DORLAND®

Industrial Intrinsically Safe Tablet PC/Pad
Quick User Manual

Ex NB07S

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Summary

Dear user, thank you for using the products of Beijing Dorland System Control Technology Co., Ltd; In order to let you get familiar with the product more quickly, please refer to the user manual if you encounter problems during use. This document mainly introduces the body interface and system instructions of the Ex NB07S tablet computer, so that users can quickly understand how to use the product through picture instructions. When you encounter problems that cannot be solved in the process of use, please contact the technical personnel of Beijing Dorland to deal with them. Thank you for your trust.

Items in the box

Please confirm whether your laptop box contains the following items:

◆Ex NB07S tablet

◆Charger

◆Quick operation manual

◆Explosion proof certificate

Safety instructions

Ordinary tablet cannot meet the explosion-proof requirements in dangerous places, so they are not allowed to be used in dangerous places that may cause explosion. The areas that may cause explosion include: fuel area (such as under the deck of a ship, transportation and storage facilities for fuel or chemical products), places with chemical substances or particles (such as particles, dust or metal powder) in the air, such as gas stations, oil depots, etc. The Industrial Intrinsically Safe tablet PC/PAD Ex NB07S produced by Beijing Dorland has been certified by the national explosion-proof certification authority, and meets the requirements of GB3836.1-2010 explosive environment Part 1: General requirements for equipment, GB3836.4-2010 explosive environment Part 4: equipment protected by intrinsically safe "i" and GB12476.1-2013 electrical equipment for combustible dust environment Part 1: General requirements and GB12476.4-2010 / IEC61241-11: 2005 electrical equipment for combustible dust environment Part 4: intrinsic safety "iD" standard requirements. It is suitable for zone 1, zone 2, zone 21 and zone 22 of explosion hazard field.

1.1 Basic parameters

Explosion-proof grade: Ex ic IIB T5 Gc

Certification No.: SYEx22.10174X

Protection grade: IP65

1.2 Warning for safe use

Only by strictly following the instructions in this section can the safety performance of Ex NB07S, an intrinsically safe industrial explosion-proof tablet PC, be guaranteed. Be sure to carefully read the instructions in this section before use. In case of any doubt or incomprehension, please consult the manufacturer immediately.

Please turn off the product near the electronic equipment with high-precision control, otherwise it may cause electronic equipment failure.

1) Equipment that may be affected by this product include hearing aids, pacemakers, fire alarms, automatic doors and other automatic control equipment. Users of electronic medical aids shall confirm the impact of radio waves on the equipment with the service center of the equipment.
2) The pacemaker manufacturer recommends that the

distance between the product and the pacemaker should be at least 15cm to avoid potential interference of the product to the pacemaker. When carrying the product, it should not be put in the chest bag; The ear on the side different from the one wearing the pacemaker should be used to answer the phone to reduce the potential factors causing interference.

3) Please do not bring this product to the operating room, ICU or CCU.
4) In medical places where the use of this product is prohibited, please follow the instructions and regulations of the place.
5) Please pay attention to the settings of the ringing tone, volume and vibration of the product, so as not to affect patients with heart disease.
6) In flammable and explosive areas, do not take out, install or charge the battery to avoid explosion or fire.

1.3 Rules for safe use

The safe use of the intrinsically safe industrial explosion-proof tablet Ex NB07S is based on the user's compliance with the following rules.

1) The battery of this product is specially produced by the manufacturer. Only the original battery meets the intrinsic safety requirements. Any other non original battery will lead to failure of explosion-proof performance. Therefore, please be sure to use the original battery. If you need to replace the battery, please contact Beijing Delan. The battery is Ex Battery 065 2800 mAh explosion -proof polymer battery.
2) The battery must be charged in a safe area. The original charger must be used. The maximum charging voltage is 12.6V.
3) It is strictly forbidden to replace the battery in the explosion hazardous area.
4) This product cannot be used in Zone 0 of explosion hazardous areas.
5) It is strictly prohibited to use earphones, data cables and other plug-in devices in explosive hazardous areas.

6) It is strictly prohibited to use the vibration function in explosive hazardous areas.
7) Keep away from hot areas when using this product.

1.4 Failure and damage handling

The computer may lose its intrinsic safety performance due to any factor. Please stop using it in dangerous places. It is recommended to send the computer back to the manufacturer for inspection. The following conditions may cause failure of explosion-proof performance of the computer:

1) The housing is damaged
2) Store in places that do not meet the storage conditions
3) Damage during transportation
4) The explosion-proof sign cannot be identified
5) Other functions fail

1.5 Precautions

a) Please keep the product away from the magnetic equipment. The radiation of the product may erase the information stored on the magnetic equipment.

b) Please do not place this product, battery and charger in the appliance with strong electromagnetic field, such as electromagnetic cooker and microwave oven, otherwise it may cause circuit failure, fire or explosion.

c) Please do not place this product, battery and charger in high temperature area and low temperature area, otherwise it may cause failure, fire or explosion of this product, battery and charger.

d) When charging the battery, try to keep the ambient temperature of the battery between - 20℃ and 60℃. The ambient temperature for battery storage shall be kept between - 30℃ and 70℃. If the battery is placed in an overheated or super cooled area, the capacity and service life of the battery may be reduced. When the temperature is lower than 0℃, the performance of the battery is particularly limited.

e) When the product touches the ear, do not turn on or off the

machine to avoid affecting human health.

f) To comply with RF leakage regulations, when you wear this product or use its data function, please keep the distance between the antenna and your body at least 1 inch (2.5cm). The signal interference of this product may affect the adjacent TV, radio or computer.

g) Please comply with the international regulations on RF radiation and use the product accessories designated by our company.

h) When using this product, please abide by relevant laws and regulations, and respect the privacy and legal rights of others.

i) Before cleaning and maintenance, please shut down the machine. If the charger is still connected at this time, you need to unplug the charger from the power socket and disconnect the charger from the product to avoid electric shock, battery or charger short circuit.

j) Do not disassemble this product without authorization. Only authorized organizations can repair this product.

Monstrans de droit

a) It is strictly forbidden to copy, transfer, distribute and store any content in this User Manual in any form without the prior written permission of the Company;

b) Based on the principle of continuous improvement and development, the Company reserves the right to modify any product described in this manual without prior notice;

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e) The pictures quoted in this manual may be different from the actual pictures. Please refer to the actual pictures.

1. Getting the Computer Running

Connecting to AC Power

You must use AC power when starting up the computer for the very first time

1. Open the DC port waterproof plug (Slide the port switch to the left to unlock)）

2. Plug the DC cord of the AC adapter to the power connector of the computer.

3. Plug the female end of the AC power cord to the AC adapter and the male end to an electrical outlet.

4. Power is being supplied from the electrical outlet to the AC adapter and onto your computer. Now, you are ready to turn on the computer.

2. Turning On and Off the Computer

2.1 Turning on

1. Open the top cover by pulling the cover latch and lifting up the cover. You can tilt the cover forward or backward for optimal viewing clarity.

2. Press the power button( ) . The Windows operating system should start.

2.2 Turning off

When you finish a working session, you can stop the system by turning off the power or leaving it in Sleep or Hibernation mode:

To...	Do this...
Power off (Shutdown)	Click →[Power]→[Shut down].
Sleep	Use one of these methods: ● Press the power button ● Close the top cover. ● Click →[Power]→[Sleep]。
Hibernate	By default, this option is not shown in the Start menu. If you want to use the feature, set up accordingly in Windows settings.

* “Sleep” is the default result of the action. You can change what the action does through Windows settings.

3. Taking a look at the computer

3.1 Front components

Ref	Component	Description
❶	Top Cover Latch	Locks the top cover.
❷	Stereo Speaker	Sends out sound and voice from the computer.
❸	Handle	Provides a convenient way to carry the computer.

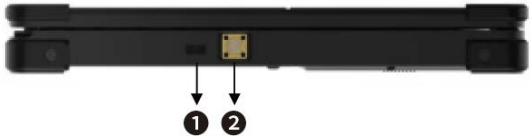
3.2 Rear components

Ref	Component	Description
❶	RS232 Serial Connector	Connects a serial mouse or serial communication device
❷	RJ45 Connector	Connects the LAN cable
❸	USB3.0 Port	Connects a USB device
❹	HDMI Connector	Connects a HDMI monitor or TV set

3.3 Right-side components

Ref	Component	Description
❶	USB3.0Port	Connects a USB device
❷	USB3.0Port	Connects a USB device
❸	Type-cPort	Connects a Thunderbolt™ or a Type-c device.
❹	3.5mm Connector	Connects a USB device
❺	DCPower Connector	Connects the AC adapter.

3.4 Left-side components



REF	Component	Description
❶	Security Lock	A security lock to lock the computer on a fixed object.
❷	Reserved external antenna port	Connect an external GPS antenna.

3.5 Top-open components

Ref	Component	Description
❶	Camera	Used to realize the camera function.
❷	LCD Screen	Displays the output of the computer. May include the optional touch screen feature.
❸	Keyboard	Serves as the data input device of the computer.
❹	Microphone	Receives sound and voice for the computer.

❺	Touchpad	Serves as the pointing device of the computer.
❻	Indicators	
	POWER	After the computer is turned on, it shows blue.
	Battery1	Lights red when the battery is being charged.Blinks red when the battery is removed.
	Battery2	Lights red when the battery is being charged.Blinks red when the battery is removed.
	Caps Lock	Lights red when the caps is locked
❼	Fingerprint Scanner	Serves as the fingerprint verification, preventing unauthorized access to your computer.
❽	P Button	It is the pointing device of the computer.
❾	Power Button	Turns the power on or off. (Sleep mode by default)

3.6 Bottom components

Ref	Component	Description
❶	SSD module	Inside is solid-state drive , which is a computer storage device. Note: This is a non-hot-pluggable device. Do not remove the device without shutting down.
❷	Battery Latch	Locks the main battery pack in place.
❸	Battery Latch	Locks the main battery pack in place.

4. Using the keyboard

4.1 Typewriter keys

Typewriter keys are similar to the keys on a typewriter. Several keys are added such as the Ctrl, Alt, Esc, and lock keys for special purposes.

The Control (Ctrl) / Alternate (Alt) key is normally used in combination with other keys for program-specific functions.

The Escape (Esc) key is usually used for stopping a process. Examples are exiting a program and canceling a command. The function depends on the program you are using.

4.2 Cursor-control keys

Cursor-control keys are generally used for moving and editing purposes.

NOTE: The word “cursor” refers to the indicator on the screen that lets you know exactly where on your screen anything you type will appear. It can take the form of a vertical or horizontal line, a block, or one of many other shapes.

4.3 Numeric keypad

A 10-key numeric keypad is embedded in the typewriter keys as shown next:

4.4 Function keys

On the top row of the keys are the function keys: F1 to F12. Function keys are multi-purpose keys that perform functions defined by individual programs.

4.5 Fn key

The Fn key, at the lower left corner of the keyboard, is used with another key to perform the alternative function of a key. To perform a desired function, first press and hold Fn, then press the other key.

4.6 Windows keys

The Windows Logo key opens the Start menu and performs software specific functions when used in combination with other keys.

4.7 Hot keys

Hot keys refer to a combination of keys that can be pressed any time to activate special functions of the computer. Most hot keys operate in a cyclic way. Each time a hot key combination is pressed, it shifts the corresponding function to the other or next choice.

You can easily identify the hot keys with the icons imprinted on the keytop.

The hot keys are described next.

Key	Description
FN+Esc	Switches the keyboard backlight off or on
FN+F1	Serves as the sleep button that you can define with Windows' Power Options.
FN+F2	Decreases the LCD brightness.
FN+F3	Increases the LCD brightness.
FN+F4	Switches the system sound output off (mute) or on
FN+F5	Decreases the sound volume.
FN+F6	Increases the sound volume.

Key	Description
FN+F7	Open Windows Quick Search.
FN+F8	Turn on online voice recognition.
FN+F9	Open the computer connection device interface, including wireless displays and audio devices.
FN+F10	Open the Windows settings interface.
FN+F11	Quick play and pause
FN+F12	Windows screen capture
FN+space bar	Adjust the brightness of the backlit keyboard. (Including 3 levels)

5. Using the touchpad

CAUTION: Do not use a sharp object such as a pen on the touchpad. Doing so may damage the touchpad surface.

NOTE :

- You can pressFn + Escto toggle the touchpad function on or off.
- For optimal performance of the touchpad, keep your fingers and the pad clean and dry. When tapping on the pad, tap lightly. Do not use excessive force.

The touchpad is a pointing device that allows you to communicate with the computer by controlling the location of the pointer on the screen and makingselection with the buttons.

The touchpad consists of a rectangular pad (work surface) and a left and right buttons. To use the touchpad, place your forefinger or thumb on the pad. The rectangular pad acts like a miniature duplicate of your display. As you slide your fingertip across the pad, the pointer (also called cursor) on the screen moves accordingly. When your finger reaches the edge of the pad, simply relocate yourself by lifting the finger and placing it on the other side of the pad.

Here are some common terms that you should know when using the touchpad:

Term	Action
Point	Move your finger on the pad until the cursor points to the selection on the screen.
Click	Press and release the left button. –or– Tap gently anywhere on the pad.
Double-click	Press and release the left button twice in quick succession. –or– Tap twice on the pad rapidly.
Drag and drop	Press and hold the left button, then move your finger until you reach your destination (drag).

	Finally, release the button (drop) when you finish dragging your selection to the destination. The object will drop into the new location. –or– Gently tap twice on the pad and on the second tap, keep your finger in contact with the pad. Then, move your finger across the pad to drag the selected object to your destination. When you lift your finger from the pad, the selected object will drop into place.

TABLE NOTE:

If you swap the left and right buttons, “tapping” on the touchpad as an alternative method of pressing the left button will no longer be valid.

6. Using network and wireless connections

6.1 Using the LAN

The internal 10/100/1000Base-T LAN (Local Area Network) module allows you to connect your computer to a network. Plug one end of the network cable into the RJ45 port of the computer, and plug the other end into the network hub.

6.2 Using the WLAN

The WLAN (Wireless Local Area Network) module supports IEEE 802.11ax.

6.21 Turning On/Off the WLAN Radio

To turn on the WLAN radio:

Click → [Settings] → [Network & Internet] → [WLAN] , Slide the WLAN switch to the [On] position.

To turn off the WLAN radio:

You can turn off the WLAN radio the same way you turn it on. If you want to quickly turn off all wireless radio, simply switch on Airplane mode. Click → [Settings] → [Network & Internet] → [Airplane mode], Slide the Airplane Mode switch to the [On] position.

6.22 Connecting to a WLAN Network

1. Make sure that the WLAN function is enabled (as described above).
2. Click the network icon in the lower right of the task bar.
3. In the list of available wireless networks, click a network, and then click Connect.
4. Some networks require a network security key or passphrase. To connect to one of those networks, ask your

network administrator or Internet service provider (ISP) for the security key or passphrase.

For more information on setting a wireless network connection, refer to Windows online help.

6.3 Using the Bluetooth feature

The Bluetooth technology allows short-range wireless communications between devices without requiring a cable connection. Data can be transmitted through walls, pockets and briefcases as long as two devices are within range.

6.31 Turning On/Off the Bluetooth Radio

To turn on the Bluetooth radio:

Click →[Settings] → [Devices] → [Bluetooth] , Slide the Bluetooth switch to the On position.

To turn off the Bluetooth radio:

You can turn off the Bluetooth radio the same way you turn it on.

If you want to quickly turn off all wireless radio, simply switch on Airplane mode.

6.32 Connecting to another Bluetooth Device

1. Make sure that the Bluetooth function is enabled (as described above).
2. Make sure that the target Bluetooth device is turned on, discoverable and within close range. (See the documentation that came with the Bluetooth device.)
3. Click →[Settings] → [Devices] → [Bluetooth]
4. Select the device you want to connect from the search results.
5. Depending on the type of Bluetooth device that you want to connect to, you will need to enter the pertinent information.

For detailed information on using the Bluetooth feature, see Windows's online Help.

7. Using the fingerprint scanner

CAUTION:

For optimal performance, both the scanning surface and the finger should be clean and dry. Clean the scanning surface when needed. You can use adhesive tape to remove dirt and oil from the scanner surface.

It is not recommended that you use the fingerprint scanner in a belowfreezing temperature. The moisture on your finger can freeze to the scanner's metal surface when you touch it, resulting in a failed operation.Besides, touching freezing metal with your finger can cause frostbite.

The fingerprint scanner (if your model has the feature) provides a strong authentication mechanism based on fingerprint recognition. You can log on to Windows and dismiss the lock screen with an enrolled fingerprint instead of a password.

CAUTION :

You must create a user account and password in Windows before you can create a fingerprint.

The fingerprint login process will take some time, because the system needs to complete the check of the hardware device and security mechanism before starting the fingerprint sensor.

Enrolling a Fingerprint

1. Click →[Settings] → [Accounts] → [Sign-in options].
2. On the right side under Fingerprint, click Set up.
3. Follow the onscreen instructions to complete.

8. Using the touch screen (optional)

CAUTION:

Do not use a sharp object such as a ballpoint pen or pencil on the touch screen. Doing so may damage the touch screen surface. Use your finger or the included stylus.

Select models have a capacitive touch screen. This type of touch screen responds to objects that have conductive properties, such as fingertips and a capacitive-tipped stylus. You can navigate on the screen without using a keyboard, touchpad, or mouse.

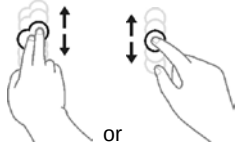
The following table shows how you use the touch screen to obtain equivalent mouse functions.

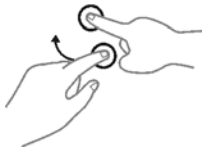
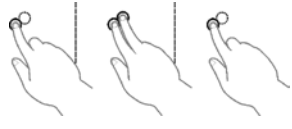
Term/Action	Equivalent Mouse Function
Tap: Touch the screen once.	Click/Point
Double-tap: Touch the screen twice rapidly	Double-click
Tap and hold: Tap and hold until a popup menu appears	Right-click
Drag: Hold the finger on the screen and drag across the screen until reaching your destination.	Drag

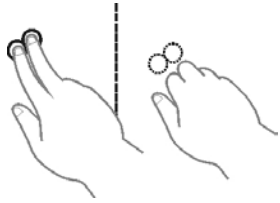
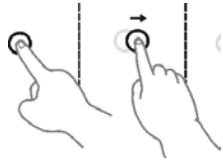
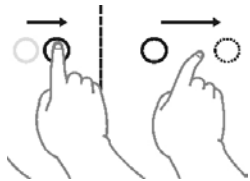
8.1 Using multi-touch gestures

You can interact with your computer by placing two fingers on the screen.

The movement of the fingers across the screen creates "gestures," which send commands to the computer. Here are the multi-touch gestures that you can use:

Gestures	Actions (○=finger down; ◌=finger up)	Descriptions
Pan	 or Drag 1 or 2 fingers up or down.	Use planning to see another part of a page that has scroll bars.
Pinch	Move two fingers part/toward each other.	Use zooming to make an item (a photo for example) on the screen larger or smaller. The gesture works in

		applications that support mouse wheel zooming.
Rotate	or  Move two fingers in opposing directions. -or Use one finger to pivot around another.	Use rotating to move a picture or other item on the screen in a circular direction (clockwise or counter clockwise). The gesture works in applications that support the specific gesture.
Press and Tap	 Hold down the target and click with the second finger.	Press and click to open the shortcut menu.

Double finger click	 Tap with two fingers at the same time (the target should be located in the middle of both fingers).	The actual functionality is determined by the application that supports this gesture.
Flicks	  Drag quickly in the desired direction.	Moving left or back can move forward or backward in a browser or other application. This gesture is most likely available in applications that support back/forward.

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