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TD 3.0 dropper instruction manual

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I. Product introduction

This product is a five-segment drone aerial device developed based on DJI OSDK. Its advantage is that the OSDK communication control does not occupy the gimbal interface, so customers can use it without purchasing a dual gimbal kit.

With our quick-disassembly mount, a variety of equipment can be quickly disassembled and replaced, with the focus on the location below the center of gravity of the UAV, to maximize the safety and stability of UAV flight, such as equipped with the H20 series camera with this dropper, not only can be high-definition and convenient observation of the target, but also can be divided into multiple drops of items, to achieve accurate drop, safe and stable.

The main body of the device is made of carbon fiber and aerospace aluminum materials, CNC process, anodized and laser engraved surface treatment, waterproof and rust-proof, using TYPE-C interface and the OSDK interface of the drone to prevent misplugging design connection, the front of the module is set up with a manual button to control the dropper claw on and off, can quickly complete the mount task items.

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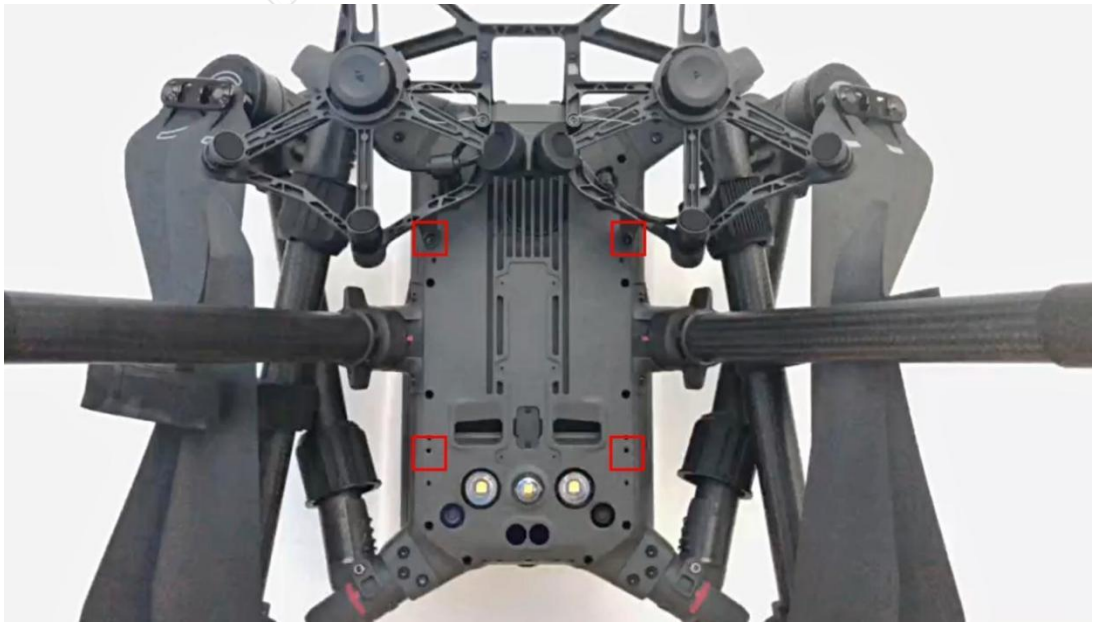
II. Installation and setup operations

2.1 Hardware Installation

The following items need to be prepared prior to installing and setting up for use. M300RTK drone, remote control, computer, type-c cable, quick release mount, five-segment dropper, dedicated OSDK connection cable, TF card with APP installation package.

After the preparation work is done, first install the quick release hanger to the bottom of the drone, first remove the two fixing screws of the gimbal hanger, install the quick release hanger to the same hole, use the included screws and tools, install the four fixing screws.



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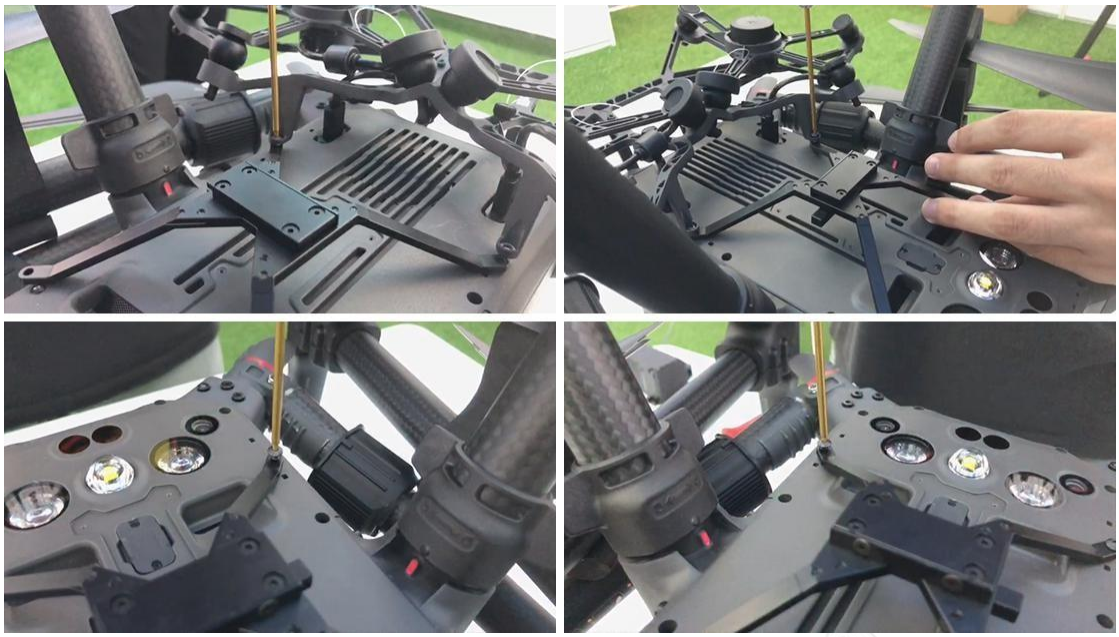

Install the five-segment drop into the quick release hanger bay, align and push in, and when you hear a click to indicate locking, you can shake the drop to verify that it is securely installed. (Refer to Figure 4)

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2.2 Computer Configuration Drone Setup

Plug the USB end of the type-c cable into the USB porton your computer and the type-c connector end into the tuning reference connector on the top right side of the drone.
(opposite direction left)

The computer needs to go to the DJI website, Industry Applications, warp matrice 300RTK, Downloads page, and download the DJI Assistant 2 (Enterprise Series) tuning software.

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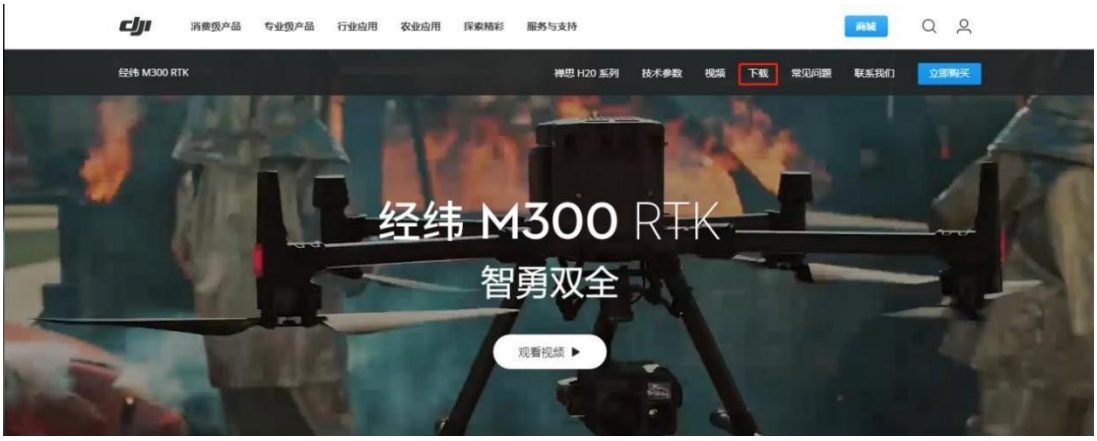

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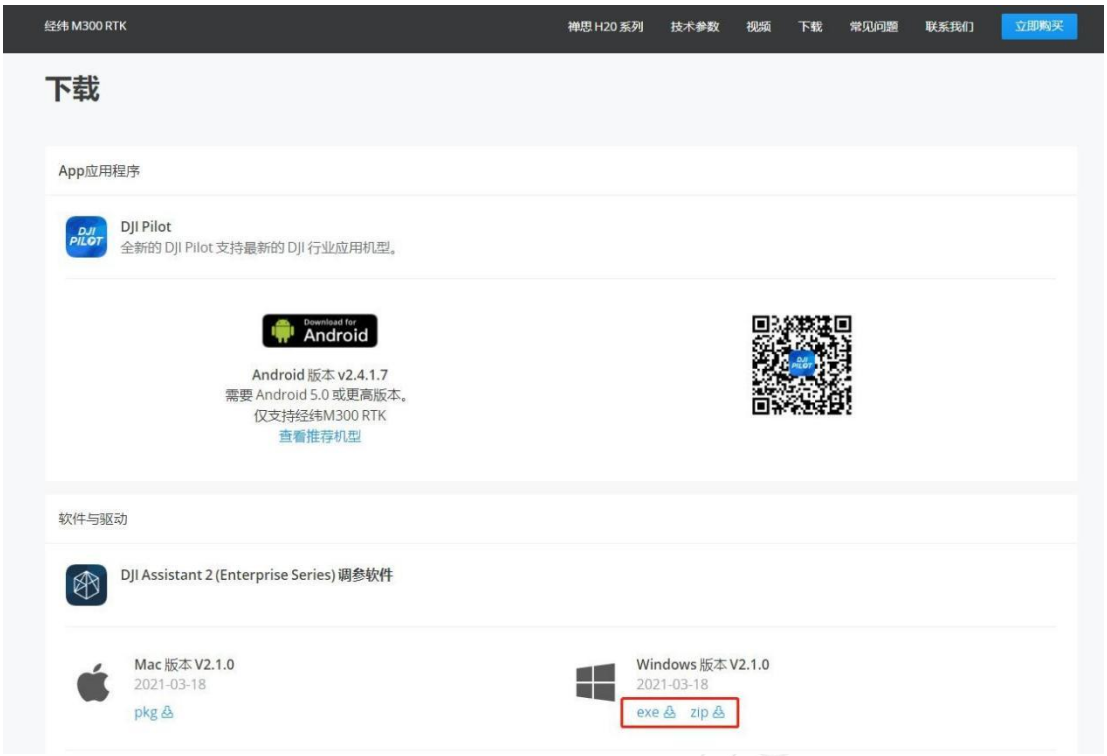
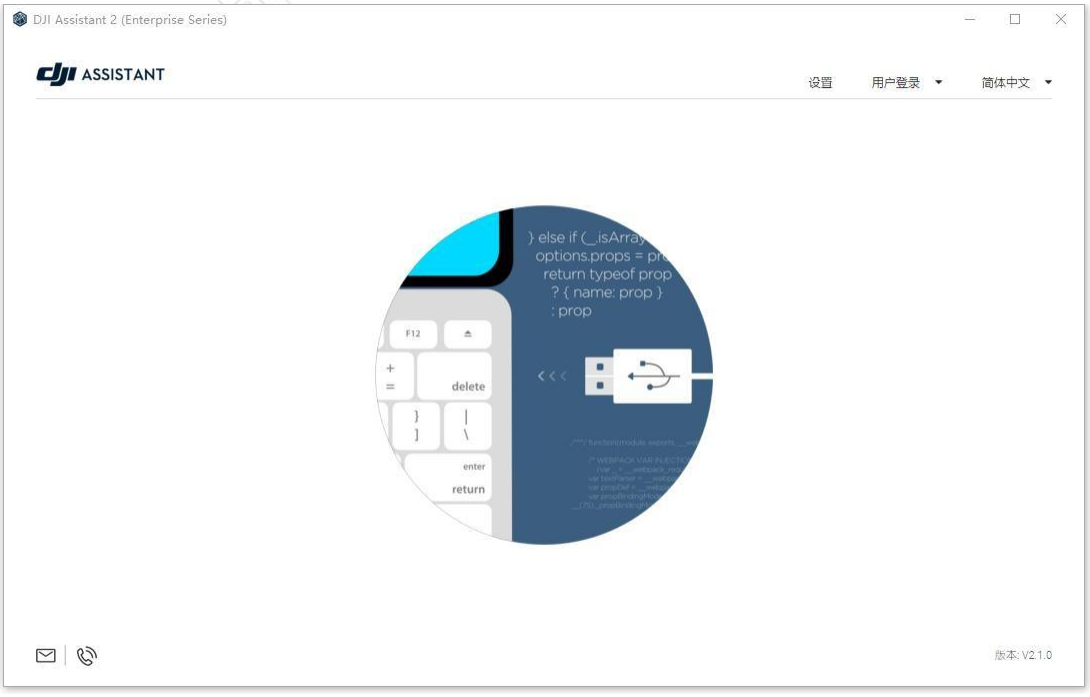


Double click on the downloaded installer, click OK, I accept the agreement, next, next, install, click end.



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Click User Login, make sure your computer is connected to the Internet, enter your DJI account, password, and verification code, click I have read and agree, and click Login.

Click on Settings next to the login account and turn all switches on.

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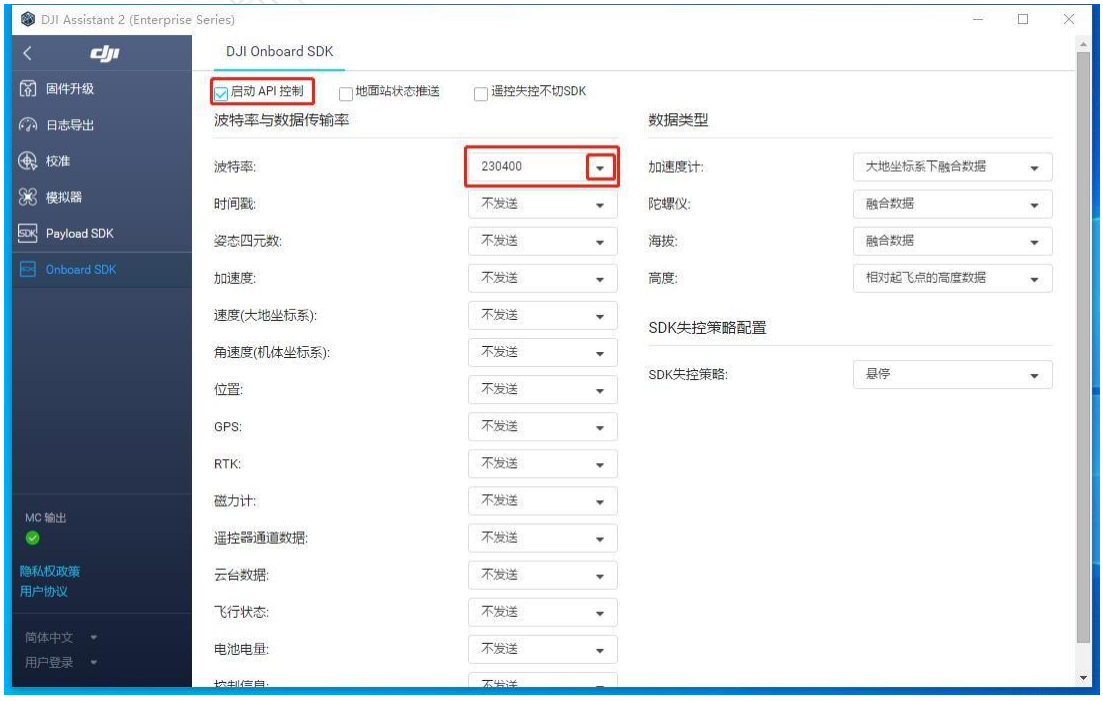
Power on the drone, start it up and observe the software interface, click on the M300 icon, enter and wait for the firmware version to refresh, if the firmware version is not the latest, please upgrade to the latest version.

Click on the Onbiar SDK again, check the API Enable checkbox, and change the baud rate to 230400.

Then close the tuning software, complete the computer configuration drone settings, unplug the type-c cable, and power off the drone.



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2.3 Data Cable Link

Plug the body end of the dedicated connection cable, into the OSDK connector on the top of the drone, note that there is a directional requirement, single slot for the plug, facing the outside of the drone, insert it to make sure it is in the bottom and secure, then plug the type-c end of the other end of the connection cable into the OSDK connector of the five-segment dropper, regardless of forward or reverse direction. Note: The OSDK interface must not be hot unplugged with electricity to prevent damage to the interface!

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2.4 Remote Control Software Installation

Insert the TF card with the APP installation package into the TF card slot of the remote control, paying attention to the installation direction and pressing it into place.

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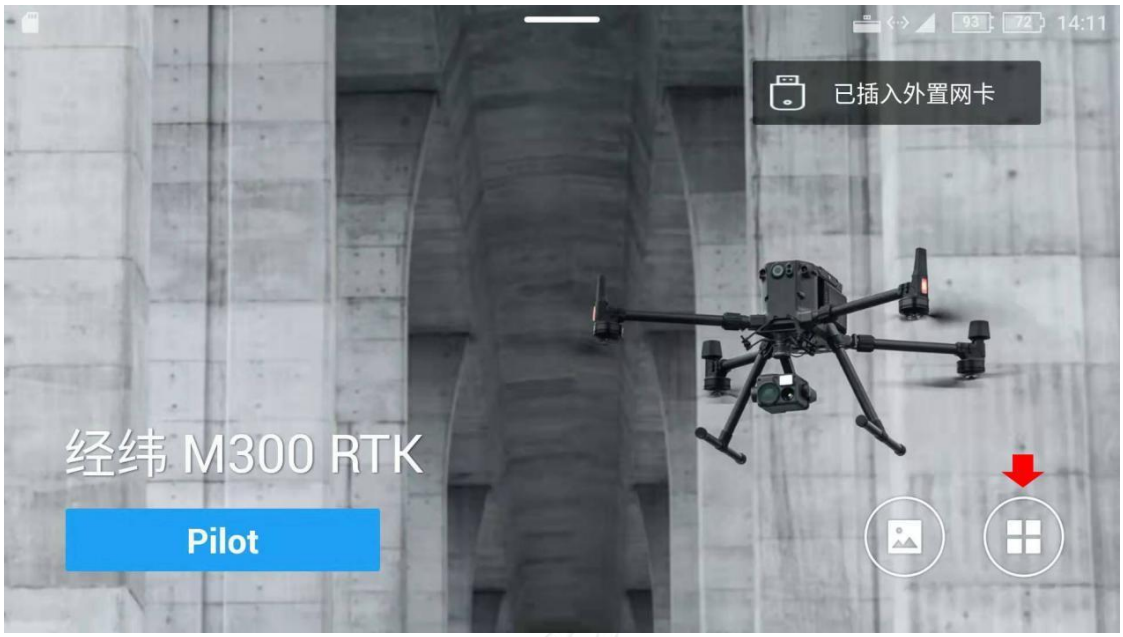
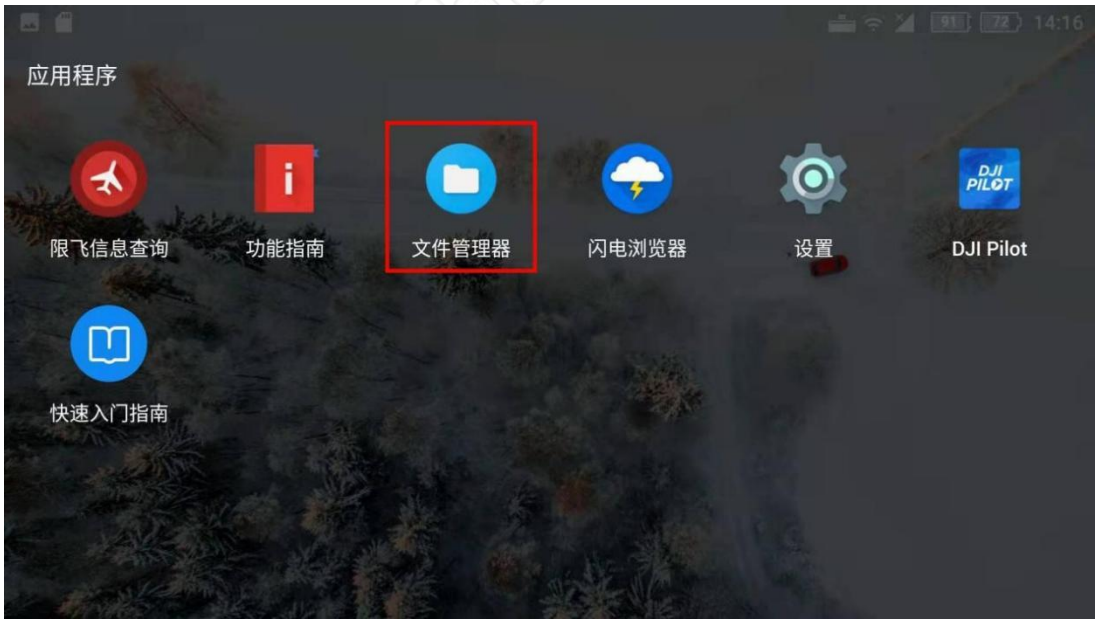
Power on the remote control, start it up and connect it to a reliable WIFI or cell phone hotspot.
Then click the menu icon in the bottom right corner, click File Manager, click SD Card, find and click app-debug.apk





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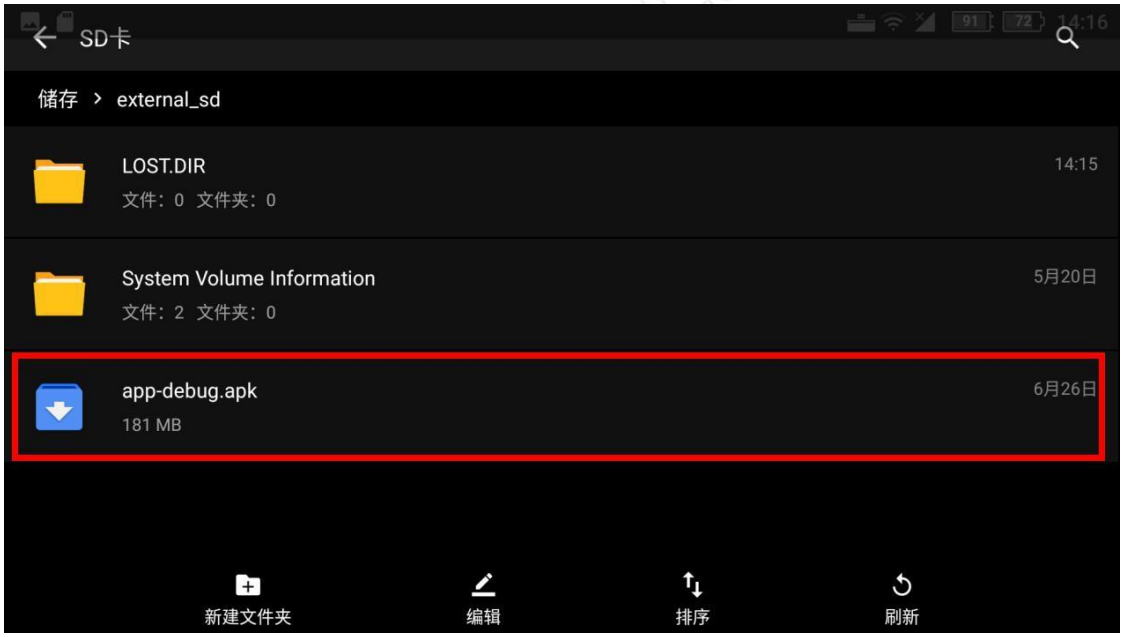

Click Install, wait for the installation to complete, the Get Permissions screen will pop up, click Allow All to complete the installation process.

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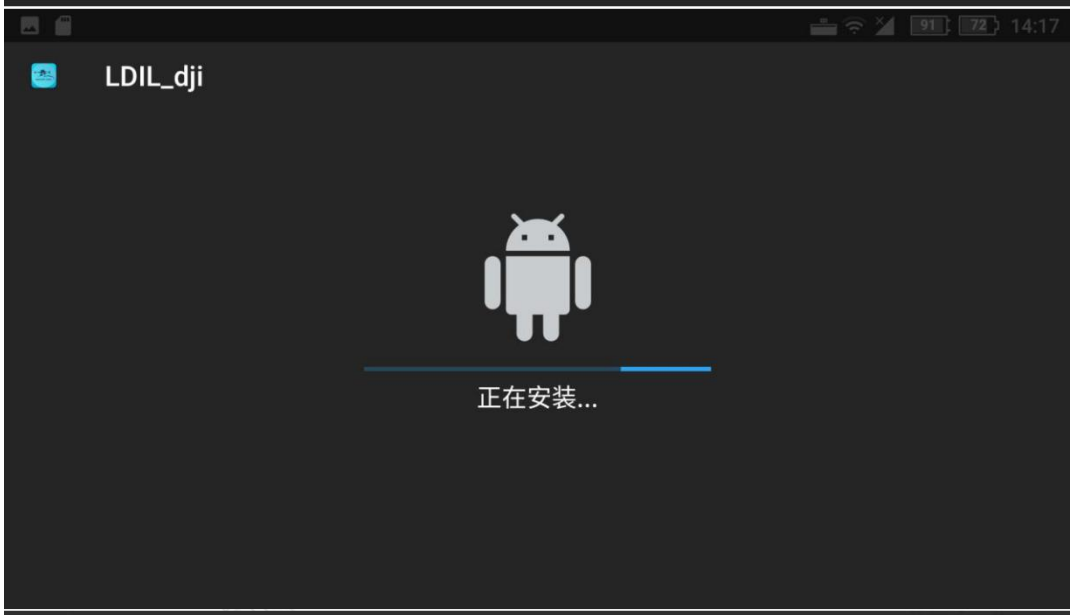

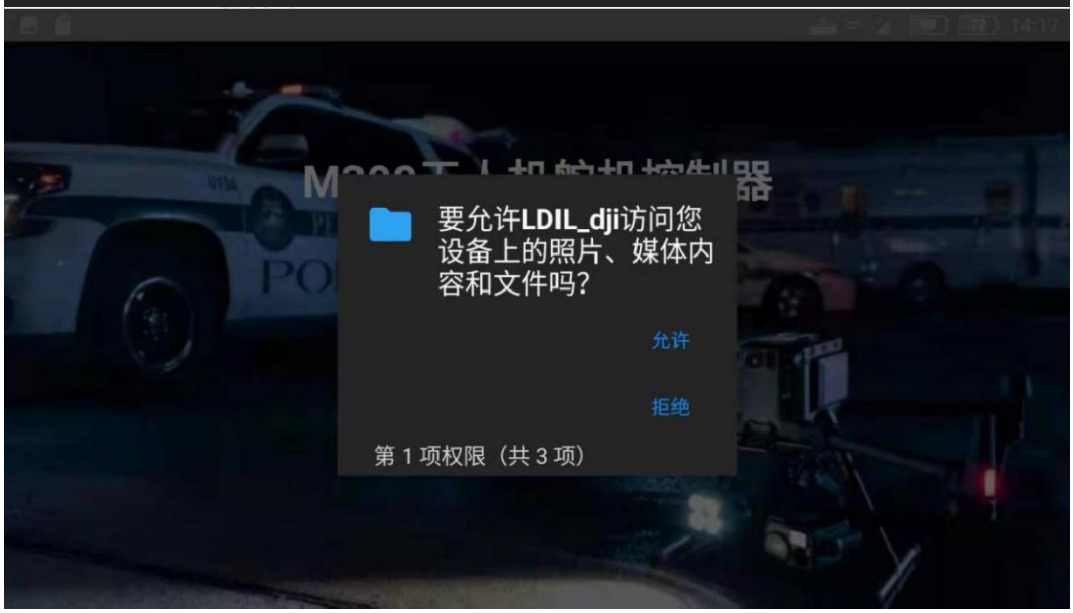

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Then turn on the power of the drone, wait for the drone and the remote control to connect normally, after the login button changes color, click the login button, enter the APP, and the installation and setup is completed.

III. How to use

After the APP is installed and the device is fully connected to the drone and powered on, the five-segment dropper will automatically enter its initial position. Then click the physical button on the five-segment dropper, each physical button press opens a drop jaw, when opened move the rope of the item to be dropped to within the locking range of the drop jaw, press it five times in sequence, after mounting five dropped items, you can take off.

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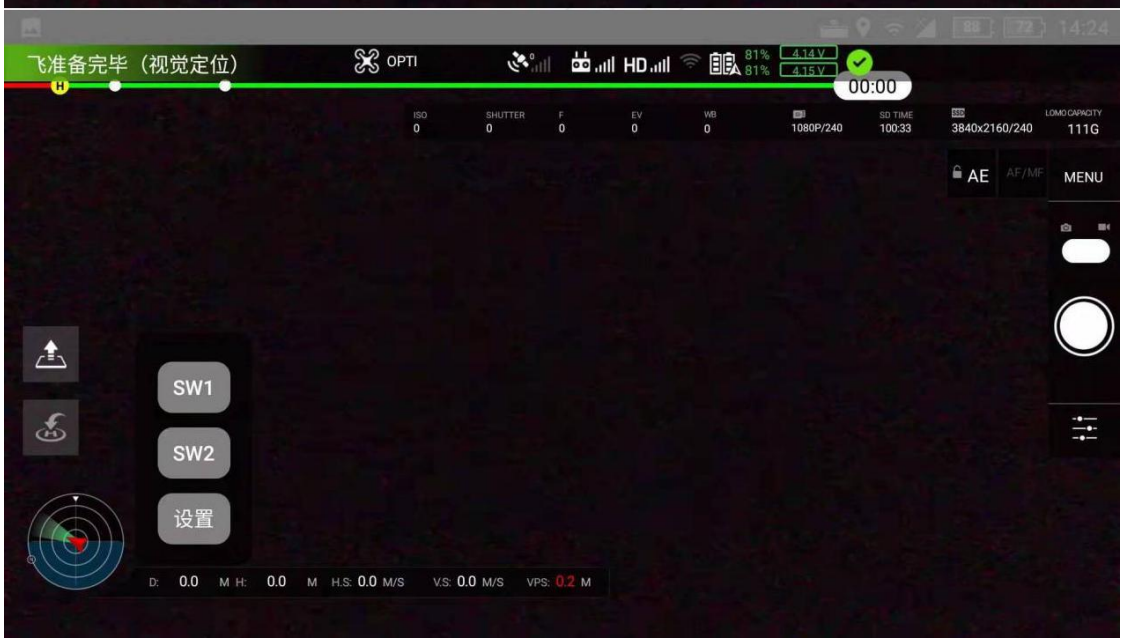
When the camera is vertical to the ground, tap the SW1 icon on the left side of the APP to start dropping items when you fly above the mission target. After returning to the takeoff point, you can use the physical button to mount a new drop item, or use the SW1 icon in the APP interface to control the opening of the drop claw.



Caution.

Try not to unplug the osdk connection cable with electricity, otherwise it may lead to damage to the OSDK interface, the damage phenomenon is the five-segment drop device can not be controlled (under the premise of normal use before); once damaged, you need to return to the factory to repair the OSDK interface of the drone, please pay attention to the order of operation, should plug both ends of the OSDK connection cable before powering up the drone to start.

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IV. Technical parameters

TD 3.0 5-stage dropper

Product Size	62mm*62mm*92mm
outer packaging box	252mm*217mm*121mm
weight	295g
Electrical Interface	OSDK
rating	18w
Supply voltage	Type-c port input voltage 5~24V
Control method	OSDK+APP Control
Control distance	Equal communication distance to the drone (DJI Warp M300 RTK) If using a third-party drone mount, the control distance depends on whether it comes with a remote control
Mounting method	quick-release
Number of mounts	5
Single jaw load weight	5kg, actual and aircraft weight prevail
Total trailer weight	25kg, actual and aircraft weight prevail
mounting order	sequential mounting
drop order	sequential placement
Drop-in function	single placement
Working ambient temperature	-20°C to 45°C
Expanded functionality	Supports third party drone PWM signal control (contact sales in advance)
Supported Models	DJI Warp M300 RTK (other models please contact sales first)

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V. Warranty service

In order to obtain better repair and warranty service, when you need warranty service, please return the product or damaged parts, pack it carefully, and provide proof of when and where you purchased it.

The shipping cost will be paid by the buyer first, and the company will give after-sales service after inspection. The buyer is responsible for return shipping costs for non-quality issues. The company does not charge for unallowed delivery. Thank you for your cooperation.

Warranty service is not available if the following conditions exist.

1. Any private modification, alteration or repair by anyone other than Lidl or its authorized agencies.
2. Human damage, such as breakage caused by dropping, hitting, crushing, etc..
3. (a) Damage caused by not following product instructions under overload voltage.
4. (a) Damage to the device caused by a reversed power supply.
5. (a) Destroyed by force majeure.
6. (a) Destroyed by corrosive liquids.
7. (a) Where the warranty has expired.
8. Where valid proof of purchase cannot be provided (invoice or transaction information)

Note: After purchasing the product, please read the above related information carefully, if you have any questions, please contact the sales staff or the company's technical staff.