

## UHF Handheld Reader



**Model: PU0029**

**Product size: 143.3mmx169mm×90.5mm**

**Net weight: 678G**

**1. Basic parameters**

|                        |                               |   |
|------------------------|-------------------------------|---|
| Performance parameters | Model                         | PU0029  |
|                        | Operating system              | Android 11.0  |
|                        | Processor                     | Eight cores 64 bit, 2.45 GHz  |
|                        | Memory                        | RAM: 4GB ROM: 64GB<br>RAM: 6GB ROM: 64GB (Optional)   |
|                        | Extended memory               | Micro SD card, Supports up to 256GB   |
| Basic specifications   | Product size                  | 143.3mmx169mm×90.5mm  |
|                        | Total Weight                  | 678g  |
|                        | Display                       | 5.7-inch color full screen (720×1440)   |
|                        | Touchscreen                   | Supports multi-touch, glove touch, multi-touch, water operation and passive pen signature   |
|                        | Main battery                  | 3.85V 9000mAh Rechargeable lithium battery  |
|                        | Charging time                 | No more than 7 hours  |
|                        | Audio                         | 1.5W Speaker, two microphones (supports noise reduction), earpiece  |
|                        | Button                        | Volume +, - keys, one power key, one PTT key each, 2 scan keys, handle trigger key  |
|                        | Camera                        | Front 5 million pixels, rear camera 13 million pixels, supports flash   |
|                        | Sensor                        | Distance, light perception, acceleration, geomagnetism, gyroscope   |
|                        | Scanning                      | Professional scanning head, supports scanning of mainstream one-dimensional and two-dimensional codes, and supports screen scanning |
|                        | Card slot type                | Nano-SIM x 2 、 Micro SD Supports up to 256GB expansion  |
| Data communication     | Wireless wide area network    | Dual SIM<br>4G, 3G, 2G All Netcom   |
|                        | Bluetooth                     | BT5.0 + BR/EDR + BLE  |
|                        | WIFI                          | 2.4G/5G Dual band, IEEE 802.11a/b/g/n/ac/d/e/h/i/k/r/v/w<br>Protocol fast roaming: 802.11r /OKC/ PMKID caching                      |
|                        | Position                      | High-precision GPS, supports A-GPS, Beidou and GLONASS, Galileo   |
| Usage environment      | Operating temperature         | -20 ~ +60°C   |
|                        | Storage temperature           | -40 ~ +70°C   |
|                        | Humidity                      | 5%RH~95%RH (No condensation)  |
|                        | Falling earthquake resistance | Can withstand the impact of multiple drops to a smooth cement floor from a height of 1.2 meters                                     |

|  |                   |  |
|--|-------------------|--|
|  | height            |  |
|  | Protection level  | IP67   |
|  | Static Protection | Air discharge $\pm 15KV$ , contact discharge $\pm 8KV$ |

**2. Data collection function parameters**

**1) Camera**

|                 |  |
|-----------------|--|
| Camera          |  |
| Overhead camera | 1300W                                      |
| Front camera    | 500W                                       |
| Focus mode      | Autofocus, touch selection, face detection |
| Flash           | 700mA, supports flashlight function        |
| Video shooting  | Fixed focus, 1080p video recording         |

**2) Scan head**

|                                    |  |
|------------------------------------|--|
| Scan head module                   | Regular 2D   |
| Rotate view                        | 360°   |
| Up and down tilt angle             | $\pm 60^\circ$   |
| Shift angle of view left and right | $\pm 60^\circ$   |
| Support code system                | <p>Linear: Codabar, Code 11, Code 128, Code 2 of 5, Code 39, Code 93 and 93i, EAN/JAN-13, EAN/JAN 8, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI, GS1 Databar, UPC-A, UPC E, UPC-A/EAN-13 with Extended Coupon Code, Coupon GS1 Code 32(PARAF), EAN-UCC Emulation, GS1 Data Bar</p> <p>2D Stacked: Codablock A, Codablock F, PDF417, MicroPDF417</p> <p>2D Matrix: Aztec Code, Data Matrix, MaxiCode, QR Code, Chinese Sensible (Han Xin), Grid Matrix, Dot Code</p> <p>Postal: Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet</p> |

**3) RFID (UHF)**

|                    |   |
|--------------------|---|
| RFID               | read/write( UHF)  |
| Working frequency  | 840~960MHz (Can be adjusted according to the requirements of different countries or regions)                  |
| Protocol standards | ISO18000-6C (Standard EPC C1G2), supports a variety of temperature measurement labels and LED lighting labels |
| Working distance   | Typical tag sensing distance exceeds 20 meters (distance depends on tag)                                      |

|              |             |
|--------------|-------------|
| Antenna gain | Gain 4.5dBi |
|--------------|-------------|

**3. Data communication parameters**

**1) GPS positioning**

| Positioning                | Positioning parameters   |
|----------------------------|--|
| Support mode               | Support GPS, A-GPS, Beidou, GLONASS, Galileo   |
| Frequency                  | GPS ( L1+L5) , Beidou ( B1 1.561GHz) , GLONASS(L1 1.602GHz), Galileo (E1 1.589 GHz / E2 1.561 GHz) |
| Cold start time            | less than 40s  |
| Maximum number of channels | 31channel  |
| Sensitivity                | -130dB(SNR value 40dBHz)   |
| Accuracy                   | 5-10 meters (open space)   |

**2) Wireless communication function**

| Wifi            | Wireless LAN  |
|-----------------|---|
| Protocol        | IEEE 802.11a/b/g/n/ac/d/e/h/i/k/r/v/w protocol (2.4G/5G dual-band WIFI) IEEE 802.11ax ready   |
| Frequency Range | 2.4G、5G   |
| Working channel | CH1~CH13, CH34-CH140, CH149~CH165 (depending on country)  |
| Safety          | WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP, and AES); WPA3 Personal (SAE); WPA/WPA2 Enterprise (TKIP and AES); WPA3 Enterprise 192-bit mode (GCMP-256) - EAP-TLS; Enhanced Open (OWE) |
| Roaming         | PMKID caching; Cisco CCKM; 802.11r(Over-the-Air); OKC, WIFI roaming threshold could be set  |

**3) Wireless WAN**

| Wireless WAN       | WAN communication parameters  |  |
|--------------------|---|--|
| Communication mode | Dual SIM  |  |
| Domestic version   | China Mobile 4G (TD-LTE)<br>China Unicom 4G (FDD-LTE)<br>China Telecom 4G (FDD-LTE) | TD-LTE (B34/B38/B39/B40/B41)<br>FDD-LTE (B1/B2/B3/B4/B5/B7/B8/B12/B17/B19/B20/B28A/B28B) |
|                    | China Unicom 3G (WCDMA)<br>Telecom 3G (CDMA2000)<br>Mobile 3G (TD-SCDMA)            | WCDMA (B1/B2/B4/B5/B8)<br>TD-SCDMA (B34/B39)<br>CDMA2000 1x EV-DO Rev. A BCO (800MHz)    |

|                                   |  |   |
|-----------------------------------|--|---|
|                                   | China Mobile 2G (GSM)<br>China Unicom 2G (GSM)<br>Telecom 2G (CDMA)  | CDMA1x<br>GSM/EDGE/GPRS (850/900/1800/1900) |
| Frequency band (Eurasian version) | TD-LTE(B34/B38/B39/B40/B41)<br>FDD-LTE(B1/B3/B5/B7/B8/B20)<br>WCDMA(B1/B2/B4/B5/B8)<br>TD-SCDMA(B34/B39)<br>CDMA2000 1x EV-DO Rev.A BC0 (800MHz)<br>CDMA1x<br>GSM/EDGE/GPRS(850/900/1800/1900) |   |
| Frequency Band (American Version) | TD-LTE(B41)<br>FDD-LTE(B1/B2/B3/B4/B5/B7/B8/B12/B17/ B28A/B28B)<br>WCDMA(B1/B2/B4/B5/B8)<br>CDMA2000 1x EV-DO Rev.A BC0 (800MHz)<br>CDMA1x<br>GSM/EDGE/GPRS(850/900/1800/1900)                 |   |

#### 4) Bluetooth

|              |                      |
|--------------|----------------------|
| Standards    | Bluetooth parameters |
| Support mode | BT5.0 + BLE          |

#### 4. Development support

|                                 |   |
|---------------------------------|---|
| Development support             | parameter   |
| Operating system                | Android 11.0  |
| Management platform             | Support MDM remote management   |
| Support development environment | Eclipse, Android Studio, Vim, Ubuntu  |
| System special tools            | iLuncher home screen tools, system feature settings, scan head settings, cloud intercom |

#### 5. Optional accessories

|             |   |
|-------------|---|
| Accessories | Accessory type  |
| Accessories | Charger (supports charging 1 device + 1 battery), tempered film |

Note:

- 1. If the manual changes, please refer to the latest version.*
- 2. Xiamen Innov Information Science & Technology Co., Ltd. reserves the right of final explanations.*