LP-006D

Multi-functional Industrial PDA

User Manual

Shenzhen Light Pioneer Technology Co., Ltd

Guide

Thank you for choosing LightPioneer’ s multi-functional industrial Handheld Terminal LP-006D. To provide you the high quality experience, this device was designed on the basis of LightPioneer’ s high technology and standard. This user manual is to help the users to quickly understand the product’ s features and how to use it.

Chapter 1, Physical Construction Of the Handheld Terminal

.Chapter 2, Start To Use

2.1 Check the packing list

Handheld terminal * 1unit;

Battery *1piece;

Dedicated dc power adapter*1piece;

Warranty card * 1piece.

Base kit (including power adapter and USB cable) * 1unit(Optional);

2.2, install SIM card/ PSAM card / battery.

When you want to use GPRS function, please prepare a SIM card. When UMTS or HSDPA service is needed, please prepare PSAM card.

How to install:

a, when the Handheld terminal is powered on, press the power off button or touch the icon [⏻] on main menu, to ensure the Handheld terminal is powered off.

Unscrew the locking screw, take off battery.

b, Open the card slot, insert the SIM card (PSAM card) into the slot, keep golden fingers down forward, ensure the card is installed properly, close the card slot.

c, install the battery.

2.3 Power On / Off

Press the On/Off button on front keyboard for 3 seconds to boot the device, device enter standby mode as showed in Pic; slide right to enter the main menu .

Press the On/Off button for three seconds to turn off the device.

2.4 Battery recharging

When using the terminal at first time, please fully recharge the battery with DC adapter or base.Both DC adapter and USB cable can be used for recharging the battery.

Note:

Please do use the DC adapter and USB cable in the packages provided by the manufacturer. Using unidentified adapters or cables may cause battery explosion or damage your device.

Prompt:

Low battery status will be displayed on the LCD with warning sounds when the battery is low. Auto power-off will be occurred when the battery is too low. If battery is exhausted, please recharge the terminal for a few minutes before trying to turn on the terminal.

Use adapter to recharge the handheld.

Note:

- Improper connection may cause serious damage to the charger.
- Plug the charger into the standard power outlet.

Prompt:

1. It’ s normal that the device will heat up during charging.
2. When battery is fully charged, disconnect the device and power adapter. Remove the adapter from AC power socket.

To save battery consumption

If Auto-sync, Bluetooth, or WLAN functions are operating, battery consumption would be faster. For saving battery power, please turn off unnecessary programs. Or adjust brightness and time of the background light, switch to sleep mode through touch [⏻] icon when the device is not used.

2.5Install memory card

TF card is needed if want to store more multi-media files. MicroSD™ or microSDHC™ card can

be used to extend the user memory, maximum up to 32GB (It depends on TF card manufacturers and sorts). Please use famous brand TF card as some brand may incompatible.

Note:

- Use incompatible card may damage the TF card or or cause the loss of data inside.
- The device solely support memory card only with FAT file construction format. For other types memory card, the device will require card formatting or indicates un-recognized memory card. If you insert TF card with Non-FAT file format, it will indicate unrecognized TF card or require you to erase all content and settings
- Frequent write and delete data will shorten the lifespan of the TF card.

Installation steps:

1. Remove the battery cover.

2. Open SIM card slot first, and open memory card slot, install the TF card then close the cover.

3. Insert the TF card into the slot and lock in place.

4. Put the battery back.

2.6 Memory card format

Formatting memory card on PC may cause card incompatibility with the terminal. Please only format the card on the terminal.

Open APP list on main menu, choose Setting→Storage→Uninstall SD card→ Confirm→ format SD card→Delete all.

Note: Please backup all data before formatting the SD card. The manufacturer's warranty service does not include data loss due to user operation.

Chapter 3 Functions & Applications Introduction

3.1 Application

- Logistics industry for containers management, warehouse management, inventory checking etc.;
- Smart vehicle management;
- Automatic production management;
- Electric ticket checking, and person ID card checking,etc.

3.2 Main functions

➢ **UHF (860~960MHz) RFID reading** (optional)

UHF RFID reading : can read the EPC code of UHF RFID tags that comply with ISO18000-6C protocol, and write/modify the EPC code. The supported frequency range is 860-960MHz.

➢ **Bar code scanning** (optional)

Can scan one-dimensionalbarcode & two-dimensional barcode (QR code) with unlimited times
QR code:PDF417.QR Code(Model 1/2) ;
DataMatrix(ECC200.ECC000,080.100.140),Aztec,Maxiccde,etc;
One-dimension code：Code128.EAN-13,EAN-8,Code39,UPC-A,UPC-E,Codaba,
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➢ **A-GPS** (Optional)

To realize global coordinates positioning through built-in A-GPS module & antenna.

➢ **WIFI/Bluetooth**

Built-in WIFI(IEEE 802.11a/b/g/n/ac),built-in bluetooth class v2.1+EDR bluetooth v3.0+HS bluetooth v4.0

- **4G/GPRS**(default WCDMA)

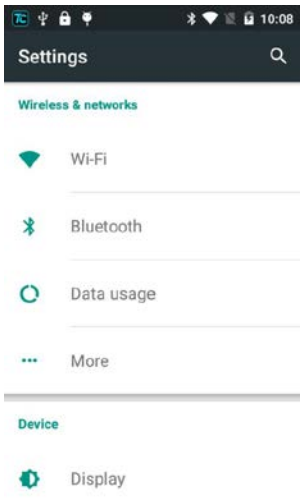
4G/GPRS：built-in 4G module, support WCDMA/GSM,etc.

Chapter 4, How to use

4.1 Main Interface Introduction

When the device is powered on, you will see the main interface as in below picture.

Touch the "settings" icon on main menu, you can make setting to WiFi,Bluetooth, Data Usage etc. as in below picture.



Note：LP-006D also have other function like GPS, photoing,music and telephone,etc.

Icons introduction:

Icon	Definition
	No signal
	Signal strength
	GPRS network connected
	EDGE network connected
	UMTS network connected
	WLAN available
	WLAN connected
	Bluetooth available
	Bluetooth earphone connected
	GPS available
	Upload data....
	Download data....
	PC connected
	USB network share started
	WLAN hotspot
	SMS
	Alarm clock
	Activity noticifications

	Mobile roaming (out of normal service area 外)
	Silent mode
	Vibration mode
	Flight mode
	Battery volume
10:00	Current time

4.2 UHF RFID Reading

RFID Reading

4.2.2 UHF RFID Reading

Support reading tags which comply with ISO18000-6C protocol. Can read and write tag’ s EPC and user memory..

Click the UHF APP icon on main menu, to enter UHF tag reading interface, select the operation to be done and enter corresponding interface.

4.3 Bar code scan

On the main menu, click barcode scan icon, enter into barcode scan interface (as in above left picture). There are two optionals: trigger(start), back to main menu.

Trigger means starting scanning of QR code or One dimension code ;

Back means return to main screen and exit the current bar code scan window. It equals to back button of keyboard.

4.4 GPS

This function can get the correct position and display it on the electric map. When user set up the destination, system can automatically schedule the routine quickly.

The GPS only can be used in outdoor. Please don’ t use it indoor.

How to use: Select the Settings on main menu , click Location, turn it on. Please note: system may need 10 mins or longer time to get the GPS signal in first time use. After that, the GPS signal can be caught quickly.

4.5 WIFI/Bluetooth

WIFI：built-in WIFI module(IEEE 802.11a/b/g/n/ac)，and can wireless connect the network.

Bluetooth：builtin bluetooth module. Can communicate with otherbluetooth devices(distance >10m if no obstacles)

4.64G/GPRS

4G/GPRS（Option）：built-in 4G module. Can insert SIM card for GSM/GPRS/4G transmitting.

4.7 SMS or MMS

5.7.1, Sending SMS

Touch the icon  on main interface, select recipient, edit the message and send.

5.7.2 Sending MMS

Touch  on main interface, select recipient, touch [ ] to add topic, edit the text message, select  to add video/pictures/voice recording. Send the message.

4.8 Photo shooting

You can use the camera icon on main interface to take photo or video.

Chapter 5 Using environment

Operating temperature: -20℃~+55℃；

Store temperature: -25℃~+70℃；

Humidity: 5%~95% RH；

IP grade: IP65；

Drop test: 1.2meters (4 feet) dropsurvival.

Chapter 6TECHNICAL SUPPORT

Please call our support line：+86-755 2899 5422

Chapter7APPEDEX

PACKING LIST

ITEM	QTY	NOTE
Handheld terminal	1	
Battery	1	
Dedicated dc power adapter	1	DC+5V
Warranty card	1	
Base kit (including power adapter and USB cable)	1	Optional

Letter to Customers

Since our aim is to continuously improve our products for better user experience, we may modify the product characteristics, composition and design of circuits without given notifications. Thus the real product may be not in accordance with this manual. Generally, we will provide timely amendments to this manual but can not ensure. We apologize for the inconvenience caused and appreciate your understanding.

FCC Statement

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

SAR Information Statement

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. * Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 0.201W/Kg and when worn on the body, as described in this user guide, is 0.435W/Kg(Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). The maximum scaled SAR in hotspot mode is 0.438W/Kg.The maximum scaled SAR in extremity mode is

0.857W/Kg.While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RFexposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/ oet/fccid after searching on

FCC ID: 2AOJULP006DAdditional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Asso-ciation (CTIA) web-site at http://www.wow-com.com. * In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a sub-stantial margin of safety to give additional protection for the public and to account for any variations in measurements.

Body-worn Operation

This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 10mm must be maintained between the user’ s body and the handset, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.