

UROVO DT50

Specifications



UROVO Technology Co., Ltd.

SPECIFICATION

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|----------------------|------------------------|---|
| Performance | <i>Model</i> | DT50 |
| | <i>O.S</i> | Android 13.0 (GMS) |
| | <i>Processor</i> | Qualcomm Snapdragon Octa-Core 2.45GHz (64bit) |
| | <i>Memory</i> | RAM : 6 GB, ROM : 64 GB |
| | <i>Extended Memory</i> | Micro SD card, Up to 256 GB |
| Basic Specifications | <i>Dimensions</i> | 162.6 x 76 x 13.6 (mm) (D x W x H) |
| | <i>Weight</i> | 265 g |
| | <i>Display</i> | 5.7 inch display, resolution : 1440 x 720 pixels IPS HD screen |
| | <i>Touch Screen</i> | Ultra sensitive capacitve touch panel, support multi-touch, wet-fingers operation, glove mode and one-hand operation (interface display) |
| | <i>Main Battery</i> | Capacity : 3.85V – 5,000 mAh (Removable main battery) Continuous use : over 8 hours (depending on user environment) Charging time : 3.0 hours (charge device by standard adaptor 5V2A and USB cable) (Battery from 10% to 100%) Standby : up to 80 hours |
| | <i>Audio</i> | Dual-Microphone (noise cancellation), Speaker (1.5W, 100dB @10 cm), Receiver, 3.5mm audio jack |
| | <i>Buttons</i> | PWR button, Vol +/- button, Scan button x 2, Custom button |
| | <i>Notifications</i> | Audible tone; multi-color LED; vibration |
| | <i>Camera</i> | Rear 13 MP with Flash |
| | <i>Sensors</i> | Light + Accelerator + Proximity + Geomagnetic + Gyro |

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| | <i>Scanning</i> | Professional scan engine Support international standard 1D/2D barcode; Support barcode displayed on screen and colored barcode; |
| | <i>Slots</i> | Micro SD/TF x 1, Nano – SIM x 2 |
| | <i>Interfaces</i> | USB Type C x 1 – Support OTG; USB 2.0 communication speed Bottom pogo pin x 2, Back pogo pin x 9 |
| | <i>Charging Method</i> | Type C charging, support 9V2A Quick Charge 3.0 |
| Network Connections | <i>WWAN</i> | 2G/ 3G/ 4G Dual – SIM, Dual – Standby |
| | <i>Bluetooth</i> | BT 5.0 + BR/EDR + BLE |
| | <i>Wifi</i> | 2.4GHz/ 5GHz, IEEE 802.11 a/b/g/n/ac/d/e/h/i/k/r/v/w 802.11 ax ready (Wifi 6) Roaming : 802.11r/ OKC/ PMKID caching |
| | <i>NFC</i> | RFID 13.56MHz, ISO15693, ISO14443A/B, Mifare, Felica |
| | <i>Positioning</i> | GPS, A-GPS, BeiDou, GLONASS, Galileo |
| Environment | <i>Operating Temp</i> | -20°C to 60°C. |
| | <i>Storage Temp</i> | -40°C to 70°C. |
| | <i>Humidity</i> | 5%RH ~ 95%RH (No condensation) |
| | <i>Drop</i> | Multiple 1.5 (m) drops to concrete at room temperature |
| | <i>Sealing</i> | IP67 |
| | <i>Trigger switch life</i> | > 500,000 actuations |
| | <i>ESD</i> | +/- 15kv Air +/- 8kv Contact |

DATA CAPTURE SPECIFICATIONS

1) Camera :

| Rear Camera | |
|--------------------|---|
| Functions | Flash light (700 mA), Auto Focus, Video, PDAF |
| Pixels | 13 MP |

2) Scan Engine :

| Scan Engine Specifications | |
|-----------------------------------|--|
| Scan Engine Model | SE2030S |
| Field of View | Horizontal: 38°, Vertical: 33° |
| Scan Angle Tilt | 360° |
| Scan Angle Pitch | +/- 60° |
| Scan Angle Skew | +/- 60° |
| Laser Type | Class II |
| Fill – in Light | Warm-White LED, Soft Light |
| Barcodes Support | |
| 1D Symbologies | UPC, EAN-13, EAN-8, GS1 Databar, Code 39, Code 128, Code 32, Code 93, Codabar/NW7, Interleaved 2 of 5, Code 2 of 5, Matrix 2 of 5, MSI, Telepen, Trioptic, China Post, etc. Minimum Resolution : 3 mils |
| 2D Symbologies | PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, Hanxin, MaxiCode; Postal Codes: US PostNet, US Planet, UK |

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| | Postal, DotCode, Australian Postal, Japan Postal, Dutch Postal (KIX),etc. Minimum Resolution : 10 mils |
| OCR | OCR-A, OCR-B, E13B (MICR) |
| Motion Error Tolerance | 4 m/s |
| Scan Time Identifier | 0.1s |

3) RFID (HF) :

| RFID (HF) | |
|------------------|--|
| Protocol | ISO15693, ISO14443 A/B, Mifare, Felica |
| Frequency | 13.56 MHz |
| Mode | Card Emulation, Peer to Peer, Reader |
| Reading Range | Read distance 0 – 6 (cm) (ISO15693), 0 – 4 (cm) (ISO14443) |

NETWORK CONNECTIONS

1) Positioning :

| Positioning Specification | |
|----------------------------------|---|
| Mode | GPS, A-GPS, BEIDOU, GLONASS, GALILEO |
| Frequency | GPS (L1), Beidou (B1 1.561GHz), Glonass (L1 1.602GHz), Galileo (E1 1.589GHz/ E2 1.561GHz) |
| Cold Start Time | Less than 40s |
| Max Channel | 31 Channel |

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| Sensitivity | - 130 dB (SNR value 40dBHz) |
| Accuracy | 5 – 10 (m) (open space) |

2) Wireless WAN

| WAN Specifications | | |
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| Mode | Dual – SIM, Dual - Standby | |
| Frequency Band (Worldwide) | 4G (TD-LTE) 4G (FDD-LTE) | TE-LTE (B34, B38, B39, B40, B41); FDD-LTE (B1, B2, B3, B4, B5, B6, B7, B8, B12, B13, B17, B20, B28A, B28B) |
| | 3G (WCDMA) 3G (CDMA2000) 3G (TD-SCDMA) | WCDMA (B1, B2, B4, B5, B8); TD-SCDMA (B34, B39) CDMA2000 1x EV-DO Rev.A BC0 (800 MHz) |
| | 2G (GSM) 2G (CDMA) | CDMA1x GSM/EDGE/GPRS (850, 900, 1800, 1900) |
| Frequency Band (Europe & Asia) | 4G (TD-LTE) 4G (FDD-LTE) | TE-LTE (B34, B38, B39, B40, B41); FDD-LTE (B1, B3, B5, B7, B8, B20) |
| | 3G (WCDMA) 3G (CDMA2000) 3G (TD-SCDMA) | WCDMA (B1, B2, B4, B5, B8); TD-SCDMA (B34, B39) CDMA2000 1x EV-DO Rev.A BC0 (800 MHz) |
| | 2G (GSM) 2G (CDMA) | CDMA1x GSM/EDGE/GPRS (850, 900, 1800, 1900) |

3) Wireless LAN

| WLAN Specification | |
|---------------------------|--|
| Protocol | Wifi 6 - IEEE 802.11 a/b/g/n/ac/d/e/h/i/k/r/v/w/ax ready 2.4GHz/ 5GHz dual band |
| Frequency | 2.4 GHz - 5 GHz |
| Working Channels | CH1 ~ CH13, CH34 ~ CH140, CH149 ~ CH165, depends on contry (region) |
| Security & Encryption | 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) |
| Fast Roaming | PMID caching, Cisco CCKM 802.11r (Over – the – Air) OKC, Wifi roaming threshold could be set |

4) Wireless PAN

| Bluetooth Specification | |
|--------------------------------|----------------------|
| Mode | BT5.0 + BR/EDR + BLE |
| Range | More than 10 (m) |

ACCESSORIES

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| Standard Accessories | Adapter Power 5V2 x 1 |
| | USB Cable - Type C cable x 1 |
| | Battery 5.000 mAh x 1 |
| | Case x 1 |

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| | Screen Protector x 1 |
| | Handstrap x 1 |
| | Instructions & Security Information (English + VietNameese) x 1 |

Document Revision

| Version No. | Date | Description |
|-------------|-------------------|---|
| 1.00 | 2022/08/20 | DT50 |
| 1.01 | 2023/07/15 | <i>Change Processer MediaTek to Qualcomm</i> |
| 1.02 | 2024/10/10 | <i>Change Android OS 11.0 to Android OS 13.0</i> |
| 1.03 | 2025/04/01 | <i>Update Memory Ram/Rom : 6Gb/64Gb & 8Gb/128Gb</i> |