

DORLAND®

Industrial Intrinsically Safe Tablet PC/Pad Quick User Manual



Ex Tablet12

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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 Tablet12 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 Tablet12 tablet
- ◆ Charger
- ◆ Quick operation manual
- ◆ Explosion proof certificate

Safety instructions

Ordinary tablet can't 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 PAD Ex Tablet12 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.

Basic parameters

Explosion-proof grade: Ex ic IIB T5 Gc

Certification No.: SYEx23.06208X

Protection grade: IP65

Warning for safe use

Only by strictly following the instructions in this section can the safety performance of Ex Tablet12, 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.

Equipment that may be affected by this product includes 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.

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.

Please do not bring this product to the operating room, ICU or CCU.

In medical places where the use of this product is prohibited, please follow the instructions and regulations of the place.

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.

In flammable and explosive areas, do not take out, install or charge the battery to avoid explosion or fire.

Rules for safe use

The safe use of the intrinsically safe industrial explosion-proof tablet Ex Tablet12 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 Dorland. The battery is Ex Battery 073 6300 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 8.4V.
- 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.

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

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 °C and 60 °C. The ambient temperature for battery storage shall be kept between - 30 °C and 70 °C. If the battery is placed in an overheated or supercooled area, the capacity and service life of the battery may be reduced. When the temperature is lower than 0 °C, 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.

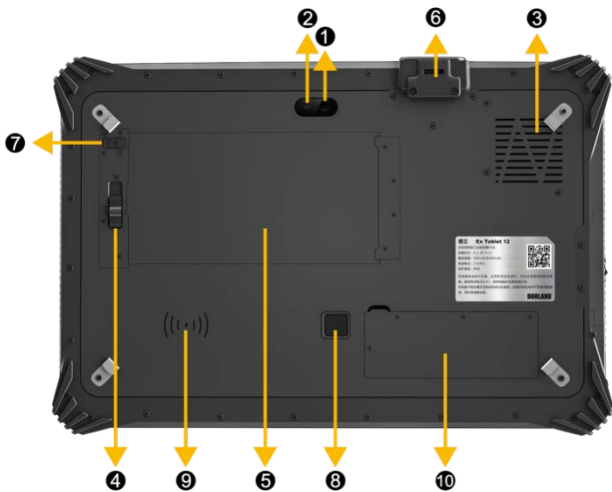
Monstrans de droit

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

Six views of product appearance



Ref	Component	Description
①	Microphone	Used to receive external sounds.
②	Stereo Speaker	Make the sound of a tablet.
③	Indicators	On: The power on light is always blue, and the power off light is off; When switching the power supply of the built-in small battery, it flashes blue. Below: (red green dual color) Charging red, full of green; The low battery red light flashes and does not light up during discharge.
④	F Key	2D scan button (can be defined).
⑤	Windows HOME	Used to open a Windows shortcut.
⑥	Volume Button+	Used to adjust and increase the volume.
⑦	Volume Button-	Used to adjust the volume decrease.
⑧	Power Button	Used for sleep wake-up devices and on/off devices.
⑨	LCD Screen	Present the image of the tablet, including touch screen functionality.

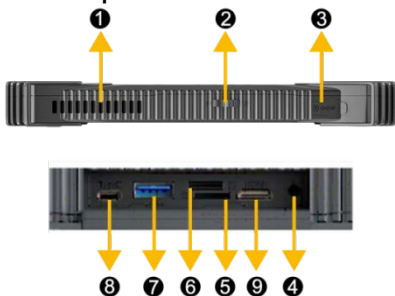


Ref	Component	Description
①	camera	Used to achieve photography and video recording functions.
②	Flash	Supplementary lighting and lighting use.
③	Cooling fan	Provide heat dissipation for the flat panel (air inlet).
④	battery lock	Lock the battery cover.
⑤	battery	The location of the large battery.
⑥	Plastic top shell	Install a scanning head.
⑦	Battery switching latch	The normal power supply switch is closed, and the unlocking status is changed by replacing the large battery. After the replacement is completed, the latch needs to be restored.
⑧	fingerprint	Fingerprint unlocking.
⑨	NFC	NFC card swiping.
⑩	SSD	Location of the solid-state drive interface.

Right-Side Components

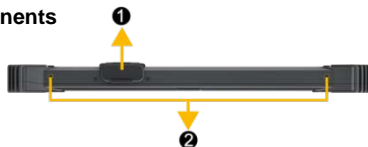


Left-Side Components



Ref	Component	Description
①	Cooling	Provide heat dissipation for the flat panel (air outlet).
②	Interface	To serve as a protective interface, slide left to open the protective cover.
③	DC	Connect the power adapter.
④	3.5mm	Connect audio devices.
⑤	TF	Install TF storage card, max: 128G.
⑥	SIM	Install the SIM card.
⑦	USB	Connect a USB device.
⑧	Type-C	Devices that can connect to USB-C.
⑨	HDMI	Connect an HDMI monitor or projector.

Top Components

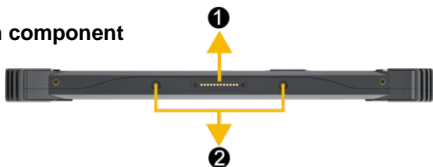


Ref	Component	Description
①	One out of five module ports	Network port (default), serial port, USB, one-dimensional code, two-dimensional code, one out of five
②	Handle screw position	Install the M4 handle screw for easy installation of the handle.

Schematic diagram of the handle: (The picture is for reference only)



Bottom component



Ref	Component	Description
①	Pogo Pin	Cooperate with the positioning hole to connect the car holder and charging base for expanding USB, RJ45, RS232 communication interfaces.
②	Positioning hole	When connecting the car holder and charging base, it plays a fixing role.

Install SIM card and TF Card

Install the Nano SIM + TF card in the following location.



The installation method is shown in the following figure.



Schematic diagram of charging base: (Image and reference only)



Schematic diagram of the car mount: (The image is for reference only)



Using the touch screen

Note: Do not use sharp objects such as ballpoint pens or pencils on the touch screen. Otherwise, it may damage the touch screen surface. Touch screen pens or fingers should be used.

The specific model of screen is a capacitive touch screen. This type of screen responds to conductive objects, such as fingers and capacitive touch screen pens. You can move on the screen without using a keyboard or mouse.



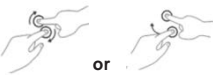
The following table shows you how to use the touch action of the screen to achieve the same effect as a mouse:



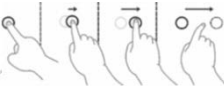
Terminology/Action	Mouse
Click: Click on the screen.	Click
Click twice: Quickly click twice on the screen.	Double click
Click and hold: Click and hold the screen until a pop.	Right click
Drag: Click on the screen and drag to the desired position.	Drag

Using multi touch screen gestures

You can use the movements of two fingers on the screen to communicate with the tablet. This type of action is called 'gestures', which convey commands to the tablet.

Here are the multi touch screen gestures you can use:

Gesture	Action	Description
Pan	 Use one or two fingers to drag up or down.	Any image with a scrolling axis can use this gesture to view other parts of the image.
Pinch	 Keep two fingers away/close to each other.	Use this gesture to zoom in or out on objects on the screen (such as photos). This gesture can be used by applications that support mouse wheel scaling.
Rotate	 Draw circles with two fingers in opposite directions. -Or- Rotate one finger around the other.	Use this gesture to rotate the photo or object on the screen in a clockwise or counterclockwise direction. Limited to applications that support this gesture.


Gesture	Action	Description
<p>Hold and click</p>	 <p>Hold down the target and then click with the second finger.</p>	<p>Hold down and click to open the shortcut menu.</p>
<p>Double finger click</p>	 <p>Click with two fingers simultaneously (the target should be located between the two fingers).</p>	<p>The actual functionality is determined by the application software that supports this gesture.</p>
<p>Convulsion</p>	 <p>Quickly drag in the desired direction.</p>	<p>Moving left or back can move forward or backward in a browser or other application. This gesture is mostly usable in applications that support back/forward.</p>

Using wireless connectivity

Using WLAN wireless local area network functionality


The built-in WLAN (Wireless Local Area Network) function of the tablet supports the WiFi802.11 (a/b/g/n/ac) standard.

Turn on WLAN radio frequency:


Click  -[Settings] - [Network and Internet] - [WLAN], and turn the WLAN switch to the [On] position.

Turn off WLAN radio frequency:

You can turn off WLAN RF by opening it in the same way as turning it on. To quickly turn off all wireless radio frequencies at once, simply turn on flight mode.

Click  -[Settings] - [Network and Internet] - [Flight Mode] and turn the flight mode switch to the [On] position.

Connect to wireless network

1. Please ensure that the wireless network feature is enabled (as mentioned earlier).
2. Click on the network icon in the lower right taskbar  .
3. Select the network you want to connect to in the wireless network list, and then click [Connect].


4. Depending on the settings, you may need to enter a password. Please contact your network administrator or operator for information. For more information on setting up a wireless network, please refer to Windows' online help.

Using Bluetooth functionality

The Bluetooth function provides Bluetooth device connectivity for short distance wireless communication without the need for any cables. By using Bluetooth technology, data can penetrate walls, pockets, and bags, allowing communication between two devices within a valid range.


Turning Bluetooth RF on and off

Turn on Bluetooth RF:


Click  - [Settings] - [Devices] - [Bluetooth], and turn the Bluetooth switch to the [On] position.

Turn off Bluetooth RF:

You can turn off Bluetooth RF by opening it in the same way as turning it on.

To quickly turn off all wireless radio frequencies at once, simply turn on flight mode. Click  - [Settings] - [Network and Internet] - [Flight Mode] and turn the flight mode switch to the [On] position.

Connect to other Bluetooth devices

1. Please ensure that the Bluetooth function is enabled (as mentioned earlier).
2. Please ensure that the Bluetooth device you want to connect to is turned on, in a discoverable state, and within a valid range.
3. Click  - [Settings] - [Devices] - [Bluetooth].
4. Select the device you want to connect to in the search results.
5. Depending on the type of Bluetooth device you want to connect to, you may need to enter relevant information. For detailed information about Bluetooth functionality, please refer to Windows' online help.

Application of electricity

Your tablet can be powered by an external AC power source or an internal battery pack.

ac adapter

Attention:

The power adapter is only for your tablet use. If used for other purposes, it may damage the connected electrical appliances or adapters.

The power cord attached to the power adapter meets the specifications of the place of purchase. If you want to use this tablet abroad, please consult your dealer to obtain a suitable power cord.

If you want to unplug the power adapter, you must first unplug the power plug on the wall, and then unplug the power connector plugged into the tablet, otherwise it may cause damage to the tablet and adapter due to external voltage impact.

When unplugging the plug, do not pull on the wires. Use your hand to hold the plug and unplug it.

Since your tablet operates on DC power, but the power outlet usually provides AC power, the function of the power adapter is to convert the AC power from the power source into the DC power required for the tablet. When connecting the power adapter, it also automatically charges the battery.

The adapter can operate within the voltage range of 100V to 240VAC.


Battery pack

The battery pack is the internal power source of the tablet and can be charged through a power adapter.

Note: The timing for removing the battery pack is limited to when the battery is not being charged.

Battery charging

Note: The rechargeable temperature of the battery is between 0°C and 50°C.

Connect the tablet to the power adapter and plug the adapter's power cord into the power outlet to charge the battery. At this point, the two battery indicator lights () on the tablet will light red, indicating that charging is in

progress. When the battery is fully charged, the battery indicator light turns green.

Attention: After the battery is fully charged, do not immediately unplug and connect the power adapter, as the battery may be damaged as a result.

Check battery level

Note: The battery level display is an estimated value. In fact, there may be a gap between the available time and the estimated time, especially when individuals use tablets, which can also affect their power consumption.

After the battery is fully charged, the power supply time depends on the situation you are using the tablet. If you use software that requires frequent use of peripheral devices, power may run out quickly.

The battery icon on the Windows taskbar (in the lower right corner) displays the battery level.

Low battery

When the battery is low, please immediately connect the adapter, put the tablet into sleep mode, or turn off the tablet power.

Replacing the battery pack

Attention:

Incorrect battery replacement may lead to an explosion.

When replacing the battery, be sure to use the original battery supplied by the tablet manufacturer. When discarding old battery packs, please follow the manufacturer's instructions.

Do not disassemble the battery pack.

The battery pack may overheat after prolonged operation.

Please do not touch the battery pack that triggers scalding with bare hands. After removing the battery pack, please place it in a ventilated area.

Note: This model has two large and small batteries, which can be hot swapped and replaced with external large batteries.

1. Carefully flip the flat plate so that its bottom is facing upwards.
2. Turn the small battery switch to the unlock position (at this time, the small battery is powered and the front blue light is flashing).
3. Turn the large battery switch to the unlock button, and the battery can be removed at this time.



4. After installing the large battery, lock the battery lock switch and turn the small battery switch to the locked state.



Energy saving tips

In addition to enabling the energy-saving mode of the tablet, you can also refer to the following suggestions to maximize the working time of the battery.

- Do not disable power management.
- Adjust the screen brightness to the lowest level that is acceptable to the individual.
- Reduce the timer time for Windows to turn off the display screen.
- When the external equipment is not in use, please unplug the cable.
- When not using the wireless radio frequency function (WLAN, Bluetooth), please turn it off.
- When not using the tablet, please turn off the tablet power.

System Expansion

You can expand the functionality of the tablet by connecting external devices.

When using peripherals, in addition to referring to the relevant chapters here, please be sure to read the instructions provided by the device itself.

Connecting peripherals

Connecting USB devices

This tablet is equipped with one USB 3.0 port and can connect to USB devices such as digital cameras, scanners, printers, and mice.

Connecting USB Type-C devices

Your tablet has a USB Type-C port. This port supports:

- USB Type-C (or simply USB-C) port type
- Display Port
- USB Power Delivery

Be sure to use the correct USB-C power adapter for your tablet model.

Connecting the monitor

Your tablet supports HDMI and DisplayPort interfaces. Please connect the monitor to the corresponding interface according to the specifications.

Connecting audio devices

Your tablet is equipped with one composite audio port, which belongs to the 3.5mm specification and can be connected to compatible headphone microphones.

Contact us



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