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AUTOID UTouch 2-30(1000/3)

Ultra-Long-Range UHF RFID Handheld Terminal

The Performance Flagship of the UTouch Series

Supports GEN2X™ 30m



Core Advantages

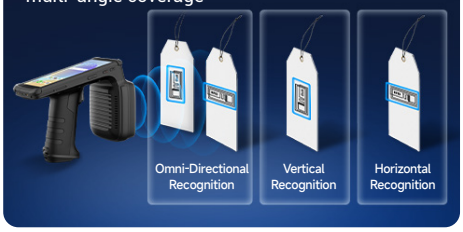
30 m Ultra-Long Read Range
Tackle long-range RFID reading challenges



1,000 Tags in Just 3 Seconds
Efficiently capture dense and small RFID tags



Industry-First Multi-Polarization Automatic Recognition Technology
40% higher reading efficiency than conventional circularly polarized RFID devices
Reads tags reliably from any orientation with multi-angle coverage



11700mAh High-Capacity Battery
Dual-battery design with ultra-large capacity
Extended runtime for massive tag reading and long outdoor operations



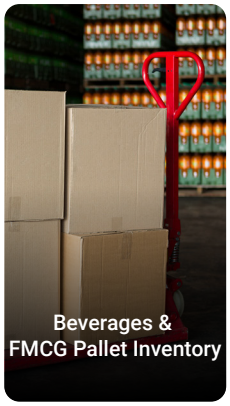
IP67 & 1.5 m Drop Resistance

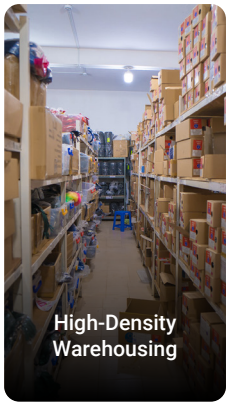


Reliable RFID Tag Reading in Extreme Environments

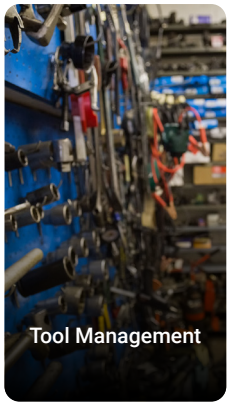












AUTOID UTouch 2-30(1000/3) Specifications

I. Performance, physical and environmental parameters of use

CPU	Eight-core 2.0GHz
Operating system	Android14
Storage	6GB+64GB (optional 8GB+128GB)
Board slot	SIM+TF
User Storage Extension	Micro SD Card, compatible up to 256GB
Interface /Communication	Waterproof Type C USB interface, support USB2.0 HighSpeed, support OTG
Keyboard	Power + Volume (+, -) + UHF + SCAN + Custom + Handle button
Display Screen	5.5" display with capacitive touch
	1440(H)×720(W)
Power Supply	≧11700mAh (Main unit 5000mAH + Handle 6700mAh replaceable)
	Bottom Type C USB port, support QC3.0 fast charging, intelligent recognition of PC and charger
Notification Mode	Sound, vibrator, LED light indication
Audio	Built-in single speaker, built-in dual microphones (with noise cancellation)
Sensor	G-sensor, light sensor, distance sensor, electronic compass, gyroscope
Dimension	159(H)*78(W)*133(T)mm
Weight (including standard battery)	715g (including battery, depending on configuration)
Operating temperature	-20°C ~ +50°C
Storage temperature	-40°C ~ +60°C (including battery) -40°C ~ +70°C (without battery)
Humidity	5% to 95% RH, no condensation
Waterproof and dustproof industrial grade	IP67
Drop rating	1.5 m
Electrostatic discharge (ESD)	±15 kV air discharge, ±8kV direct discharge

II. Data acquisition functional parameters

Function 1	2D image scan engine
Optical resolution	1080 x 1280 pixels
Upward/downward tilted view	Deviation from normal angle ±60°
Rightward/leftward tilted view	Deviation from normal angle ±55°
Laser safety level	Class II
Image fame rate	60fps
Support symbols	1D：UPC/EAN, UPC/EAN , Code128, GS1-128, Code 93, Code11, Matrix 2 of 5, Interleaved 2 of 5, Codabar, MSI , Code11， etc. 2D：PDF417, MicroPDF417,Data Matrix, Maxicode, QR Code, MicroQR, Aztec,etc
Lighting, projection	Warm light, laser projection
Min. print contrast	20%
Function 2	Rear camera image acquisition
Max. resolution	4224*3136
Pixel	13 mega-pixels
Camera function	PDAF phase focusing
Flash light + fill light	Support
Function 3	Front camera image acquisition
Max. resolution	2592*1944
Pixel	5 mega-pixels
Camera function	Fixed focus
Function 4	GPS geographic location information acquisition
Positioning system	GPS+GLONASS+Beidou, support AGPS
Frequency	GPS: L1/L5; Beidou: B1; GLONASS: L1/L5
Accuracy	5m-10m

III.Wireless data communication functional parameters

Function 1	Wireless LAN-WIFI
Protocol	IEEE 802.11 ac/a/b/g/n/ax Ready (2.4GHz/5GHz Dual-Band Wi-Fi)
Frequency Range	Depending on the country (region), 2.4GHz is 2.412GHz-2.472GHz; 5GHz is 5.180GHz-5.825GHz
Working channel	CH1~CH13, CH36-CH140, CH149~CH165
Security	Support WPA2 -Personal, WPA2 -Enterprise, EAP-TLS, EAP-TTLS/ MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, and EAP-AKA Prime
Function 2	RFID Read/Write(HF)
Read-write tag	Support ISO15693, ISO14443A/B (without encryption protocol), and support NFC protocol
Operating frequency	HF frequency band 13.56MHz
Reading Distance	ISO15693 typical value >5cm, ISO14443A typical value >4cm, ISO14443B typical value >1.5cm (label related)
Function 3	Wireless WAN(North America)
Frequency	GSM：Qual Band(850/900/1800/1900Mhz) WCDMA：Band2，Band4，Band5，Band8 TDD-LTE：Band38，Band39，Band41 FDD-LTE：Band2，Band4，Band 5，Band7，Band8，Band12，Band 17 ,Band13，Band25，Band26，Band66，Band71
Function 4	Wireless WAN(Eurasian)
Frequency	GSM：Qual Band(850/900/1800/1900Mhz) WCDMA: Band1、Band2、Band5、Band8 CDMA :BC0 EVDO TD-SCDMA B34、B39 LTE: Band1、Band3、Band5、Band7、Band8、Band20、Band28、Band34、Band38、Band39、Band40、Band41 CA: B1+B3、B39+B41

IV.Functional parameters

Function 1	RFID Read/Write (UHF)
Read-write tag	Conforms to ISO-18000-6C/EPC C1 Gen2/EPC C1 Gen2X
Antenna Parameters	Horizontal polarization, vertical polarization and circular polarization, support software settings
Operating frequency	China: 920-925MHz, United States: 902-928MHz, European Union: 865-868MHz (lower band) and 915-921MHz (Upper band), other regional frequency bands can be supported
Operating mode	Operates as a frequency hopping spread spectrum (FHSS) or fixed frequency transmission mode
Output power	1~33dBm
Reading Distance	≥18m @ U9 white card (practical distance subject to label and environment) ≥30m @ Inlay-M830 70*14 (practical distance subject to label and environment)
Write-in Distance	0-10m@U9 white card (practical distance subject to label and environment)
Group Reading Speed	Echieve 1300 frames/sec (practical distance subject to label and environment)
Reading Speed	12 ms per separate character (32bits) on average
Write-in Speed	60 ms per separate character (32bits) on average
Power consumption	Average power < 8W

V.Third party application development support

System Software	Android 14
System Programming Environment	Android Studio

VI.Exteriors and accessories

Standard Accessories	Power adapter×1, Type C data communication cable×1
Optional Accessories	IIntegral single cradle charger, battery quad cradle charger, grip battery, and hand strap;

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