

Portable Barcode Data Terminal Low Cost and High Quality

Smart Data Solutions without distance limitation



PDT6C Wireless
Laser Barcode Scanner



PDT6B Programmable
Data collection Terminal



Masterpiece Technology (International) Co., Ltd.

Room 317-318, Building 712, Pengji Industrial Zone, Liantang, Luohu District, Shenzhen 518004, China
Tel.: 86-755-25174100 Fax: 86-755-25174110 Email: sales@mptic.com

PDT-6C

Wireless Laser Barcode Data Terminal



Product Main Features:

- ◆ PDT-6C is a wireless handheld laser barcode terminal which collects data and transmits the real-time data wirelessly. PDT-6C adopts 433MHz wireless technology to transmit the collected data to the wireless base station with maximum distance of up to 100meters. It adopts fast-speed laser scanning engine for data collection in better depth of field and 32-bit ARM CPU for accurate decoding, which is 10 times quicker than normal laser barcode scanner.
- ◆ When there is a temporary breakdown of wireless signal, the terminal allows temporary automatic data saving in the buffer memory, which can save up to 200 data. The saved data are automatically transmitted after recovery of wireless signal.
- ◆ PDT-6C can also scan and save first, then transmit all collected data (up to 30,000 barcode) to the base station wirelessly. The other mode is for inventory-taking which transmits barcode and quantity data to local data system.
- ◆ PDT-6C is with user-friendly keyboard and backlight LCD screen for easy operation and menu browsing. It also allows hand input for damaged or blurred barcode.

Product Highlights:

- ◆ The terminal adopts emulation keyboard, allowing direct data transmission to computer.
- ◆ The wireless base station is with built-in driver and allows direct communication with the computer via USB. It's a plug and play device. No extra driver is required.
- ◆ Six months standby time and 50-100 hours Continuous operating time.
- ◆ Support both online real-time barcode data transmission and offline barcode collection (collect and save on the terminal first), without distance limitation.
- ◆ Save up to 30,000 barcode data in offline working mode and auto save up to 200 barcode data in online wireless transmission working mode during temporary breakdown of wireless signal. The wireless base station is connected with computer via USB. It's a plug and play device, no driver is required.
- ◆ Provide real-time data protection. No data will be lost when powering off the terminal. When the terminal is powered on, the LCD screen automatically resumes to the last display before last powering off.
- ◆ The user can use common file formats such as EXCEL or TXT to receive the data easily in the computer..

Main Functions:

PDT-6C can work in 3 basic modes:

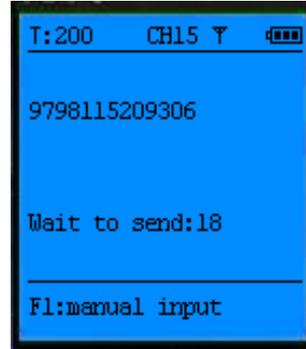
- ◆ Wireless Real-time Barcode Data Scanner
- ◆ Offline Barcode Data Scanner
- ◆ Inventory-taking Data Collector

1) Wireless Real-time Barcode Data Scanner

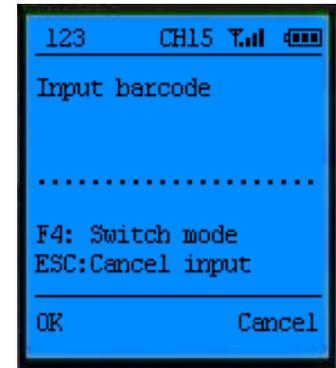
In this mode, the terminal works as a portable laser scanner and collect the barcode data while at the same time transmit the data wirelessly to the wireless base station which is connected with the computer via USB data cable.



Instant Transmission



Auto Data Saving During Temporary Signal Breakdown



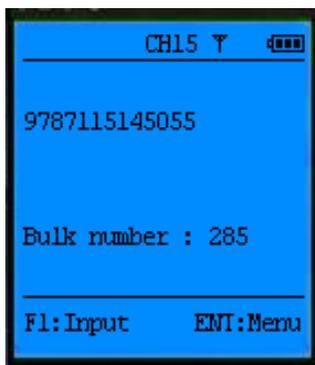
Hand Input for Blurred Barcode

Usually, after being scanned, the barcode data is automatically and immediately transmitted to the wireless base station and computer. The number of "Wait to send" displays as "0", it means that all collected data have been transmitted. The base station uploads the received data to the computer instantly.

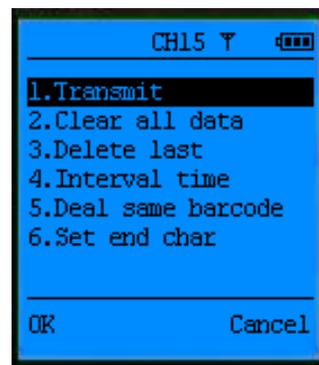
The top of the terminal's LCD screen displays useful information like the quantity of already scanned barcodes, channel number, signal strength and remaining battery.

2) Offline Barcode Data Scanner

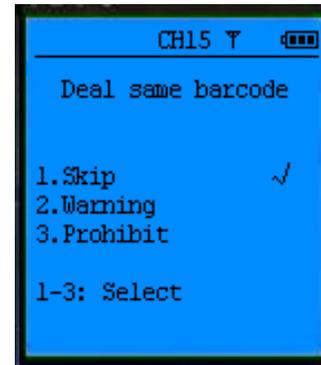
This mode works as offline barcode collector. If there is no need of real time online data transmission, the user can choose to operate the terminal in this mode. The collected data will be saved in the terminal first and can be transmitted to the base station and computer in one lot after collection of all barcode data.



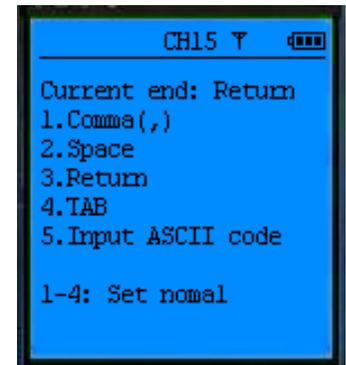
Barcode Capture



Menu Options



Dealing with repeated Barcode

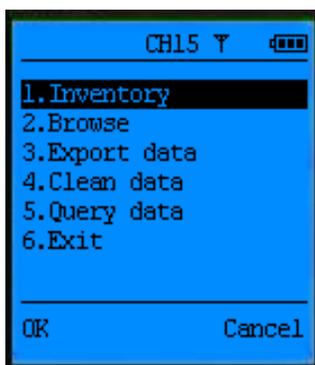


Set middle/end separator

In offline mode, the terminal can save up to 30,000pcs of barcode data.

3) Inventory-taking Data Collector

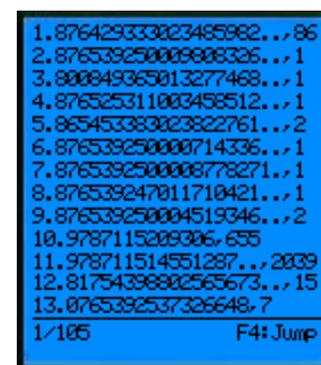
The inventory mode collects barcodes and their quantity. It supports both automatic accumulated quantity and hand input quantity. The user can view and check the collected barcodes and their quantity conveniently on the LCD screen.



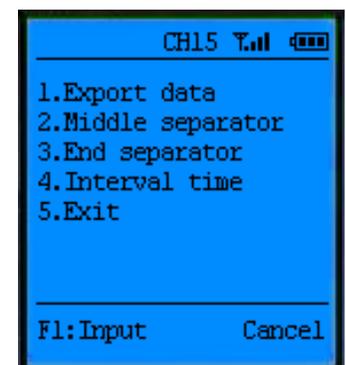
Inventory Menu



Scanning Interface



Browse Barcodes Freely



Data Management

The inventory mode can save up to 10,000pcs barcode data. It works offline while collecting data. The saved inventory data can be transmitted to the base station and computer in one lot after collection of all barcode data.

PDT-6C Wireless Laser Barcode Data Terminal

Technical Data

| | |
|-----------------------------------|--|
| CPU | 32-bit high-speed ARM |
| Flash memory | 2MB |
| Power supply | <ol style="list-style-type: none"> 1) 2pcs AA dry batteries or rechargeable NiMH batteries (best 1600-2400mah NiMH batteries). 2) Supporting USB charging for rechargeable NiMH batteries. 3) With remaining power indicator on LCD display. |
| Screen display | 128x128 FSTN LCD screen, supporting 16-row and 20-line character display |
| Backlight | Blue highlighted LED |
| Terminal size & weight | 165 x 65 x 38 mm, about 150 grams |
| Keyboard | Standard high quality silicon 26-key keyboard |
| Standby time | <p>More than six months (starting from 100% remaining power).</p> <p>Power consumption is lower than most similar devices on the market.</p> |
| Data protection | <p>Data will be saved automatically and will not get lost when the terminal is powered off.</p> <p>The user can switch on/off the terminal freely without damaging the data. After switching on, the screen resumes to the display before last switching off.</p> |
| Power saving mode | Support automatic powering off when not in use. |
| Wireless transmission | <ol style="list-style-type: none"> 1) Frequency: 433MHz. Two-way transmission. 2) Maximum wireless transmitting power: +10dB. 3) Wireless receiving sensitivity: -102dB. 4) CRC verification to ensure stable wireless transmission. 5) With wireless signal strength indicator on the LCD display. 6) USB connection with computer. |
| Scanning depth of field | 3 - 35cm (for 13mil EAN13 barcode) |
| Scanning frequency | 60times / second |
| Light source | 650nm red laser |
| Barcode scan width | Adjustable up to 20cm |
| Decoding capability | EAN13, EAN8, 39 code, 93 code, 128 code, interleave 25 codes (IT25), Codabar, UPCA, UPCE, and etc. |
| Anti-dropping | Height: no more than 1.2 meters |

PDT-6B

Programmable Laser Barcode Data Terminal



Product Main Features:

- ◆ PDT-6B is a handheld laser barcode terminal with USB interface. It adopts fast-speed laser scanning engine for data collection in better depth of field and 32-bit ARM CPU for accurate decoding, which is 10 times quicker than normal laser barcode scanner.
- ◆ PDT-6B allows both offline and online data collection. After offline collection of all barcode data, PDT-6B transmits all data to the computer through the USB cable. It's a plug and play device, no driver is required to install on the computer.
- ◆ PDT-6B is a programmable portable data terminal. Our distributors can easily customize the working mode or fields such as the object's name, barcode, unit price, quantity, location, and etc., up to 64 fields of attributes, to meet the demand of various applications. We can provide the IDE for the customers' own development. For customers that don't know IDE, our software engineer will provide customized service.
- ◆ With built-in keyboard and backlight LCD screen, PDT-6B is able to realize more functions via user-friendly key operation and menu browsing. It also allows hand input for damaged or blurred barcode.

Product Highlights:

- ◆ Six months standby time and more than 120 hours Continuous operating time.
- ◆ Support barcode collection anywhere and anytime, without distance limitation.
- ◆ Support offline working mode. Scan and save first then transmit later to the computer via USB interface.
- ◆ Save up to 40,000pcs of inventory data covering required item attributes in offline working mode.
- ◆ Support real time data collection via USB data cable in the Real-time USB Data Terminal working mode. The user can use common file formats such as TXT or EXCEL to receive the real time data in the computer.
- ◆ The user can use computer to view and save the TXT file covering required item attributes from the terminal in the Inventory-taking Data Terminal working mode and Barcode Data Collector working mode.
- ◆ Easy to develop and customize working modes and item attributes according to specific applications, IDE available.
- ◆ Provide real-time data protection. No data will be lost when powering off the terminal.
- ◆ Easy to develop and customize working modes and item attributes according to specific applications, IDE available.

Main Functions:

PDT-6B can work in 3 basic modes:

- ◆ Inventory-taking Data Terminal (Data including item attributes up to 64 fields)
- ◆ Barcode Data Collector (Data including barcode and quantity only)
- ◆ Real-time USB Data Terminal

1) Inventory-taking Data Terminal

In this mode, the terminal PDT-6B works as a portable laser barcode scanner and collects the data based on an imported and formatted data base which can support up to 64 fields of attributes, including the calculating relationship. The formatted data base can be finished in Office Excel easily.

After collection of all barcode data, the user can choose the "Generate file" on the LCD menu to output a full list of data base covering all required information, such as name, unit price, quantity, total value, location, and etc. The user can view the list or save it on the computer via USB. It's very nice and easy for data management.

As long as the collected data are not cleared from the terminal, the user can check the information of a certain barcode anytime on the terminal's LCD or add new scanned barcodes into the data base.



Main Menu



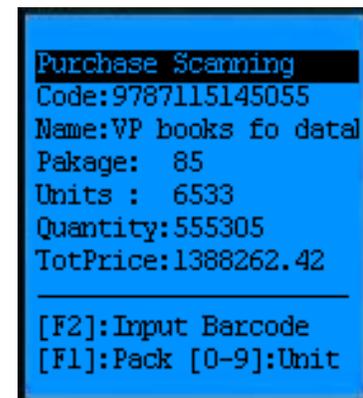
Data Collection



Inventory Menu



Stock Query



Purchasing Scanning

This mode can collect and save up to 40,000pcs of barcode data together with attributes information.

2) Barcode Data Scanner

This mode works as offline barcode capture terminal that collects only barcode numbers and their quantity.

The collected data will be saved in the terminal first and can be transmitted to the computer via USB data cable in one lot after collection of all barcode data.

3) Real-time USB Data Terminal

This mode is an online working mode.

PDT-6B scans the data at the same time when it is connected with the computer via USB data cable. The scanned data is transmitted to the computer instantly.

IDE:

The IDE (Integrated development environment) is available for PDT-6B.

It allows our distributors to develop and customize different working modes and different formats of data base conveniently for different business purposes.

For customers that have no knowledge of IDE, please contact us for the customization.

PDT-6B Laser Barcode Data Terminal

Technical Data

| | |
|----------------------------------|---|
| CPU | 32-bit high-speed SAMSUNG ARM |
| Flash memory | 8MB |
| Power supply | <ol style="list-style-type: none"> 1) 2pcs AA dry batteries or rechargeable NiMH batteries (we recommend 1600-2400mah NiMH batteries). 2) Supporting USB charging for rechargeable NiMH batteries. 3) With remaining power indicator on the LCD display 4) The terminal can work 120 hours continuously with large capacity NiMH batteries. |
| Screen display | 128x128 FSTN LCD screen, supporting 16-row 20-line character display |
| Backlight | Blue highlighted LED |
| Product size & weight | 165 x 65 x 38 mm, about 150 grams |
| Keyboard | Standard high quality silicon 26-key keyboard |
| Standby time | More than six months (with 100% remaining power). Standby current: 100–200uA Power consumption is lower than most similar devices on the market. |
| Data protection | <p>Data will be saved automatically and will not get lost when the terminal is powered off.</p> <p>The user can switch on/off the terminal freely without damaging the data. After switching on, the screen resumes to the display before last switching off.</p> |
| Power saving mode | Support automatic powering off when not in use. |
| Communication | High speed USB port, 250KB/s, no driver is required. |
| Clock | Built-in high accuracy real-time clock |
| Sound | Support programmable audio output and voice prompt. |
| Working temperature | -15°C - 50°C |
| File system | Adopts unique Flash FAT file system, supporting FAT12/FAT16/FAT32 compatible with Windows and providing DBF database operation engine based on industrial standard. |
| Scanning depth of field | 3 - 40cm (for 13mil EAN13 barcode) |
| Scanning angle | 45 - 60 degree |
| Scanning frequency | 60times / second |
| Light source | 650nm red laser |
| Barcode scan width | Adjustable up to 20cm |
| Decoding capability | EAN13, EAN8, 39 code, 93 code, 128 code, interleave 25 codes (IT25), Codabar, UPCA, UPCE, and etc. |
| Anti-dropping | Height: no more than 1.2 meters |
| Programming Extensions | <p>Can customize different working mode and output required information in the computer.</p> <p>C language programming environment and Private development IDE available.</p> <p>Using C language for the second development.</p> <p>Can be updated via the USB cable.</p> |