

idChamp A9 Specifications

PART NUMBER: A9-UHF

ELECTRICAL	
Communication Protocols	Industrial Micro USB interface, support USB 2.0 Tail plug support debugging serial port, support OTG
Data Interface	Bluetooth, USB
Power Source	micro- USB / rechargeable battery
Battery Type	Non-removable 3.8 V 4000+5200mAh li-ion rechargeable battery
Battery Performance	Continue to work: more than 16 hours (normally display on and scan once every 6 seconds and WLAN transmission) Dormancy standby: more than 700 hours (GPRS) online, offline (GPRS) is more than 800 hours
Audio	Built-in double speakers, built-in microphone, 3.5 mm stereo headset interface
Sensors	Acceleration sensor, light sensor, electronic compass, and gyroscope
PHYSICAL	
Dimensions (with trigger handle)	16.0 cm x 7.7 cm x 16.9 cm
Dimensions (with slimline grip)	16.0 cm x 7.7 cm x 9.7 cm
Weight	380 g / 13.4 oz
Casing	Black Lexan EXL9330 PC Yellow Lexan 943A PC
User Input	Trigger button
User Feedback	Speaker, vibration motor, LED
ENVIRONMENT	
Operating Temperature	-20°C to +50°C)

Charging Temperature	41°F to 104°F / 5°C to 40°C
Storage Temperature	-40°C to + 60°C (Battery included) -40°C to + 70°C (Battery excluded)
Humidity	5% to 95% non-condensing
Drop Specification	Multiple 4 ft./1.2m drops to concrete across the operating temperature range IP67
Tumble	1,000 1.64 ft./0.5 m tumbles (2,000 drops)
Electrostatic Discharge	±15kV Air discharge, ±8kV direct discharge
MIL-STD 810F	Meets and exceeds applicable MIL-STD 810F for drop, tumble and sealing
ANDROID	
CPU	Cortex-A53 Quad-Core 1.2GHz
Operating System	Android 5.1
RAM	2GB
ROM	16GB
Expansion Slot	Micro SD Card, 32GB SDHC compatible
Keypad	17 key / 22 crystal keys (backlight)
Display	4-inch size industrial grade low temperature resistant, IPS screen, capacitive, touchable, dual mode touch with or without a thick glove / with or without wet hand 800(H)×480(W) WVGA
RFID PERFORMANCE	
HF Standards Supported	ISO15693 ISO14443A/B (without encryption) ISO14443A (with encryption protocol) Support NFC protocol
HF Operating Frequency	HF frequency band 13.56 MHz
HF Read Distance	0-6 cm (ISO15693) 0-3 cm (ISO14443A/B) 0-1 cm (ISO14443B)
UHF Standards Supported	ISO-18000-6C EPC C1G2

UHF Operating Frequency	840-960 MHz (Depends on different countries/regions) 920-925 MHz is default
UHF Operating Mode	Broad-spectrum frequency hopping (FHSS) or Fixed frequency transmission
UHF Read / Write Range	0-500cm (Read) 0-300cm (Write)
UHF Multi-Tags Read	>100 pieces at the same time
BARCODE SCANNER	
Imager	Motorola SE4500 2D imager
Sensor Resolution	752 x 480 pixels
Field of View	Horizontal: 40°, Vertical: 25°
Focal Distance	SR: 8 in. DL: 5.3 in. HD: 2.9 in.
Aiming LED (VLD)	655 ±10 nm Laser
Illumination Element	625 ±5 nm LEDs (2x)
Min. Print Contrast	Minimum 25%
Symbologies Supported	1D: All major codes 2D: PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal Dutch Postal (KIX)
BLUETOOTH	
Bluetooth	Bluetooth Smart (BLE) 4.0
Bluetooth Class	Class 2
WLAN WiFi	
Protocol	IEEE 802.11a/b/g/n (2.4G/5G dual-frequency WIFI)
Frequency Range	Depending on the country (region), 2.4 GHz is 2.412GHz-2.472 GHz; 5 GHz is
Working Channels	CH1~CH13, CH34-CH140, CH149~CH165

Security	OPEN, WEP, WPA2-PSK (TKIP+AES) ,TLS,TTLS (MS-CHAP v2),TTLS (CHAP), TTLSMD5, TTLS-PAP,PEAP-TLS,PEAP(MS-CHAP v2) AES Etc.
Data Rate	802.11a: 6,9,12,18,24,36,48,54 Mbps 802.11b: 1, 2,5.5,11 Mbps 802.11g: 6,9,12,18,24,36,48,54 Mbps 802.11n: 6.5,13,19.5,26,39,52,58.5,65 Mbps (20 MHz,Long GI,800ns) 802.11n: 7.2,14.4,21.7,28.9,43.3,57.8,65,72.2Mbps (20 MHz,short GI,400ns)
Image Frame	60 fps
Antenna	Built-in antenna
COMPATIBILITY	
USB	Any USB host with FTDI VCP driver support (Windows, Linux, Mac, Android)
Bluetooth	Window, Mac, iOS, Android, Linux
WARRANTY	
Return Policy	30 days
Setup Support	30 days
Manufacturer Defect Warranty	1 year