

# CRUISE2U

## Industrial UHF RFID Mobile Terminal

CRUISE2U is an economical and highly cost-effective, detachable 5G remote mobile handheld terminal. The 5G performance has improved by 10% compared to similar devices in weak signal conditions. Smooth connections can still be maintained in weak signal areas such as tunnels, subways, mines, factories, and elevators. The Impinj E710 engine combined with our own anti-collision algorithm offers outstanding RFID reading capabilities. It allows for direct configuration of scenario-specific parameters, enabling one-click realization of the optimal recognition performance in complex scenarios.



## Product Features



### 6.0-inch narrow bezel

It strikes a balance between portability and user experience, avoiding the cramped operation of small screens while also not being as cumbersome as devices with a screen size of 7 inches or larger. It's particularly suitable for scenarios such as warehouse inventory checking and field office work.



### Balanced weight with ultra rugged

Just 668g weight, and its balanced design makes it not flip over head when holding in your hand, its humanize design. This device withstand 1.5m drops to six corners 40 times it's IP67 protection.



### Dual battery, support long shift work

Equipped with 5000mAh main unit battery and 3350mAh handle battery, support continuous scanning at max power for more than 5 hours, and it also supports the replacement of the handle battery with a capacity of 6700mAh.

## Specifications

Physical Characteristics	
<b>Dimensions</b>	7.4 in. L x 3.6 in. W x 5.4 in. T 189(H)*91(W)*138(T) mm
<b>Weight</b>	23.6 oz./668 g with battery
<b>Display</b>	6" display with capacitive touch,1440(H)×720(W)
<b>Power</b>	8350 mAh (Main unit 5000mAh + Handle 3350mAh replaceable),the handle can also be equipped with a 6700 mAh battery. Bottom Type C USB port, support QC3.0 fast charging, intelligent recognition of PC and charger;
<b>SIM Card Slot</b>	SIM (Nano-sim*2)
<b>Expansion Slot</b>	Micro SD Card, compatible up to 256GB
<b>Interface/Communication</b>	Waterproof Type C USB interface, support USB2.0 HighSpeed, support OTG.
<b>Notifications</b>	Sound, vibration, LED indicator light
<b>Buttons</b>	Power + Volume (+, -) + UHF + SCAN + Custom
<b>Voice and Audio</b>	Built-in single speaker, built-in dual microphones
Performance Characteristics	
<b>CPU</b>	Octa core 2.4GHz
<b>Operating System</b>	Android 14
<b>Memory</b>	4GB RAM/64 GB Flash memory (optional 8GB+128GB)
User Environment	
<b>Operating Temp.</b>	-4°F /-20°C to +131°F /+50°C
<b>Storage Temp.</b>	-40°F /-40°C to +158°F /+70°C (no battery)
<b>Humidity</b>	5% to 95%, non-condensing
<b>Drop Spec.</b>	Multiple drops from 4.9 ft./1.5 m
<b>Sealing</b>	IP67
<b>Electrostatic Discharge (ESD)</b>	±15kV Air discharge, ±8kV direct discharge
<b>Sensor</b>	G-sensor, light sensor, distance sensor, electronic compass, gyroscope
Data Capture	
<b>Scanning</b>	
<b>Scan Engine</b>	Middle range 2D imager scan engine
<b>Camera</b>	
<b>Front camera</b>	Fixed focus. 5MP
<b>Rear camera</b>	Auto-focus, 13 MP, Support double flashlights, PDAF phase focusing
RFID Read/Write(UHF)- Standard Configuration	
<b>Read-write tag</b>	Conforms to ISO-18000-6C/EPCC1G2
<b>Antenna Parameter</b>	5dBi circular polarization, default 902-928MHz
<b>Frequency</b>	860-930 MHz (customized according to

	country's regional regulations), default 920-925 MHz
<b>Operation Mode</b>	Operates as a frequency hopping spread spectrum (FHSS) or fixed frequency transmission mode
<b>Output power</b>	1~33dBm
<b>Reading distance</b>	≥9m @9662 white card (practical distance subject to label and environment)
<b>Writing distance</b>	0-6m@9662 white card (practical distance subject to label and environment)
<b>Group reading speed</b>	Achieve 1300 frames/sec @impinj H47 (practical distance subject to label and environment)
<b>Reading rate</b>	12 ms per separate character (32bits) on average
<b>Writing rate</b>	60 ms per separate character (32bits) on average
<b>Power consumption</b>	less than 10W (average)
GPS Location information collection	
<b>Positioning system</b>	GPS+GLONASS+Beidou, support AGPS
<b>Frequency</b>	GPS: L1; Beidou: B1; GLONASS: L1
<b>Accuracy</b>	5-10meter
Wireless Connectivity	
<b>WLAN</b>	
<b>Protocol</b>	IEEE 802.11ac/a/b/g/n/d/e/h/i/j/k/r/v/w (2.4G/5G dual-band WIFI)
<b>Frequency Range</b>	Depending on the country (region),2.4GHz is 2.412GHz-2.472GHz; 5GHz is 5.180GHz-5.825GHz
<b>WWAN</b>	
	GSM: Qual Band(850/900/1800/1900Mhz) WCDMA Band1、Band2、Band5、Band8 CDMA 1x /EVDO:BC0 TD-SCDMA:B34、B39 TDD-LTE: Band34, Band38, Band39, Band40, Band41 FDD-LTE: Band1, Band3, Band 5, Band7, Band 8, Band20, Band28 5G: N1、N3、N8、N28、N41、N78、N79; support VONR; Support SA/NSA dual mode (Sub6G)
Accessories	
<b>Standard</b>	Power adapter×1, Type C data communication cable×1,SIM card removal tool *1
THIRD PARTY APPLICATION SUPPORT	
<b>System Software</b>	Android 14.0
<b>System programming environment</b>	Android Studio