Industrial Intrinsically safe EX handheld terminal EX PDA500i product instruction manual



DORLAND System Control Technology Co.,Ltd

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Chapter 1 Safety and Maintenance

Ordinary PDAs cannot be used in hazardous locations that may cause explosions because they cannot meet the explosion protection requirements in hazardous locations.Areas that may cause explosion include: fuel areas (such as under the deck of a ship, fuel or chemical transport and storage facilities), and places where the air contains chemicals or particles (such as particles, dust, or metal powder), such as gas stations. Depots, etc. Industrial Intrinsically safe EX handheld terminal EX PDA500i manufactured by Beijing Dorland,After being certified by the national explosion-proof certification organization,Meets GB3836.1-2010 《Explosive environment Part 1：equipment common enquiries》and GB3836.4-2010《Explosive environment Part 4：Equipment protected by intrinsically safe "i"》standard requirement. Suitable for use in areas 1 and 2 where explosion hazards occur.

Basic parameters

Explosion-proof sign：Ex ib IIC T4 Gb
Explosion proof number：CCRI 17.2076
Protection level：IP65

Safe use warning

Only strictly follow the instructions in this section.The industrial Intrinsically safe EX handheld terminal EX PDA500i is guaranteed.Before use, please be sure to read this section carefully.If you have questions or do not understand, please consult the manufacturer immediately.

Safe use rules

The safe use of Industrial Intrinsically safe EX handheld terminal EX PDA500i is based on the user's compliance with the following rules of use.

a) The battery provided by the mobile phone is a battery specially produced by the manufacturer, and only the original battery meets the intrinsic safety requirements.Any other non-original battery will cause the explosion-proof performance of the phone to fail. So be sure to use the original battery. If you need to replace the battery, please contact Beijing Delan.Battery is Ex Battery 010 6000mAh Explosion-proof polymer battery.

b) Charging the phone battery must be done in a safe area. And you must use the original charger. The maximum charging voltage is 4.3V.

c) It is forbidden to replace batteries for mobile phones in explosion hazardous locations.

d) It is forbidden to be used in zone 0 of dangerous explosion places.

e) It is forbidden to use earphones, data cables and other plug-in devices and Use flash functionin explosion hazardous locations.

f) It is forbidden to use the mobile phone vibration function in explosion hazardous locations.

g) Keep away from high temperatures when using the phone.

Failure and damage handling

Any factor causing the phone may lose its intrinsic safety performance,please stop using it in a dangerous place. It is recommended to send the phone back to the manufacturer for testing

Conditions that may cause the explosion-proof performance of mobile phones to fail include the following:

The phone case is damaged;

the explosion-proof mark cannot be identified;

Stored in areas that do not meet storage conditions; damaged in transit;

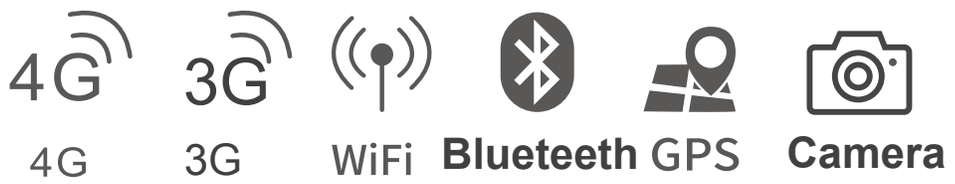
Other functions fail.

Chapter 2 Function illustration




Scanning head
Camera
Card reading area
Speaker
Lock
Lock
DORLAND Ex PDA 500i EX
Industrial Intrinsically Safe Handheld Terminal
Ex-mark : Ex ib IIC T4 Gb
Certification : CCRI 17.2076
IP Grade : IP65
VBATT : 3.7VDC
Battery capacity : 6000mAh
Don't disassemble the phone and replace
battery in dangerous areas
Beijing Dorland System Control Technology Co., Ltd.
DORLAND
Wristband mouth

Basic function parameters



1、Size：170*85*23mm

2、Color screen：5 inch 720 * 1280（Gorilla glass screen）

3、Communication： Unicom/CT 4G、3G、2GFree switch

4、The internet：WiFi、Blueteeth

5、Battery：4500mAh

Chapter 3 Installation and Charging

3.1 Battery Removal and Installation

Battery Removal and Installation

Note: Before removing the battery, be sure to turn off the device and remove the external power supply. Never remove the battery directly when it is turned on, otherwise the device may be damaged.

3.2 Charge the battery

Plug in the charger and plug the charger's connector into the device's DC jack.

Note: Be careful not to forcibly pull out the charging connector. This may damage the device or the charger.

The battery that came with your device must be fully charged before use.

Do not remove the battery while charging

If the battery runs out, the device turns off automatically.

3.3 Memory card installation and removal

Memory card installation

Please follow the steps below to install：

1、Remove battery back cover and battery, insert according to direction

2、To remove the memory card, remove it according to the following steps:

Remove the battery back cover and battery and pull out the memory card

Note: Please turn off the computer before uninstalling the memory card. Otherwise, the files transferred to the device may be lost or the device may be abnormal.

3.4 How to boot and shut down

Make sure the battery is installed. Turn on the power, hold down the power button until the display shows a boot screen

Chapter 4 Device key functions

4.1 Key Description

Press the key	Description
Power button	A short press during the power-on state causes the device to go to sleep. Long press to bring up the shutdown menu; Short press no response in the off state, long press start
Menu	Can pop up option menu

Press the key	Description
Home key	The non-standby interface short press to return to the standby interface, long press will bring up the interface of the recently run application. In the client application, the Home key can be used as a function key (scan, card reading, etc.)
Return key	Return to the previous level
volume button	Adjust the volume

Chapter 5 Optional function guide



5.1 1D barcode

See the device built-in demo, if the customer needs secondary development please contact technical support engineers.The 1D code can scan all barcodes in the national standard, but please pay attention to the clarity of the barcode. Please don't aim the laser at people's eyes and it will damage the eyes.

5.2 2D barcode

See the device's built-in demo. If the customer needs secondary development. please contact technical support engineers. The QR code can scan all barcodes in the national standard, but please pay attention to the clarity of the barcode.

5.3 HF（13.56M）

See the device's built-in demo. If the customer needs secondary development, contact technical support engineers.

5.4 UHF（915M）

See the device's built-in demo. If the customer needs secondary development, contact technical support engineers. UHF read distance is about 3 meters.

5.5 Fingerprint recognition

See the device's built-in demo. If the customer needs secondary development, contact technical support engineers. There are optional fingerprint and biometric fingerprint modules of the Ministry of Public Security, both of which are capacitive and inductive.

5.6 ID identification

Assemble the security encryption module of the Ministry of Public Security's second generation certificate. If the customer needs secondary development, contact technical support engineers.

5.7 Other customization features

Can be customized ID reading, fingerprint reading, infrared temperature measurement, 433M short-range wireless communication and other functions.

Chapter 6 Use the function table

Menu	Description
Email	Used to receive and send email
Calculator	For scientific calculations
Contacts	Find the contact on the device, click the tab icon to switch to the group, collection interface.
Browser	Support browsing webpages and other operations

Menu	Description
Sound Recorder	Can record music or other sound
Calendar	This feature makes it easy for you to check the date
Settings	Can set up different functions in the device to achieve
Clock	Set alarm
Gallery	You can see pictures and videos after entering
File manager	Check the contents of the SD card
Downloads	Check the current download of the local resources, etc.
Camera	After entering can take pictures and video and other operations
Music	Play MP3 and other music files

Chapter 7 Enter text

This device has provided you with an input method. You can download other input methods for installation and use. After the input method is selected, you can click to switch the input mode according to the icon of the input method interface; input the number/Chinese/symbol/letter according to your needs. You can also install other input methods yourself.

Chapter 8 common problem

If any problem occurs during the use of the equipment, please refer to the following clauses to resolve it. If the problem still exists, please contact the dealer or the maintenance company immediately.

—Can't charge

Please confirm whether the battery has electricity and confirm whether the battery contacts are in good contact.

—Device can not boot

There are three possibilities: 1. The device charger is not working properly; 2. The ambient temperature is not suitable; 3. The contact is bad.

—Unable to scan bar code

1、Scanning head can not shine, hardware damage;

2、Confirm whether the bar code is a national standard code;

3、Confirm whether the barcode is damaged;

—HF cannot read and write cards

Please confirm whether the card type is correct, then confirm whether the card reading position is correct. In addition, please contact technical support to confirm if the hardware is damaged.

—UHF cannot read and write cards

Please confirm whether the card type is correct, then confirm whether the card reading position is correct. In addition, please contact technical support to confirm whether it is a hardware problem.

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