

iData 50P Large Screen Mobile Computer

2021 version, Comprehensive performance upgrade



➤ **Deep optimization of scanning performance**

♦ **Quick scanning**

Core technologies Smart light 2.0: decoding speed increased by 50%, decode 1200 times per minute;

♦ **Long-lasting barcode scanning**

AI intelligent dimming & power saving mode, according to the scene automatically fill light & adjust power consumption, reduce power consumption, battery life significantly improved;

♦ **The farther the scanning depth of field**

Wider reading range, depth of field increased by 30% on average;
Adaptive depth of field.

♦ **Deep optimization of Wi-Fi performance**

♦ **Wi-Fi 802.11 a/b/g/n/ac/r/d/e/h/i/j/k/v:** 5G Wi-Fi network, standard fast roaming, stable connection, zero delay, no drop;

♦ **High-performance 5G PA amplifier:** Wi-Fi performance is maximized to meet the needs of faster transmission rates in complex environments.

➤ Comprehensive upgrade

- ♦ **Enterprise-class Android 9.0 OS + Octa-core CPU;**
- ♦ Upgrade to Bluetooth 5.0 connection, faster and more stable, lower power consumption; support to connect multiple Bluetooth devices at the same time.

➤ Endurance performance improvement

- ♦ Standard 4000mAh large-capacity battery, support 5V / 2A fast charging solution.

➤ It is easier to be used and more portable.

- ♦ **4.7-inch HD screen with full viewing angle and touch panel to make work efficient.** Suitable for one hand operation with ultra-high-definition display of 1280*720 resolution. The touch screen uses industrial-grade ultra-sensitive capacitive screen to support gloves and wet hand operation;
- ♦ **It is very portable to make work easier.** It weighs only 230g including the battery, which makes it the most portable device in the industry. It can be easily kept in a pocket and be used for long time without fatigue with its ergonomic design;
- ♦ IP67+1.5m drop resistance, rugged and reliable;
- ♦ It is easy to adapt to the professional grip, which is stable and easy to operate. Scanning at high altitude is easy and simple, which doubles the work efficiency.

System Configuration

CPU	Octa-core 2.0 GHz
Operating System	Android 9.0
Memory(ROM+RAM)	16GB + 2GB
Expansion Slot	Micro SD card, up to 256 GB
Display	4.7 inch, 1280 x 720 High resolution
Touch Panel	Industrial-grade capacitive touch panel (supporting operation with gloves)
Camera	8 MP autofocus camera in the back side (13 MP optional), 5MP front camera optional
Exit Window	Corning® Gorilla® glass
Keypad	4 front keys, 4 side keys, Power key
Battery	3.85V 4000mAh rechargeable lithium polymer battery
Audio	Built-in microphone /Micro USB/Headphone connector
Notification	Vibrator alerts/LED/Audio notification
Vibration Motor	Built-in programmable vibration motor

Sensor	G-Sensor/Proximity sensor/Light sensor
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Structural Parameters

Dimensions (LxWxD)	150 mm×73.5 mm×16 mm (head 24mm thickness)
Weight	230g (battery included)

Communication Transmission

Wireless WAN (Network frequency)	Asia & Europe: 2G: B2/B3/B5/B8 3G: WCDMA: B1/B2/B5/B8 CDMA BC0 TD-SCDMA:B34/B39 4G: FDD-LTE: B1/B3/B7/B8/B20 TDD-LTE: B34/B38/B39/B40/B41 America: 2G: B2/B3/B5 3G: B1/B2/B4/B5; CDMA BC0/BC1 (U.S.A) 4G: B1/B2/B3/B4/B5/B7/B12/B17/B28A/B28B/B41
Wireless WAN (Data service)	GSM/GPRS/EDGE/CDMA/UMTS/HSPA/HSPA+/EVDO/WCDMA/TD-SCDMA/TDD-LTE/FDD-LTE
Wireless LAN	Wi-Fi 802.11 a/b/g/n/ac/r/d/e/h/i/j/k/v, Dual-band Wi-Fi:2.4G+5G, 5G PA, support fast roaming
Bluetooth	Bluetooth 5.0
GPS (optional)	GPS/AGPS/Beidou Compass/Galileo/Glonass
PSAM card	Support

Operating Environment

Development Tools	Android SDK+ JDK + Eclipse
Programming Language	Java
Operating Temp.	-20°C ~ 60°C(-4°F ~ 140°F)
Storage Temp.	-40°C ~ 60°C (-40°F ~140°F) battery included -40°C ~ 70°C (-40°F ~158°F) battery not included
Relative Humidity	0 ~ 95% (non-condensing)
Drop Specification	1.5-meter drops to concrete ground
Sealing	IP67
Electrostatic Discharge	Conforms to ±15 kV air discharge, ±8 kV direct discharge

1D Laser Scanner

Scan Precision	5mil
Rotate Angle	±35°
Pitch Angle	±65°
Skew Tolerance	±50°
Ambient Light	Sunlight: 10,000ft. Candles (107,640Lux)
	Artificial Light: 450ft. Candles (4,844Lux)
Scan Frequency	104±12 /sec
Laser Safety Grade	Class II
Code Support	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.

1D / 2D Area Imager

Scan Precision	3mil c39/128
Rotate Angle	360°
Pitch Angle	±45°
Skew Tolerance	±65°
Scan Frequency	1 scans /50ms
Laser Safety Grade	Class II
Image Resolution	844(H)×640(V)
Image Frame	60fps
Light Source System	White light, laser aiming
Minimum Printing Contrast	20%
Code Support	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.

NFC (Optional)

Frequency	13.56 MHz
Reading Distance	Within 30 mm
Protocol	ISO14443A/14443B/15693

Input/Output Ports

USB Port	1 (Type-C port)
Charger Port	1 (Charging interface at the bottom)
Headset Port	2 (3.5mm headphone jack + Type-C port)
OTG	Support (Maximum support 256GB)

Accessories

Standard	Battery, Power adapter, Hand strap, Screen protector (PET), Bottom charging cable
Optional	USB cable, Single cradle, Charging cradle, 4-slot device cradle, 4-slot battery cradle, Carry case (with wrist strap), Screen protector(composite),Q5000