

**V1** multi-technologies reader embedded Octopus, Bluetooth, QR code, it becomes a perfect design for true-contactless and high accuracy contactless smart card, mobile device cross-platform application.

Octopus reader has become one of the most widely adopted and cost-effective ways to enhance user convenience in Hong Kong. Breakthrough of the technology bottom neck - Interference between Multi-Technology in single reader, octopus technology have not only used in mono-technology reader, but also have already been successfully implied to multi-technology reader. An important step in making everyday life easier in Hong Kong's building access services.

Reader has wiegand and scramble encryption output which suitable for different security level applications.

Embedded Bluetooth technology can read the encrypted virtual credential number from Android phone and iPhone.

QR Code scanner can read the scramble QR code as a virtual credential number from Android phone and iPhone.



## KEY FEATURES

- QR Code scanner with backlight, 4cm to 22cm read range
- The reader can read the scramble QR code by ACX mobile APPS for access control system
- The reader can read the fixed QR code image by mobile or label for visitor management system
- The reader can read octopus card
- 2.4GHz Bluetooth 4.0+ works with ACX mobile apps
- RED / Green / Blue or mixed color reader LED for visual notification, reader buzzer for audio notification
- User defined reader's visual and audio notification for access granted and access denied
- Optical sensor for tamper protection, I am alive feature
- Reader outputs Wiegand and ACX proprietary scramble encryption RS485 format
- Reader LAN cable for clock synchronous and for visitor management system (API provided)

# Specification

V1 Bluetooth QR Code Octopus multi-technologies Reader	
Item No.	V1
Reader output	ACX Proprietary scramble RS485 output and wiegand output 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 and back, 360° rotation
QR Code scanning range	4cm to 22cm
Typical Read Range	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 define 1 bytes "I am alive" data in a certain interval
Reader cable	CAT 5 and Pigtail 10 wires
Mounting	Wall Switch Size; designed to mount and cover single gang switch boxes primarily used in the Americas and 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 color, 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	Flush Mounted: 196 mm x 94 mm x 6 mm
Product weight	500g
Operating Voltage	9-16 VDC, Linear supply recommended
Operating Current	150mA AVG, 120mA PEAK
Operating Temperature	- 13° to 131° F (-25° to 55° 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 (1200 m), Wiegand interface : 500 feet (150m) Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent