from both Android and iPhone devices.



## FEATURES

- Fujitsu PalmSecure, Bluetooth, and Contactless Smart Card technology
- Optical sensor for tamper protection, "I Am Alive" feature
- Supports 125KHz, 13.56MHz ISO 14443 A, B & ISO15693, Bluetooth 4.0
- Red / Green / Blue or mixed color LED Circle Ring for visual notification
- User-defined reader's access granted/denied LED & buzzer ON / OFF times and interval
- Wiegand, OSDP standard, OSDP secure, and the ACX proprietary scramble encryption format
- Waterproof IP65

## CARD TECHNOLOGY

Card Technology	Card Number Output	Item No. ( RF / RF+BLE )
HID iCLASS	1 ~ 64 bits CSN ; HID card number	K311 / K3T1
HID 125 KHz	HID card number	K312 / K3T2
EM	1 ~ 40 bits CSN	K313 / K3T3
Mifare Classic 1K / 4K	1 ~ 56 bits CSN ; Custom data models	K314 / K3T4
SONY Felica CSN	1 ~ 64 bits CSN	K315 / K3T5
Mifare Plus S / X	1 ~ 56 bits ; Custom data models	K316 / K3T6
Mifare DESFire EV1 / EV2	1 ~ 56 bits ; Custom data models	K317 / K3T7
LEGIC Prime / Advant	1 ~ 64 bits CSN ; Custom data models	K318 / K3T8

## SPECIFICATION

<b>K3 Palm Vein Multi-Tech Reader</b>	
Palm Vein Sensor	Fujitsu PalmSecure-Pro F, I33-format
Palm Vein Controller	Work with ACX 8800 Palm Vein Controller or ACX 8813 Palm Vein Single Door Controller
F.A.R.	0.00001%
F.R.R.	1.0% (no retry, with I33 format)
Bluetooth	Bluetooth 4.0+, 2.4 GHz
Key Authentication	Custom 128 bits diversified key for custom data model on Mifare Classic, Mifare Plus, Mifare DESFire, LEGIC
Card Data Security	Max. 64 bits card number mixed with CSN, custom AES 128 bits key data encryption, CRC16. Apply for custom data models
Palm Vein Controller Output	Wiegand, OSDP standard, OSDP secure, and the ACX proprietary scramble encryption format
Typical Read Range	Palm Vein : 3.5cm to 7.0cm, 125KHz ISO card : 6cm+, 13.56MHz ISO card : 4cm+, Bluetooth Technology : 0.5m 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, applied for wiegand interface
Reader Cable	CAT 7 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 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 115mm x 20mm
Product Weight	130g
Operating Voltage	9-16 VDC, Linear supply recommended
Operating Current	120mA AVG, 150mA 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