

**V1** multi-technology reader integrates Octopus, Bluetooth, and QR code technologies to provide a true contactless experience while ensuring high accuracy for Contactless Smart Card and mobile device applications.

Octopus has been widely regarded as one of the most cost-effective ways to enhance convenience in Hong Kong. Overcoming the technological challenge of embedding multiple technologies in a single reader, the Octopus technology has also been successfully applied to multi-technology readers. This breakthrough has significantly improved building access services in Hong Kong.

Its 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

- QR code scanner with backlight, with 4cm-22cm read range
- Read the scramble QR Code by ACX mobile apps for Access Control System
- Read the fixed QR code on mobile or label for Visitor Management System
- Read Octopus card
- 2.4GHz Bluetooth 4.0+ works with ACX mobile apps
- 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
- Optical sensor for tamper protection, "I Am Alive" feature
- Reader outputs Wiegand and ACX proprietary scramble encryption RS485 format
- Reader LAN cable for clock synchronisation and Visitor Management System (API provided)

## SPECIFICATIONS

### V1 Bluetooth QR Code Octopus Multi-Tech 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	4 cm to 22 cm
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-defined 1 byte "I Am Alive" data at 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. 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	Flush Mounted : 196mm x 94mm x 55mm
Product Weight	500g
Operating Voltage	9-16 VDC, Linear supply recommended
Operating Current	1.1A AVG, 1.3A PEAK
Operating Temperature	32° to 104° F ( 0° to 40° C)
Storage Temperature	32° to 131° F ( 0° to 55° C)
Operating Humidity	5% to 95% relative humidity non-condensing
Housing Material	Polycarbonate
Cable Distance	RS485 interface : 4000 feet (1200m) , Wiegand interface : 500 feet (150m) Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent