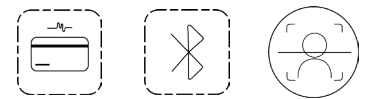


**K8** Facial Recognition reader supports Bluetooth technology. It is a perfect design for true-contactless and accurate cross-platform applications. ACX K8 Facial Recognition reader is able to detect if the face of the user is “alive”, with less than 1 second for 1,000 users fast response time.

The output options of K8 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

- Face liveness detection
- Less than 1 second (1:N) for 1000 users
- Support 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



8800 Palm Vein /  
Facial Recognition Panel

## CARD TECHNOLOGY

Card Technology	Card Number Output	Item No. ( RF / RF+BLE )
HID iCLASS	1 ~ 64 bits CSN ; HID card number	K811 / K8T1
HID 125 KHz	HID card number	K812 / K8T2
EM	1 ~ 40 bits CSN	K813 / K8T3
Mifare Classic 1K / 4K	1 ~ 56 bits CSN ;Custom data models	K814 / K8T4
SONY Felica CSN	1 ~ 64 bits CSN	K815 / K8T5
Mifare Plus S / X	1 ~ 56 bits ; Custom data models	K816 / K8T6
Mifare DESFire EV1 / EV2	1 ~ 56 bits ; Custom data models	K817 / K8T7
LEGIC Prime / Advant	1 ~ 64 bits CSN ; Custom data models	K818 / K8T8

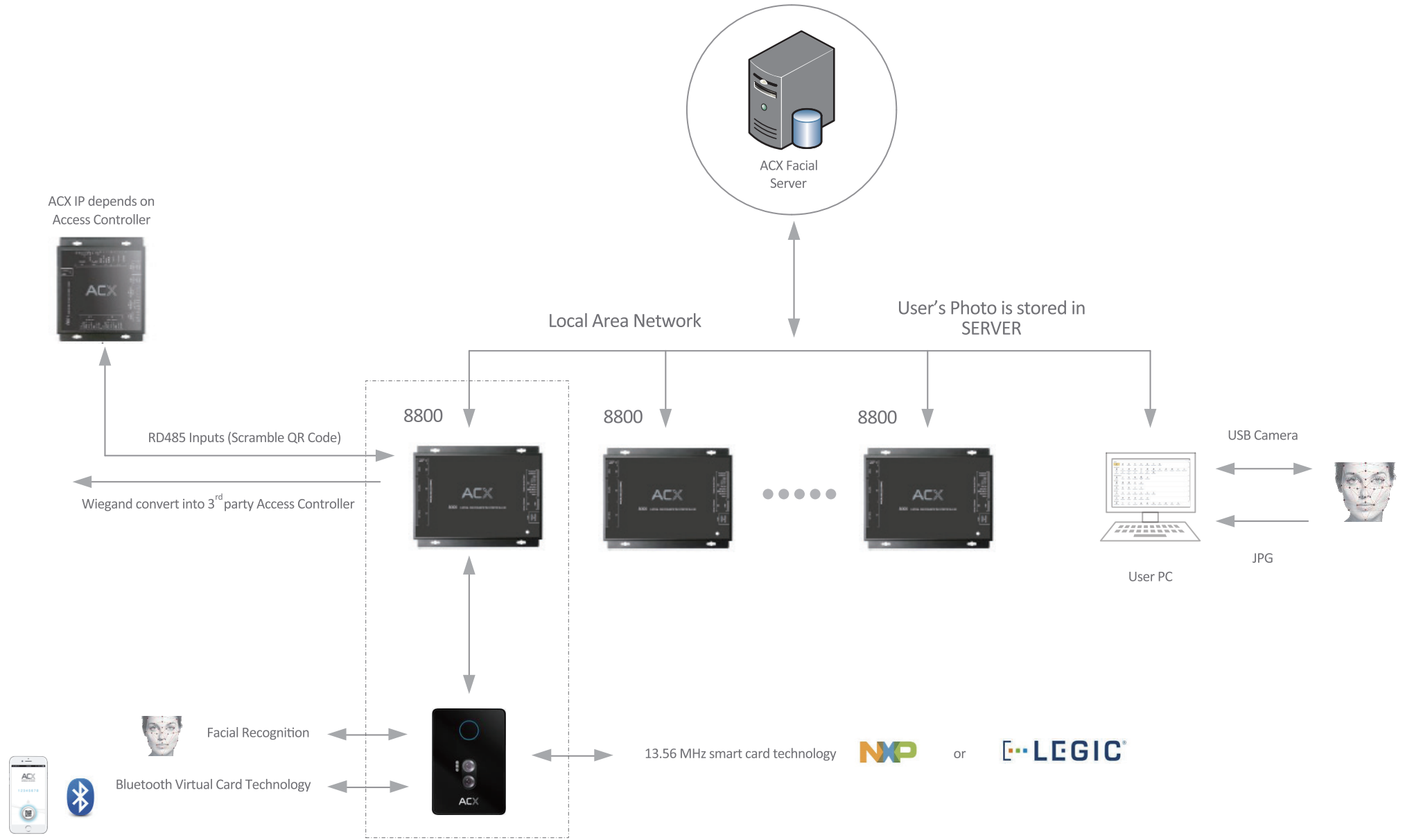
## SPECIFICATION

<b>K8</b> Face Recognition Multi-Tech Reader		
Facial Recognition Controller	Work with ACX 8800 Facial Recognition Controller	
Camera	1.3M B/W (Liveness)	3M WDR (Photo Capture)
Scanning System	Progressive Scan	Progressive Scan
Scanning Frequency (H)	30 Hz	25 Hz
Scanning Frequency (V)	50 Hz	50 Hz
Image Sensor	1 / 3" CMOS	1 / 3" CMOS
Effective Pixels	1280 x 960	2048 x 1536
Pixel Size	3.75um x 3.75um	2.2um x 2.2um
SNR Max	>44db	>40db
Dynamic Range	>80db	>100db
Min. Illumination	>0.01 Lux at F1.2	>0.01 Lux at F1.2
Power Consumption	NO LED (Max. 0.6W) ; IR-LED (Max. 2.0W)	NO LED (Max. 1.0W)
LED IR-850	<90 degree 500mm	No
Lens View	M12 / 85%	
Template Size	1640 bytes	
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 original CSN, custom AES 128 bits key data encryption, CRC16	
Facial Controller Output	Wiegand, OSDP standard, OSDP secure, and the ACX proprietary scramble encryption format	
Typical Read Range	Face detection range 1m ~ 2m, 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.	
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	

## SPECIFICATION

<b>K8 Face Recognition Multi-Tech Reader</b>	
Audio Indicator	Internal buzzer, user-defined beep sound ON / OFF time interval (ms)
Color	Black or White
Dimension	80mm x 115mm x 20mm (flush mounted)
Product Weight	500g
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
Cable Distance	Facial reader to Facial Recognition Controller (max. 8 meters CAT 7 cable) Facial Recognition Controller to door access controller Wiegand interface: 500 feet (150 m), RS485 interface: 4000 feet (1200 m) Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent
Reader Installation Height	It is recommended that the center of the card reader be 1.50 meters above the ground

# K8 Facial Recognition Multi-Tech Reader Schematic Diagram



ACX K8 Facial Recognition Multi-Tech Reader