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I. Check Before Flight

1. Download APP

Web: http://www.tarotrc.com/tool/Tarot-BD-APP.zip

QR Code:

2. Turn on Tarot APP and Connect to ZYX-BD

⚠️ Please turn on BLUETOOTH of your smartphone.

TAROT APP requires: Android OS 4.3 or above with Bluetooth 4.0.

You should pair ZYX-BD to TAROT APP through Bluetooth.
① Power on ZYX-BD.
② Turn on Tarot APP and choose your desired device in the pop-up window. The Bluetooth name of ZYX-BD usually starts with Tarot_BT.
③ Choose ZYX-BD in the window and wait for connection. When the device name and Bluetooth icon on the upper right corner turn to blue, pairing finishes. All the above steps show when you pair them for the first time, and Tarot APP will auto connect it since then.
④ If you want to change the auto-pairing device, just tap the Bluetooth icon on the upper right corner and select your desired device in the pop-up window.

If the Bluetooth icon becomes white, it implies that Tarot APP disconnects with ZYX-BD.
If the Bluetooth icon alternately blinks blue and white, it means that Tarot APP is trying to connect.
If the Bluetooth icon becomes blue, connection has been built.

After pairing, please click Earth icon to enter Flight Interface.
3. Interface

Drone Compass Calibration should be finished outdoors.

4. Calibration

1. Drone Compass Calibration

(1) When should I Calibrate?
① It is suggested to calibrate compass when you first use Drone.
② Regularly calibrate the compass because it is easily interrupted by other electronic devices.
③ If RED Status LEDs on Drone blink twice per second, please do compass calibration before taking-off. If Drone has taken off, please land as soon as possible and calibrate the compass.

(2) Calibration Steps
① Turn on Tarot APP and enter Flight Interface. Tap "Others" icon and choose Calibration icon to enter Calibration interface.
② Select "Calibrate Drone Sensor" option and choose "Calibrate Compass".
③ When Yellow LED is on, hold and rotate the drone horizontally until Green LED is on.
2. Gyro Calibration

(1) When should I Calibrate?
① When drifts happen in A mode, calibration should be finished.
② It is suggested to do Gyro calibration regularly by putting the drone on the horizontal ground.

(2) Calibration Steps
① Ensure ZYX-BD has connected to Tarot APP.
② Place Drone in the level ground.
③ Turn on Tarot APP and enter Flight Interface. Tap “Others” icon and choose Calibration icon to enter Calibration interface.
④ Select “Calibrate Drone Sensor” option and choose “Calibrate”.

④ When Green LED is on, hold the drone vertically with its nose pointing upwards. Rotate the drone around the center axis. Before calibration, LED is blinking to show the flight mode. If LED blinks to show the flight mode again, calibration is successful. For instance, before calibration, it is Attitude Mode and Yellow LED blinks once. When calibration finishes, Yellow LED blinks once again.

⑤ If calibration fails, Red LEDs are blinking twice per second. Please repeat step 3 and 4.

(3) Attentions!
① DO NOT calibrate your compass where there is strong magnetic interference around, such as magnetite, parking structure, and steel reinforcements underground.
② DO NOT carry ferromagnetic materials with you during calibration such as keys.
③ DO NOT calibrate beside massive metal objects.
④ If calibration fails, there may be interference around. Please re-calibrate in another place.
⑤ Before calibration, please make sure Drone and Tarot APP has connected.
II. Flight Test

1. Finish Check before Flight

Please ensure you have finishes all the steps in Check before Flight.

2. Check Flight Environment

Ensure there is no obstacle around the 50 meters of take-off position.
There is no huge building or trees around flight area.
Flight environment meets Flight Environment Requirements.

It is suggested to build an electronic fence before first ten flights to set max height and distance to ensure the drone would not break its boundary.

Set Max Height and Max Distance

In Flight Interface, tap “Drone Current Mode” icon to enter Flight Controller interface.

Modify values of Max Altitude and Max Distance in the blue box. These two values would form a cylinder, and the drone would fly within the cylinder. When it reaches the max value, Drone will hover. Green dashed line represents the max altitude, while blue dashed line represents max distance. Both values support the generation of red cylinder.

Meanwhile, to ensure safety, you could modify the max flight velocity in GPS Mode. Drone would not fly over the limited speed.

3. Check GPS Status & Connection Status

DO NOT IGNORE THIS STEP!

Tarot APP:

In Flight Interface, check whether or not over 10 satellites have been found and ZYX-BD has connected to Smartphone.
Please ensure there are more than 10 GPS satellites.

4. One-Key Take-off

Please activate One-key Take-off on the level surface.

In Flight Interface ( ), tap One-Key Take-off icon ( ) and slide the white slider to confirm take-off.

After activating Follow Mode, the camera will always focus on the target. If you need to adjust Drone's attitude, please pay attention to the position and direction of nose. It is suggested to adjust drone's attitude gradually and make sure you have set the drone to the correct direction.

When head of drone faces Smartphone, you should pay special attentions because its orientation may be in the opposite direction.

5. Follow Mode

Before switching, please ensure parameters have been set correctly, flight environment is safe (e.g. no tall buildings and interference sources), and distance between Drone & target is suitable.

There are 4 Follow Mode supported by ZYX-BD: Simple-Follow ( ), Hover-and-Aim ( ), Follow-Shadow ( ), Orbit ( ).
**Simple Follow**

Drone will auto follow the target with a fixed distance and altitude. 
Attentions: ONLY activate Simple-Follow after taking-off. When this mode has been triggered, Drone will remain the relative altitude and distance between Drone & Smartphone.

**Keep a safe distance between Drone & Smartphone.**

**How to activate?**

**Tarot APP:**

① Ensure Drone has taken-off.
② Click Follow Mode icon and enter Follow Mode menu.
③ Click Simple Follow icon and enter Simple Follow menu.
④ Click "Start". After all parameters have been uploaded, Simple Follow enables.

**In Flight Interface, click STOP button to deactivate.**

**Hover-and-Aim**

In this mode, Drone will hover, but its nose and camera will rotate with the target. In other words, when target (Smartphone) moves, Drone will stay hovering, but its nose and camera will move with Smartphone to capture images.

**Keep a safe distance between Drone & Smartphone.**

**How to activate?**

**Tarot APP:**

① Ensure Drone has taken-off.
② Click Follow Mode icon and enter Follow Mode menu.
③ Click Hover-and-Aim icon and enter Hover-and-Aim menu.
④ Click "Start". After all parameters have been uploaded, Hover-and-Aim enables.

**In Flight Interface, click STOP button to deactivate.**
Follow-Shadow

You need set relative distance, altitude and angle between Drone & Smartphone in APP. After activating, Drone will fly based on the preset distance, altitude and angle.

In the following diagram, Green Circle represents Smartphone, while the Golden Arrow stands for the moving direction of Smartphone. The Blue Triangle represents Drone.

How to activate?

Tarot APP:

1. Ensure Drone has taken-off.
2. Click Follow Mode icon and enter Follow Mode menu.
3. Click Follow-Shadow icon and enter Follow-Shadow menu.
4. Drag Blue Drone icon to set the angle between Drone and Smartphone.
5. Click Altitude and Distance to adjust appropriate flight parameters in the pop-up window.
6. Click “Start”. After all parameters have been uploaded, Follow-Shadow enables.

How to deactivate?

Tarot APP:

In Flight Interface, click STOP button to deactivate.

Orbit

Drone will fly in a preset speed and radius surrounding the target. After activating, Drone will fly in the preset speed and radius around the Smartphone. When the speed value is positive, Drone will orbit the target clockwise. When the speed value is negative, Drone will orbit the target counter-clockwise.

How to activate?

Tarot APP:

1. Ensure Drone has taken-off.
2. Click Follow Mode icon and enter Follow Mode menu.
3. Click Orbit icon and enter Orbit menu.
4. Click Altitude, Distance and to adjust appropriate flight parameters in the pop-up window.
5. Click “Start”. After all parameters have been uploaded, Orbit enables.
How to deactivate?
Tarot APP:
In Flight Interface, click STOP button to deactivate.

6. Nav. Mode
ZYX-BD supports three Nav. Mode: Single-Point Orbit, Pointing, Multiple-Points Nav.

Single-Point Orbit
After finishing setting the waypoint in the map, Drone will orbit the waypoint constantly.

How to activate?
Tarot APP:

How to deactivate?
Tarot APP:
In Flight Interface, click STOP button to deactivate.

Pointing
You should set one waypoint in the map at first, and Drone will fly towards the waypoint.

How to activate?
Tarot APP:
How to deactivate?
Tarot APP:
In Flight Interface, click STOP button to deactivate.

Multiple-Points Nav.
In Multiple-Points Nav., Drone will fly along the route of waypoints. After reaching the last waypoint, it will fly to the first waypoint and repeat the route.

How to activate?
Tarot APP:

Tap the waypoint in the map to edit its altitude and velocity in the pop-up window. Also, delete this waypoint in this pop-up window. Click the waypoint for over 3s to drag it to other location in the map.

How to deactivate?
Tarot APP:
In Flight Interface, click STOP button to deactivate.
7. Go-Home

Go-Home brings the drone back to the latest recorded Home Point. Before going-home, you should set Home Point through ZYX-BD or Tarot APP. Three are three kinds of Home Points, including “Set Take-off Position as Home Point” ( ), “Set Smartphone Position as Home Point” ( ) and “Set Current Drone Position as Home Point” ( ).

If you have not set Home Point, Drone would return to Take-off position by default.

Set Home Point

⚠️

- Set Take-off Position as Home Point
- Set Smartphone as Home Point
- Set Current Drone Position as Home Point

Tarot APP:

If you want to enable Go-Home, it is suggested to set Home Point at first. Otherwise, Drone will return to take-off position by default.

Take “Set Drone Current Coordinate as the New Home Point” as an example.

Smart Go-Home

Enable Go-Home by ZYX-BD.

⚠️

It is suggested to enable Smart Go-Home in a safe and reliable environment to avoid obstacles.

How to activate?

Tarot APP :

In Flight Interface ( ), tap Go-Home icon ( ) and slide the white slider to confirm going home.

How to deactivate?

Tarot APP :

In Flight Interface, click STOP button to deactivate.
How to Go-Home?

Smart Go-Home procedures:

<table>
<thead>
<tr>
<th>Before Go-Home, Altitude &amp; Distance between Drone and Home Point:</th>
<th>How to go home?</th>
</tr>
</thead>
</table>
| **Distance > 5m**  
Altitude < Preset Go-Home Altitude | Drone will ascend to your preset Go-Home Altitude, and then go home. |
| **Distance > 5m**  
Altitude ≥ Preset Go-Home Altitude | Drone will go home directly. |
| **Distance < 5m**  
Altitude < 5m | Drone will ascend to 5 meters, and then go home. |
| **Distances≤5m**  
Altitude≥5m | Drone will go home directly. |

How to set Go-Home Altitude?

In flight interface, tap "Drone" icon to enter MC setting interface. Set a reasonable value in Go-Home Altitude column.

8. One-key Land

Please land the drone on the level ground.

In Flight Interface ( ), tap One-Key Land icon ( ) and slide the white slider to confirm landing.