
PDT 4F Wireless Data Terminal

User Manual



I. Three main functions

PDT 4F is a simple wireless scanner, it's as same as the traditional wireless scanners. User can use this product without any programming. The screen displays the current radio channel, wireless signal strength and battery level, etc. After scanning barcode, it transmits the data to computer by the wireless base station.

It has three collection modes:

Wireless Scanner Mode, Barcode Collect Mode, Inventory (no names) Mode.

1. Wireless Scanner Mode

Wireless scanner mode function is as same as the traditional wireless scanners, after scanning barcode, it transmit the data by the wireless base

station and then send to the computer through the USB interface wireless base station. When the wireless signal is not good, a maximum of about 400 barcodes can be cached

2. **Barcode Collecting Mode**

This mode is a non-real-time transfer data mode, and close to the traditional inventories which send the barcode after the end of mass collection. It can save 10000 barcodes, could identify and deal the same barcode.

3. **Inventory (no names) Mode**

Inventory mode is a simple inventory mode, only collect barcodes and quantities, without the items' name. After users had finished

scanning one barcode, the corresponding number (quantity value) of barcodes will auto plus one or you can modify it by press digit key to input new number value manual.

II. Four features

- 1、**Easy USB wireless cable**, without any drive, supports WIN7/VISTA/XP/WIN2000, supports USB keyboard mode (default) and USB serial mode (need drive)
- 2、**Flexible wireless export format**: Many PC software requires some special data format, such as the barcode, the number of equipment number: barcode, and so on, now these are not programming, just need

to set the export format can be easily achieved.

3、 One wireless base station supports multiple PDT-4F at the same time.

The paired method of PDT-4F and base station

- a. switch off wireless base station (disconnect the USB cable)
- b. set the address and channel on PDT-4F.
- c. connect wireless base station (connect USB), normally, the screen will display a reminder of the base station was found. At this time press 'ENT' key and can pair to wireless base station, save config information to wireless base station, you needn't to pair them again in the future. Only when you change wireless channel of PDT-4F, you need to pair again.

4、 Update firmware by wireless function.

III. Appearance & Operation

1、 Wireless Data Terminal



2、 Wireless cable



3、Operation

(1) Keyboard Using:

- * The middle yellow button is **【SCAN】** key,
- * **【ESC】** button could exit any function
- * In the input area, press **【SW】** button could switch input mode, **【F4】** is delete button.
- * **【M1】** is Ensure button as default.

(2) When installing or removing the battery, firstly, please pull the lock of the battery cover to unlock position(left), then pull the lock to the right and lock the cover. Please take out the battery to avoid leakage if not using the device for a long time.

(3) Keep the transparent scanning window glass clean.

(4) The standard 5V mobile phone charger can be used for PDT-4F charging, this only need its output voltage to be 5V and at least 500mA current output.

IV、 Main Technical Parameters

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- 1)、32-bit ARM series RISC CPU.
 - 2)、FLASH memory: 4MB, include all of English font library, the memory available is 3.5M(it has no E-disk function)
 - 3)、Power supply: Polymer lithium battery 1050mA support USB port charging.
 - 4)、Display: 160x128 2.2inch TFT screen, could display 24 bit color, backlight could be adjusted
 - 5)、Standby time: Over more than 6 months (according to the remaining battery);
 - 6)、Support power-off protection, could be turn on & off at any time, as well as support automatic shutdown.
 - 7)、Scan engine parameter:
Light source: White light, red light
Scan Depth: 2-20cm (for 13mil EAN13 barcode)

Barcode width: <20cm

Decoding capability:: QR、Data Matrix、PDF417、EAN13、EAN8、Code39、Code128、interleave 25 codes (IT25)、Code93、Coda bar、UPCA、UPCE、MSI, etc.

8)、Wireless transmission

Maximum transmission distance: 50-100m using 433M wireless data transmission chip.

Wireless frequency:

- 433M, two-way communication
 - Maximum wireless Transmit Power: +10 dB
 - Wireless receiving sensitivity:-102dB
 - Wireless Channel: 32
 - Number of devices per channel: 255
 - Wireless signal strength indicator
- CRC checks for wireless communication,

ensures accuracy of data transmission.

9)、Wireless base station and terminal must in the same channel. One wireless base station is recommended to support five hand-held terminals.

V、Set the Decode Type

Barcode parameter settings need to input a password, the default is 13579.

【1】 Export format of scan-gun mode.

【2】 Export format of data collector mode.

【3】 Export format of direct inventory mode.

Default export format of the USB barcode Scanner is barcode+Enter, could set complex export format via barcode export format.

‘B’ represent barcode , ‘A’ represents the local number(local address provided in the

wireless settings), number represent delimiter, 1-127 is the ASCII code of character, B. 13 means output is barcode + Enter; the B. 13. 13 Means barcode + 2 Enter; A. 58. B. 13 means output is the machine number : Barcode + Enter, 58 is the ASCII value of ‘.’. Common ASCII codes can be found under fourth item of Help.

【4】 Valid barcode length setting:

Valid length of barcode means the valid output length of barcode, the default is 1-50; 8. 13. 15 means only 8, 13 and 15 length barcode output. 15-18 means 15, 16, 17, 18 barcode length output; And 8. 10. 13-16 mean 8, 10, 13, 14, 15, 16 these 6 barcode length output.

VI、 Common faults and approach

	Symptom	Treatment
1	Does not boot	<ol style="list-style-type: none">1、 Replace the battery;2、 Connect the USB cable for power;3、 Hold the 0 key to reset, then enter into the system kernel to check whether it can be managed, if still no response, it is a hardware failure; otherwise updating an application to try again.
2	Laser jet failure prompts after boot	<ol style="list-style-type: none">1、 The laser jet failure, Depot Repair;2、 Due to power shortage. Connect to USB cable for power.

3	No display after boot	<ol style="list-style-type: none">1、LCD screen failure, Depot Repair;2、The user may set the contrast of the LCD screen to unseen proportions, reset.
4	Load file system fail after boot	<ol style="list-style-type: none">1、FLASH file system may be damaged. Electronic disk must be reformatted to solve, methods of operation: press F2 reset or power-up, then go into the electronic disk formatting features, follow the prompts to re-format the electronic disk. This will lose all the files inside the machine;2、Hardware failure, Repair.