



# AUTOID<sup>®</sup>9 SERIES HAND-HELD TERMINAL

## PRODUCT SPECIFICATION V3.4



JIANGSU SEUIC TECHNOLOGY CO., LTD

## 1. AUTOID<sup>®</sup>9 PERFORMANCE CHARACTERISTICS

<b>CPU</b>	Cortex-A7 Quad core 1.2GHz
<b>Operating System</b>	Android4.3 or Android4.4
<b>RAM</b>	1GB
<b>ROM</b>	4GB/8GB
<b>Expansion Slot</b>	Micro SD Card, 32GB SDHC compatible
<b>Interface/Communication</b>	Industrial Micro USB interface, support USB2.0 high speed, USB supports serial port (optional)
<b>Keypad</b>	17 key/22 key crystal button
	LED (backlight)
<b>Display</b>	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)
<b>Power</b>	Removable 3.8 V 4000mAh li-ion rechargeable battery, Built in 3.7V 60mAh li-ion backup battery
	Side interface: standard Micro USB, intelligent identification of PC and special charger
	Contact at the bottom of the tail plug interface: support for charging and USB 2.0 (use with Magnetic tail plug interface or base)
<b>Battery Performance</b>	Continue to work: more than 12 hours (normally display on and scan once every 6 seconds and WLAN transmission) RTC time: more than 168 hours (no main battery) Dormancy standby: more than 550 hours (GPRS) online, offline (GPRS) is greater than 600 hours
<b>Notification</b>	Sound, vibration, LED indicator light
<b>Audio</b>	Built-in double speakers, built-in microphone, the 3.5 mm stereo headset interface
<b>Sensor (optional)</b>	Acceleration sensor, light sensor, electronic compass and gyroscope
<b>Dimension</b>	156(H)×70(W)×22(T)mm (27mm at barcode engine)
<b>Weight (including standard battery)</b>	270g (Including battery depends on different configurations)
<b>Operating Temp</b>	-20°C to +50°C

<b>Storage Temp</b>	-20 °C to + 50 °C (Battery included) -20 °C to + 70 °C (Battery excluded)
<b>Humidity</b>	5% to 95% RH non-condensing
<b>Sealing</b>	IP67
<b>Drop Specification</b>	Multiple 5 ft./1.5m drops to concrete across the operating temperature range
<b>Tumble Specification</b>	1,000 1.64 ft./0.5 m tumbles (2,000 drops)
<b>ESD</b>	±15kV Air discharge, ±8kV direct discharge

## 2. AUTOID®9 DATA CAPTURE OPTIONS

Function 1	1D Laser Scan Engine (Option 1)
<b>Scan Accuracy</b>	4mil
<b>Rotate</b>	±35°
<b>Pitch Angle</b>	±65°
<b>Skew Tolerance</b>	±50°
<b>Ambient Light</b>	Sunlight: 10,000ft. Candles (107,640Lux)
	Artificiallight: 450ft. Candles (4,844Lux)
<b>Scan Depth</b>	15.2cm (4mil), 64.1cm (55mil)
<b>Scan Frequency</b>	104±12/sec
<b>Laser light Angle</b>	47°/35°
<b>Laser Safety Grade</b>	Class I
<b>Code Support</b>	UPC/EAN, POST, Code 128, Code 39, Code 93, Code 11, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSSI Etc.
Function 2	1D Laser Scan Engine (Option 2)
<b>Scan Accuracy</b>	5mil
<b>Rotate</b>	±35°
<b>Pitch Angle</b>	±65°
<b>Skew Tolerance</b>	±40°

<b>Ambient Light</b>	Sunlight: 10,000ft. Candles (107,640Lux)
	Artificiallight: 450ft. Candles (4,844Lux)
<b>Scan Depth</b>	25.4cm (10mil), 101.6cm (40mil)
<b>Scan Frequency</b>	104±12/sec
<b>Scan Width</b>	47°/35°/10°
<b>Laser Safety Grade</b>	Class II
<b>Code Support</b>	UPC/EAN, POST, Code 128, Code 39, Code 93, Code 11, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSSI Etc.
<b>Function 3</b>	<b>1D Laser Scan Engine (Option 3)</b>
<b>Scan Accuracy</b>	5mil
<b>Rotate</b>	±35°
<b>Pitch Angle</b>	±65°
<b>Skew Tolerance</b>	±50°
<b>Ambient Light</b>	Sunlight: 10,000ft. Candles (107,640Lux)
	Artificiallight: 450ft. Candles (4,844Lux)
<b>Scan Depth</b>	13.5cm (5mil), 91cm (55mil)
<b>Scan Frequency</b>	100±10/sec
<b>Scan Width</b>	47°
<b>Laser Safety Grade</b>	Class II
<b>Code Support</b>	UPC/EAN, POST, Code 128, Code 39, Code 93, Code 11, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSSI Etc.
<b>Function 4</b>	<b>1D Laser Scan Engine (Option 4)</b>
<b>Scan Accuracy</b>	4mil
<b>Ambient Light</b>	Sunlight: 10,000ft. Candles (107,640Lux)
	Artificiallight: 450ft. Candles (4,844Lux)
<b>Scan angle</b>	Standard: 48°±2°, optional: 35°±2°
<b>Rotate</b>	±35°

<b>Pitch Angle</b>	±50°
<b>Skew Tolerance</b>	±65°
<b>Laser Safety Grade</b>	Class II
<b>Scan Depth</b>	32.6cm (10mil), 80.6cm (40mil)
<b>Scan Frequency</b>	114±10/sec
<b>Minimum printing contrast</b>	20%
<b>Code Support</b>	UPC/EAN, POST, Code 128, Code 39, POST, Code 93, Code 11, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSSI Etc.
<b>Function 5</b>	<b>1D Laser Scan Engine (Option 5)</b>
<b>Scan Accuracy</b>	5mil
<b>Rotate</b>	± 35°
<b>Pitch Angle</b>	± 65°
<b>Skew Tolerance</b>	±50°
<b>Ambient Light</b>	Sunlight: 10,000ft. Candles (107,640Lux)
	Artificiallight: 450ft. Candles (4,844Lux)
<b>Scan Depth</b>	17.78cm (5mil), 66.04cm (15mil)
<b>Scan Frequency</b>	104 ± 12/sec
<b>Laser light Angle</b>	47°/35°/10°
<b>Laser Safety Grade</b>	Class I
<b>Code Support</b>	UPC/EAN, POST, Code 128, Code 39, Code 93, Code 11, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSSI Etc.
<b>Function 6</b>	<b>2D Image Scan Engine (Option 6)</b>
<b>Sensor Resolution</b>	752(H)×480(V)
<b>Rotate</b>	360°
<b>Pitch Angle</b>	±60°
<b>Skew Tolerance</b>	±60°

<b>VLD</b>	655nm±10nm
<b>LED</b>	635nm±5nm
<b>Ambient Light (Sunlight)</b>	9,000 ft. candles (96,900 lux)
<b>Optional model SR</b>	Offers the best range and performance on medium and low density 1D and 2D barcodes
<b>Optional model DL</b>	Optimized for medium to high density bar codes as well as the bar codes found on driver's licenses and other identification documents, ideal for border crossings as well as the healthcare and electronics industry
<b>Optional model HD</b>	Optimal design special for ultrahigh density 1D and 2D bar code
<b>Function 7</b>	<b>2D Image Scan Engine (Option 7)</b>
<b>Image Resolution</b>	844(H)×640(V)
<b>Rotate</b>	360°
<b>Pitch Angle</b>	±45°
<b>Skew Tolerance</b>	±65°
<b>Laser Safety Grade</b>	Class II
<b>Scan depth</b>	7cm (5mil), 36cm (20mil)
<b>Image Frame</b>	60fps
<b>Code Support</b>	Aztec Code, Codabar, Codablock F, Code 11, Code 128, Code 2 of 5, Code 39, Code 93, Data Matrix, EAN/JAN-13, EAN/JAN 8, EAN-UCC Composite Codes, EAN-UCC Emulation, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MaxiCode, MicroPDF417, MSI, PDF417, Postal Codes (Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet), Plessey Code, PosiCode, QR Code, RSS Expanded, RSS Limited, RSS-14, TCIF Linked Code 39, Telepen, Trioptic Code, UPC-A, UPC-E, Etc.
<b>Light source system</b>	White light, laser aiming
<b>Minimum printing contrast</b>	20%
<b>Function 8</b>	<b>RFID Read/write (HF) (Option 8)</b>
<b>Standards Support</b>	Support ISO15693, ISO14443A/B (without encryption protocol), ISO14443A tag with encryption protocol (Mifare one S50, S70 and compatible with cards), Support NFC protocol

<b>Operating Frequency</b>	HF frequency 13.56MHz
<b>Reading Distance</b>	Typical values greater than 6cm (ISO15693), Typical values greater than 4cm (ISO14443A) Typical values greater than 1cm (ISO14443B) (Associated with tag)
<b>Function 9</b>	<b>GPS (Option 9)</b>
<b>Frequency</b>	GPS: L1 (1.575GHz);
<b>Maximum number of channels</b>	32channel
<b>Accuracy</b>	5-10meter (OPEN SKY)
<b>Function 10</b>	<b>Camera (Option 10)</b>
<b>Maximum Resolution</b>	2592*1944 (Taking pictures), 720P 15/30fps (camera)
<b>Photo Function</b>	Auto-focus
<b>Flashlight</b>	Support double flashlights
<b>Pixel</b>	5.0 mega pixel
<b>BSI</b>	Support

### 3. AUTOID®9 WIRELESS DATA COMMUNICATIONS

<b>Function 1</b>	<b>WLAN WIFI (Option 1)</b>
<b>Protocol</b>	IEEE 802.11a/b/g/n (2.4G/5G dual-frequency WIFI)
<b>Frequency Range</b>	Depending on the country (region), 2.4GHz is 2.4GHz-2.496GHz, 5GHz is 4.9GHz-5.85GHz
<b>Working Channel</b>	CH1~CH13, CH34-CH140, CH149~CH165
<b>Security</b>	OPEN, WEP, WPA2-PSK (TKIP+AES), TLS, TTLS (MS-CHAP), TTLS (MS-CHAP v2), TTLS (CHAP), TTLSMD5, TTLS-PAP, PEAP-TLS, PEAP (MS-CHAP v2), AES Etc.
<b>Transmission distance</b>	2.4G: more than 150m, 5G: more than 85m (industrial grade AP, open areas)
<b>Data Rate</b>	802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: 6.5, 13, 19.5, 26, 39, 52, 58.5, 65Mbps (20MHz, Long GI, 800ns) 802.11n: 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2Mbps (20MHz, short GI, 400ns)

<b>Antenna</b>	Built-in antenna
<b>Function 2</b>	<b>WWAN WCDMA (Option 2)</b>
<b>Frequency Band</b>	GSM: Quad Band (850/900/1800/1900Mhz) WCDMA: Band1
<b>Communication Rate</b>	GPRS: DL/UL171.2kbps EDGE: DL/UL384 kbps DC-HSPA+: DL 42Mbps/UL 5.76 Mbps
<b>Function 3</b>	<b>WWAN Network (WCDMA+EVDO+TD-SCDMA) (Option 3)</b>
<b>Frequency</b>	GSM: Qual band (850/900/1800/1900Mhz) TD-SCDMA: Band34, Band39 WCDMA: Band1, Band5 CDMA 1x /EVDO: BC0
<b>Communication Rate</b>	GPRS: DL/UL171.2kbps EDGE: DL/UL384 kbps TD: DL 2.8 Mbps/UL 2.2 Mbps DC-HSPA+: DL 42Mbps/UL 5.76 Mbps CDMA1x: DL/UL 307.2 kbps EVDO: DL 3.1 Mbps/UL 1.8 Mbps
<b>Function 4</b>	<b>WPAN Bluetooth (Option 4)</b>
<b>Standard</b>	Bluetooth 4.0 (Dual mode, Support BLE)
<b>Power</b>	Class 2
<b>Distance</b>	More than 20m (industrial Bluetooth adapter)

#### 4. AUTOID®9 THIRD PARTY APPLICATION DEVELOPMENT SUPPORT

<b>System Software</b>	Android 4.4
<b>System programming environment</b>	Android IDE (Eclipse)

#### 5. AUTOID®9 EXTERNAL EQUIPMENT AND ACCESSORIES

<b>Standard Accessories</b>	Universal adapter×1, USB cable×1, Hand Tether×1, Battery ×1, Hand Belt×1
<b>Optional Accessories</b>	Single-Slot Battery Charger, 4-Slot Battery Charger, Magnetic tail plug, Single-Slot Charging Dock, 5-Slot Charging Dock, Touch pen, Pistol grip, Vehicle mounted charging rack, Vehicle charger, Multifunctional bag, knapsack for Pistol Grip, Protective cover, Screen protector