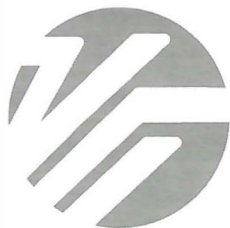


PHOENIX

GPS FOLDABLE VIDEO DRONE



DRC-LSX10
USER MANUAL



APP
CONTROL



FOLLOW ME
MODE



ARTICULATING
WIDE ANGLE
VIEW



AUTO
HOVER



ONE KEY
RETURN



FLIGHT
RANGE

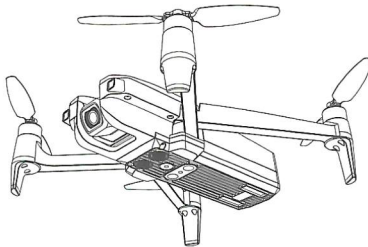


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PART 1:

This section mainly introduces functions and installation guidelines of the DRC-LSX10 and lists the components of the aircraft and remote controller.



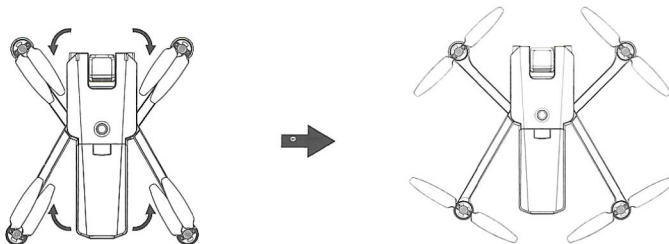
Introduction

Thank you for purchasing the VTI Phoenix GPS Foldable Video Drone, item DRC-LSX10. The included remote controlled aircraft is designed specifically for outdoor flying. In order to get the best possible results, please read this user's manual carefully before using. In addition, be sure to keep this manual in a safe place for future reference.

Setting Up Your DRC-LSX10

Unfold the aircraft

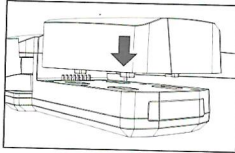
The aircraft is folded inside the package. Please unfold the aircraft before use.



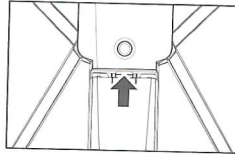
Battery installation

Step 1. Insert the battery into socket at the top of the aircraft (Pic. 1);

Step 2. Slide the battery into the compartment by pushing with appropriate force. Make sure that you hear a clicking sound to indicate that the battery is inserted securely (Pic. 2).



Pic. 1



Pic. 2



Attention: Failure to securely insert the battery can lead to your aircraft losing power mid flight and crashing.

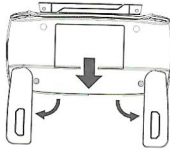
Setting Up the Remote Control

Inserting Batteries

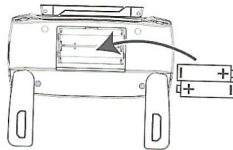
Step 1: Unfold the hand sticks and open the battery door (Pic. 1);

Step 2: Insert 2*AA batteries into the battery compartment making sure they are inserted with the correct polarity (+,-) as displayed in the battery compartment.(Pic. 2);

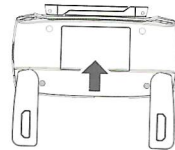
Step 3: Close the battery compartment (Pic. 3).



Pic. 1



Pic. 2

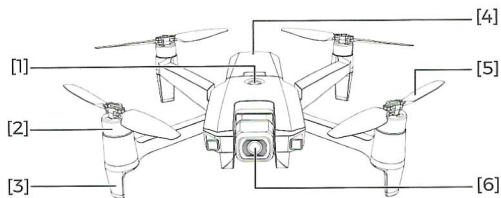


Pic. 3

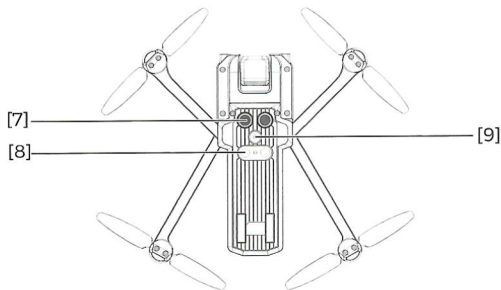


- Insert batteries with the correct polarity.
- Non rechargeable batteries are not to be charged; 2*AA batteries are required for successful operation.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.
- Rechargeable batteries are to be removed from the aircraft before being charged.
- Rechargeable batteries are only to be charged under adult supervision.
- Exhausted batteries are to be removed from the aircraft.
- The supply terminals are not to be short-circuited.

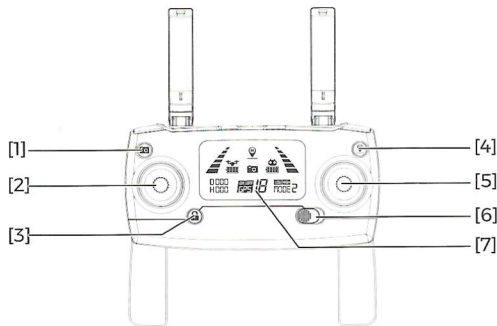
A Quick Look at Your Device



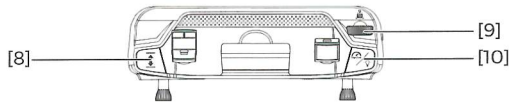
- [1] Power switch
- [2] Brushless motor
- [3] Undercarriage
- [4] Battery
- [5] Propeller
- [6] Camera



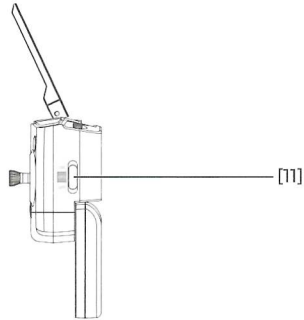
- [7] Null
- [8] Bottom lights
- [9] Vision positioning lens



- [1] Photo/Video
- [2] Left stick
- [3] One-key unlock/lock
- [4] One-key RTH
- [5] Right stick
- [6] Power switch
- [7] LCD display



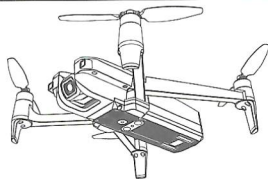
- [8] One-key takeoff/
one-key landing
- [9] Gimbal trimmer
- [10] Light switch (tap); High/Low
speed switch (press & hold)



- [11] GPS/Gesture mode switch

PART 2: Aircraft

This section introduces functions and features of the DRC-LSX10.



Flight Modes

Your DRC-LSX10 has 3 flight modes. When the mode switch is in the ON position the aircraft is in GPS mode. When it is in the OFF position it is in Gesture mode.

GPS mode: ON

Slide the mode switch on the right of your remote to the "ON" position (Pic.1), to turn on GPS mode. In GPS mode you can precisely fly and hover with the assistance of the GPS module.

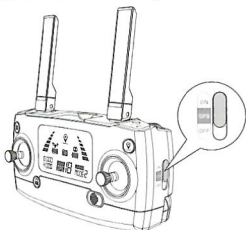
Important Tips: When the GPS signal is weak, the aircraft will automatically enter into Gesture mode (flying altitude \geq 3 meters) or vision positioning mode (flying altitude $<$ 3 meters).

Gesture mode: OFF

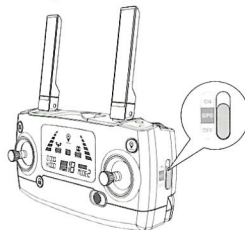
Slide the mode switch to the "OFF" position (Pic. 2), to set the aircraft to Gesture mode. In Gesture mode the GPS is not used for positioning, and the aircraft only uses the barometer to maintain altitude. The aircraft will not fly with precise positioning and hovering. Gesture mode requires a skilled pilot. In Gesture Mode, the aircraft cannot position itself or brake automatically, which increases the risk of potential flight hazards. The aircraft will be also more easily affected by its surroundings. Environmental factors such as wind can result in horizontal shifting, which may present hazards, especially when flying in confined spaces.

Vision positioning mode:

Once the GPS signal is weak or unavailable and the flying altitude is less than 3 meters, the aircraft will automatically enter into Vision Positioning Mode. Assisted by the vision system, the aircraft could perform precise positioning.

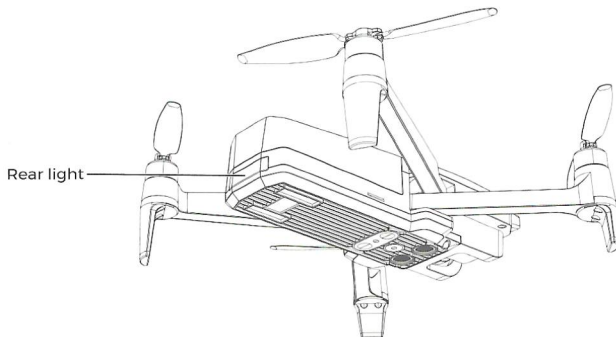


Pic. 1



Pic. 2

Aircraft Status Indicator Lights






Aircraft status indicator

| No. | Indicator status | Meanings |
|-----|---|---|
| 1 | Rear light flashes yellow rapidly. | Aircraft 2.4GHz dis connected. |
| 2 | Rear light flashes red, green and yellow alternatively. | Aircraft is in initialization detection status. |
| 3 | Rear light gl ows solid yellow. | No GPS signal, airc raft is in gesture mode. |
| 4 | Rear light gl ows solid green. | Good GPS signal, airc raft is preparing for GPS mode. |
| 5 | Rear light flashes green rapidly. | Aircraft is in gyroscope calibration status. |
| 6 | Rear light flashes yellow slowly. | Aircraft is in compass horizontal calibration. |
| 7 | Rear light flashes green slowly. | Aircraft is in compass vertical calibration. |
| 8 | Rear light flashes red slowly. | Aircraft voltage is nearly l ow, 1/6 battery power left. |
| 9 | Rear light flashes red rapidly. | Aircraft voltage is low, only 1/8 battery power left. |
| 10 | Rear light flashes red five times rapidly. | Something is wrong with ultrasonic altitude hold data and the aircraft is in barometer altitude hold. |
| 11 | Rear light flashes red once, stop for 1.5 second. | Something is wrong with the gyroscope. |
| 12 | Rear light flashes red twice, stop for 1.5 second. | Something is wrong with the barome ter. |

| No. | Indicator status | Meanings |
|-----|---|--|
| 13 | Rear light flashes red three times, stops for 1.5 second. | Something is wrong with the compass. |
| 14 | Rear light flashes red four times, stops for 1.5 second. | Something is wrong with the GPS module. |
| 15 | Rear light flashes red five times, stops for 1.5 second. | Something is wrong with the ultrasonic module. |
| 16 | Rear light flashes red six times, stops for 1.5 second. | Something is wrong with the vision positioning module. |

Return to Home (RTH)

The Return-to-Home (RTH) function brings the aircraft back to the last recorded Home Point. There are 3 types of RTH: smart RTH, low battery RTH and failsafe RTH. This section describes these 3 scenarios in detail.

|  | GPS | Description |
|--|---|---|
| Home Point |  | If a strong GPS signal (satellites over 7) was acquired before takeoff, the Home Point is the location from which the aircraft launched. The GPS signal strength is indicated by the GPS icon ( 7). The aircraft rear indicator lights will blink rapidly from yellow color to green color when the home point is recorded. |



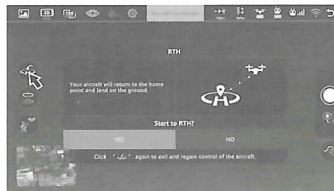
- The aircraft can not avoid obstacles when it is flying back with the RTH function initiated.
- The aircraft can not return to the Home Point when the GPS signal is weak or unavailable.
- The aircraft will stop ascending and immediately return to the Home Point if the user moves the throttle stick as the aircraft reaches 15 meters in altitude or beyond during Smart RTH.
- If there is no GPS signal and the remote controller signal lost for more than 6 seconds, the aircraft can not Return-to-Home but instead descends slowly until landing to the ground and locks the aircraft.

Smart RTH

When the GPS signal is available (more than 7 satellites are present), use the RTH button on the remote control (Pic. 1) or tap the RTH button in the "VTI Phoenix" APP (Pic. 2) and then follow the on-screen instructions to initiate Smart RTH. During the smart RTH, you can use the remote control to guide the aircraft around obstacles. You can press the RTH button again to exit the RTH procedure and regain control of the aircraft.





Pic. 1



Pic. 2

Low Battery RTH

The low battery level failsafe is triggered when the intelligent battery is depleted to a point that may affect the safe return of the aircraft. Users are advised to return home or land the aircraft immediately when prompted.

1. When the aircraft rear lights flash slowly, battery icon  is shown on the remote control or on the "VTI Phoenix" APP. A steady "beep beep beep... beep beep" sound is heard. At this moment, the aircraft will automatically return to the Home Point if the flying altitude is beyond 50 meters or the flying distance against the home point is beyond 100 meters.
2. When the aircraft's rear lights flash slowly, battery icon  is shown on the remote control or on the "VTI Phoenix" APP. A steady "beep..beep...beep" sound is heard. At this moment, the aircraft will automatically return to the Home Point if the flying altitude is beyond 15 meters or the flying distance against the home point is beyond 15 meters. If the aircraft flying altitude is less than 15 meters or the flying distance is less than 15 meters, the aircraft will automatically land to the ground.





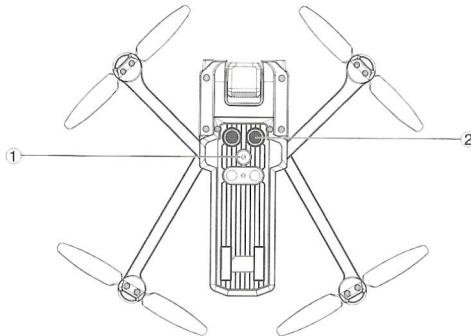
Attention: When the aircraft is automatically returning home with Low Battery RTH function activated, you can not cancel the RTH procedure by pressing the RTH button to regain control of the aircraft.

Failsafe RTH

If the Home Point was successfully recorded and the compass is functioning normally, Failsafe RTH will be automatically activated if the remote control signal is lost for over 6 seconds. Return-to-Home can be cancelled by the pilot, allowing you to regain control when the remote control signal connection is re-established.

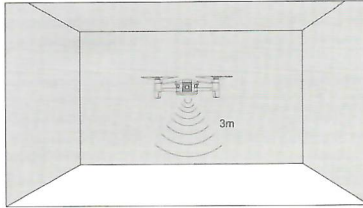
Vision System

Consisting of camera  Null.  the Vision System is located at front bottom of your aircraft. It is a positioning system that is composed by image and ultrasonic sensors. Your aircraft acquires its location through using the camera sensor to detect the ground texture and visible features. Meanwhile, assisted by the ultrasonic sensor, your aircraft could determine its altitude, better insuring fly safety and precise positioning.



Vision Positioning System function

The Vision Positioning System is typically used in indoor environments when the GPS is weak or unavailable. It works best when the aircraft altitude is less than 3 meters.



The precision of the vision system is easily affected by the light strength and features of the surface textures. The ultrasonic sensor alone could work normally to detect the altitude if it is flying over objects consisting of sound absorbing materials. But if the image sensor and ultrasonic sensor are both not available, your aircraft will switch to Gesture mode automatically. Be cautious when operating the aircraft in the following situations:

1. Flying fast at an altitude below 0.5m.
2. Flying over monochrome surfaces (like pure black, pure red, pure green and pure blue).
3. Flying over strong light reflective surfaces or surfaces prone to reflection.
4. Flying over water or transparent object surfaces.
5. Flying over moving object surfaces (such as crowds, swaying jugs and glass).
6. Flying over an area where light changes dramatically and rapidly.
7. Flying over surfaces that are extremely dark ($\text{Lux} < 10$) or extremely bright ($\text{Lux} > 10,000$).
8. Flying over material surfaces that are good at absorbing ultrasonic waves (like thick carpet).
9. Flying over surfaces without clear textures.
10. Flying over surfaces with highly repeating textures (like a brick wall).
11. Flying speeds should be controlled and not to be too fast. When the aircraft is 1 meter above the ground, the flying speed should not be over 5m/s; When the aircraft is 2 meter above the ground, the flying speed should not be over 14m/s.

- Keep sensors clean at all times.
- The vision system is only effective when the aircraft is within an altitude range of 3 meters.
- Make sure that the light is bright enough and surfaces have clear textures so that the vision system can acquire the movement information through recognizing the ground textures.
- The vision system may not function properly when the aircraft is flying over water, low light ground and surfaces without clear patterns or textures.
- Do not use other ultrasonic devices with a frequency of 40KHz when the vision system is in operation.



Attention: Keep animals away from the aircraft when the vision system is activated. The ultrasonic sensor emits high frequency sounds that are audible to some animals.

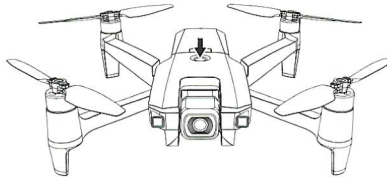
Aircraft Power Switch

Turn on the aircraft

Once the battery is inserted securely, press and hold the power button for 3 seconds. The aircraft makes beeping sounds and the rear light keeps flashing.

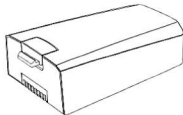
Turn off the aircraft

Press and hold the power button for 3 seconds, the aircraft's light goes off and the aircraft will then power off.

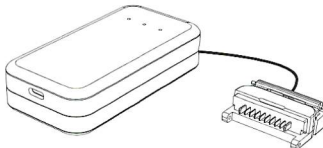


Aircraft Battery

- Made by high-energy battery cells
- Standard battery capacity is 7.6V 2050mAh



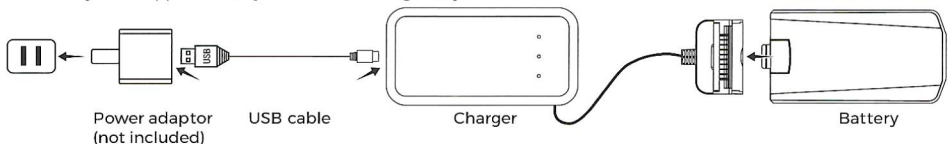
Aircraft battery



Charger

Charging the aircraft battery

- The aircraft's battery needs to be fully charged before every flight
- Please use the included charger in order to charge the aircraft's battery
- The battery takes approximately 3-5 hours to charge fully



Power adaptor
(not included)

USB cable

Charger

Battery

⚠ Do not let children play with this aircraft without adult supervision.

● Insert batteries with correct polarity.

● Rechargeable batteries are to be removed from the aircraft before being charged.

● Rechargeable batteries are only to be charged under adult supervision.

● Exhausted batteries are to be removed from the aircraft.

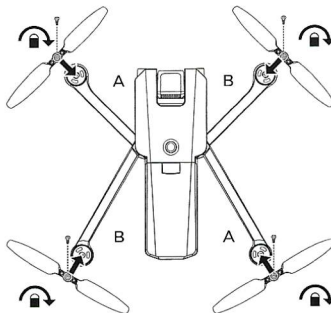
● The supply terminals are not to be short-circuited.

● The charging line should regularly be examined for potential hazards, such as damage to the cable, cord, plug, enclosure or any other parts. In the event of such damage, the product must not be used until such damage has been properly removed.

Attaching and Detaching the Propellers

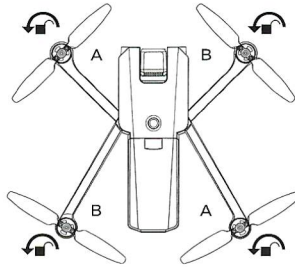
Attach the propellers

Install propeller A and propeller B on the corresponding motor shaft and fix the propellers screws tightly by rotating them in a clockwise direction. (A/B markings are at the bottom of each propeller.)



Detach the propellers

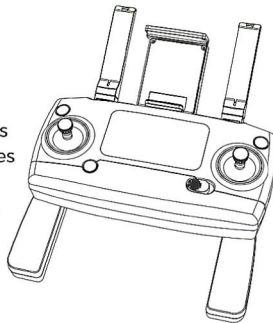
Take out the screws by rotating them in counter-clockwise direction and then remove the propellers.



- Please make sure that the propellers are attached to the correct motors, because the aircraft will not fly normally if the wrong propellers have been attached.
- Be aware of the sharp edges of the propellers. Handle with care.
- Use only original default propellers. DO NOT mix propeller types.
- Stand clear of the motors and DO NOT touch the propellers when they are spinning.
- Check that the propellers and motors are installed correctly and are attached securely before every flight.
- Ensure that all propellers are in good condition before each flight. DO NOT use aged, chipped, or broken propellers.
- To avoid injury, STAND CLEAR of and DO NOT touch propellers or motors when they are spinning.
- ONLY use original default propellers for a better and safer flight experience.


PART 3: Remote Control

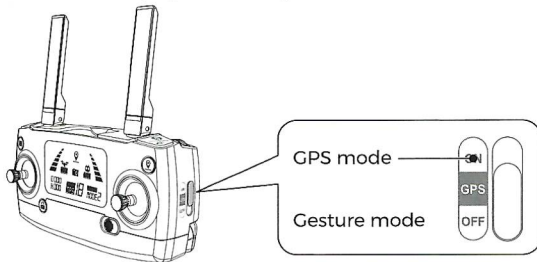
This section describes the features of the remote control, and includes instructions on how to use the remote to control the DRC-LSX10.



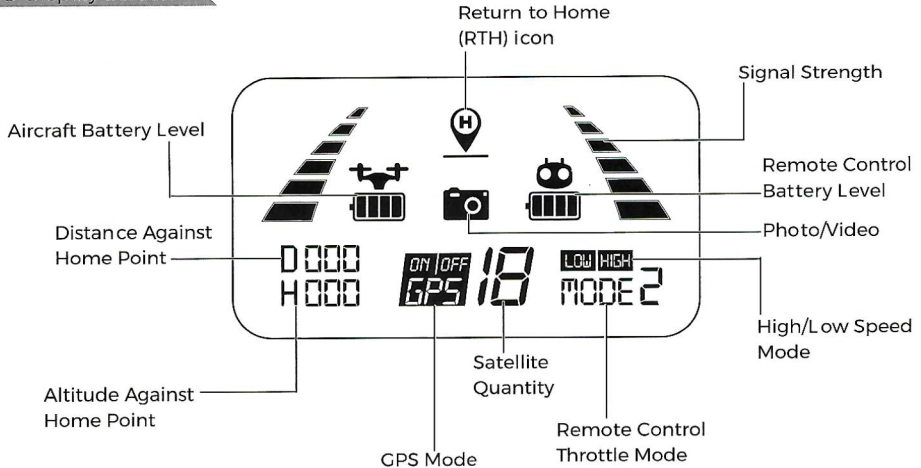
Remote Control Functions and Status

Flight Modes

Slide the mode switch located on the side of your remote to the ON position for GPS mode or the OFF position for gesture mode. The LCD display screen on your remote will show the current status as a  symbol will appear.



LCD Display Screen

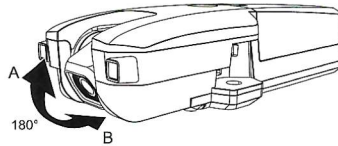
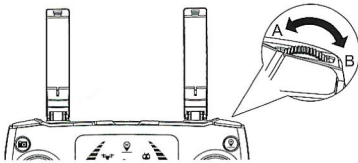


Aircraft Status Indicator

| No. | Remote Control Status | Description |
|-----|--|--|
| 1 | Signal strength indicator changes circularly from weak to strong. | The remote control is receiving an aircraft signal. |
| 2 | Indicator lights flash slowly with a "beep beep... beep beep" sound emitted and a "🔋" symbol flashing on the LCD display screen. | The remote controller is in low voltage status. Please replace the batteries immediately. |
| 3 | A "🔋" symbol is displayed on the LCD screen, and a "beep beep beep...beep beep beep" sound is emitted. | Battery is almost low "🔋"; the aircraft will return when the altitude is over 50m or the distance is over 100m. |
| 4 | A "🔋" symbol is displayed on the LCD screen, and long, steady beeping sounds are emitted. | Battery is low "🔋"; the aircraft will return when the altitude is over 15m or the distance is over 15m; if either the flying altitude or flying distance is less than 15m, the aircraft will land at that spot. |
| 5 | The LCD display screen is showing a signal strength of two or fewer bars, and a steady, long beeping sound is emitted. | <ol style="list-style-type: none"> The distance between aircraft and remote controller is so great that the signal is weak. The battery is removed after the aircraft connects to the remote controller. |

Gimbal trimmer

The camera angle can be adjusted within a 180 degree range by operating the gimbal trimmer to obtain a better aerial experience. Roll the gimbal trimmer to the left (see point A in the graphic below) and the camera will tilt upwards. Roll the gimbal trimmer to the right (see point B in the graphic below) and the camera will tilt downwards.

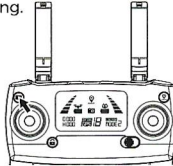


The camera can be rotated 180 degrees.

Photo/Video

Tap the photo/video button on the remote control. The camera icon "📷" on the LCD screen will flash once as the camera takes one photo.

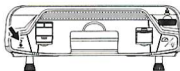
Press and hold the photo/video button and the camera icon "📷" on the LCD screen flashes slowly. The camera is recording video. Press and hold again and it will stop recording.



Attention: When a Micro SD card is not inserted in the aircraft, or if your model aircraft lacks a memory card slot, photos and videos can not be recorded by pressing the photo/video button on the remote control. Use the software application on your phone as an alternative.

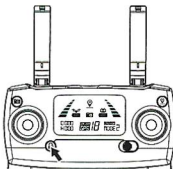
One-key takeoff/landing

- After unlocking the DRC-LSX10, tap the "⏏" button (see below), and the aircraft will automatically take off and hover at 1.5m altitude.
- When the aircraft is flying, tap the "⏏" button (see below), and the aircraft will automatically land on the ground.



Emergency stop

Press the "🔒" button for 3 seconds to stop the flight immediately. Only do this in urgent, emergency situations as it may cause the aircraft to crash.



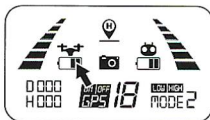
Smart RTH button

- Press the "🏠" button to start the RTH (return to home function). The remote control will emit a beeping sound and the aircraft will fly back to the recorded Home Point.
- Press the RTH button again to end the RTH procedure and regain control of the aircraft.
- For more information about RTH, please turn to the Return to Home section of this manual.

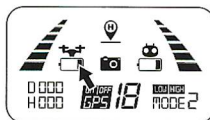


Low battery warning

- When the "🔋" icon appears on the LCD screen (Pic. 1) and the remote control emits a "beep beep beep...beep beep" sound, it means that the aircraft battery is running low on power. The rear light of the aircraft will turn red and flash slowly. The aircraft will enter the smart RTH mode when the altitude is over 50m or the distance is over 100m.
- When the "🔋" icon appears on the LCD screen (Pic. 2) and the remote control emits "beep...beep" sound, it means that the aircraft battery is nearly out of power. The rear light of the aircraft will turn red and flash rapidly. The aircraft will return when the altitude is over 15m or the distance is over 15m; if either the flying altitude or flying distance is less than 15m, the aircraft will land on the ground.




Pic. 1



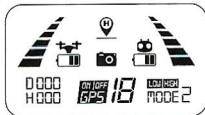
Pic. 2

Signal strength indicator

- The signal strength bar "📶" shows the strength of the received signal. The more, the better.
- When the signal strength bar "📶" changes from weak to strong, it means that the remote controller is receiving a signal from the aircraft.

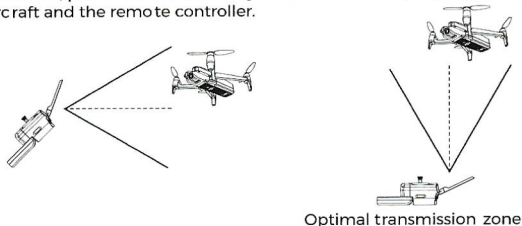
● There are 2 situations in which the signal strength bar  drops below 2 grids with the remote emitting steady, long beeping sounds.

- 1) The distance between the aircraft and the remote control is too far causing a weak signal.
- 2) The battery is removed after the aircraft connects to the remote controller.



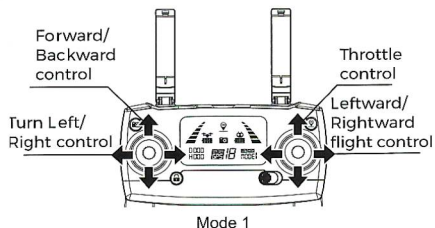
Optimal transmission zone

To obtain a satisfied flight experience, please make sure that your DRC-LSX10 is flying in front of the remote control and no obstacles are between the aircraft and the remote controller.

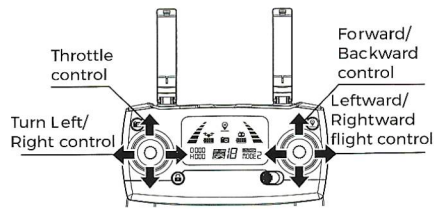


Throttle Control Stick Mode

Throttle mode switch



Mode 1



Mode 2

Mode 1: The right stick serves as the throttle.

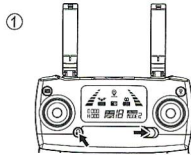
Mode 2: The left stick serves as the throttle.

● The remote controller is set at Mode 2 by default.

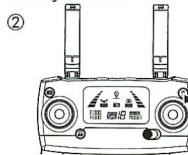
How to change throttle mode

Step 1. Slide the power switch to the ON position to power on the remote control. Then press the lock button to unlock the remote so that it sends and receives signal from the aircraft. (Pic. 1)

Step 2. Press and hold the RTH button "Ⓢ" for 3 seconds to choose the throttle control mode (Pic. 2). The mode number is shown on the LCD screen. The throttle control mode is set at mode 2 by default.



Pic. 1



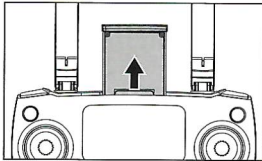
Pic. 2



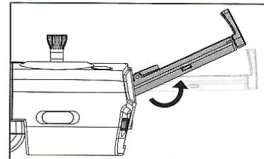
Attention: Make sure that the remote is powered on, unlocked and receiving a signal in order to change throttle modes.

Installing the Mobile Phone Holder

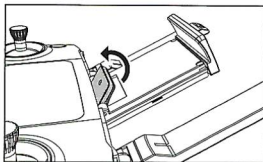
1. Pull the mobile phone holder as far up as possible (Pic. 1);
2. Tilt the holder 30 degrees towards you and you will hear a click sound (Pic. 2);
3. Rotate and fix the support board to keep it securely in place (Pic. 3);
4. Adjust the mobile phone holder upward or downward according to the size of your mobile phone (Pic. 4).



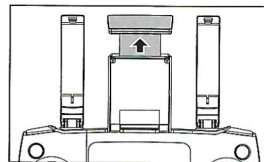
Pic. 1



Pic. 2



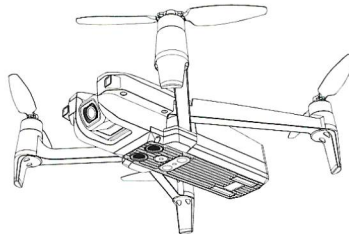
Pic. 3



Pic. 4

PART 4: App Download & Installation

This section explains how to download the "VTI Phoenix" APP and connect with mobile device.




Downloading the "VTI Phoenix" Software Application

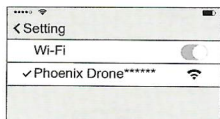
Where to download "VTI Phoenix" APP

1. For Apple iOS users, please go to the Apple App store, and search "VTI Phoenix" or scan the QR code below to download the software application.
2. For Android users, please go to the Google Play store, and search "VTI Phoenix" or scan the QR code below to download the software application.



How to link the app to the aircraft's camera

Power on the aircraft, then enter your phone's settings menu. Turn on WiFi, find "Phoenix Drone*****" on the list and connect it. When the  symbol appears, it means WiFi has been successfully connected. Exit the settings menu and tap the "VTI Phoenix" APP on your mobile device. Click "GO" to enter into the real-time image transmission interface.



Connect WIFI



Tap "VTI Phoenix" App



Click "GO"

Photo and video saving feature

1. If the camera does not have Micro SD card support, videos and photos will be saved at the APP.
2. If the camera has Micro SD support, videos and photos will be saved on the memory card.
3. Videos and photos in a memory card can also be downloaded to the APP.



Note: Please make sure that your mobile device supports 5G WIFI before linking "VTI Phoenix" to your device.



Real-time image quality and FPV (first person view) distance are dependant on your smart phone and flight environment.

To obtain the best live view, please choose a wide open area to fly in. As tested, the DRC-LSX10 could transmit real-time images up to 400 meters in an environment with no interference.

Remarks: The real-time images transmission distance may be different due to different mobile phone brand & model No.

PART 5: Flight

This section reviews safe flight requirements and basic aircraft operations.



Environmental Requirements

1. Please don't fly in areas with extremely high temperatures, snow, strong wind (level 5), rain or fog.
2. Always choose a wide open area for every flight. Tall structures and large metal structures may affect the accuracy of the onboard compass and GPS system.
3. Never fly directly over people or animals.
4. To minimize interference, please do not fly the aircraft in locations near power lines, base stations, electrical substations and broadcasting towers.
5. Aircraft and battery performance is subject to environment factors like temperature. Be very careful when flying over 6KM above sea level since the performance will be affected.
6. Your aircraft cannot use GPS within polar regions.

Flight limits and GEO zones

Abide by all laws and regulations when flying your aircraft. Flight limitations are applied by default to help users operate this product safely and legally. Flight limitations include altitude limits, distance limits and GEO Zones. Altitude limits, distance limits and GEO Zones function concurrently to manage flight safety when operating in GPS Mode.

Pre-flight Checklist

Before flight, make sure that:

1. The aircraft, remote control and mobile device are full charged;
2. The propellers are installed correctly;
3. The arms and propellers are properly unfolded;
4. The camera lens is clean;

Operating Your Aircraft

Synchronizing the aircraft and remote control

1. Your drone is specifically designed for outdoor flying. Do not attempt to fly your drone or calibrate it indoors.
2. Make sure that the GPS Mode Switch on your remote control is in the ON position before calibrating.

● Press and hold the lock/unlock button "🔒", in the meanwhile slide the power switch to the ON position to power on the remote control (needs to be press the lock /unlock button and slide the ON/OFF button at the same time). The remote control will make 2 beeping sounds, and the "📶" indicator light will flash, indicating that the remote control is ready to send a signal.

● Power on the aircraft (Pic. 2). The aircraft will make beeping sounds, its rear light will start flashing it and it will automatically link to the remote control. The remote control will send out a long beeping sound and the indicator light of the remote control will stop flashing and shine steadily. The "📶" symbol will appear steadily on the LCD screen, once the remote control and aircraft are synchronized.



Pic. 1



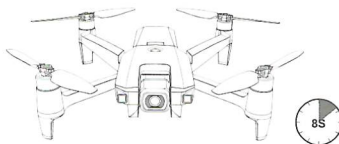
Pic. 2



● Unless you attempt to use your remote control with a second aircraft, you will only need to synchronize it with your aircraft the first time you use it.

Aircraft Initialization

Once you have synchronized your aircraft with your remote control, the aircraft enters into a brief 8 second initialization. Its rear light will alternately flash red, green and yellow alternatively. Make sure that the aircraft is set on a flat and still surface as your aircraft initializes. Once the remote control emits a "Di Di" sound, and the aircraft's rear light flashes yellow, initialization is completed.



Attention: Make sure that the aircraft is placed on a flat and stable surface when initializing.

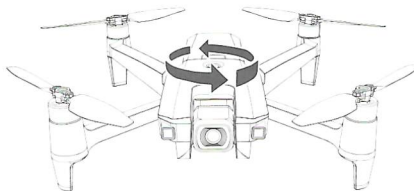
Aircraft compass calibration

1. Compass calibration should be performed after your aircraft is successfully initialized.
2. Aircraft compass calibration should be done every time you fly, including every time batteries are replaced or recharged.

Follow the steps below to calibrate the aircraft's internal compass:

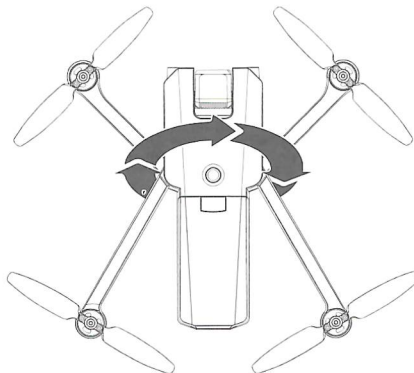
Step 1: Horizontal calibration

After successful aircraft initialization, the aircraft's rear light flashes yellow. Hold the aircraft horizontally and rotate it 360 degrees along the central axis for about 3 rotations. The aircraft's rear light will change from flashing yellow to flashing green when horizontal calibration is complete.



Step 2: Vertical calibration

Hold the aircraft with the camera facing up, and rotate it 360 degrees along the central axis for about 3 rotations until the rear light of the aircraft changes from flashing to solid, indicating that the compass has been calibrated successfully.





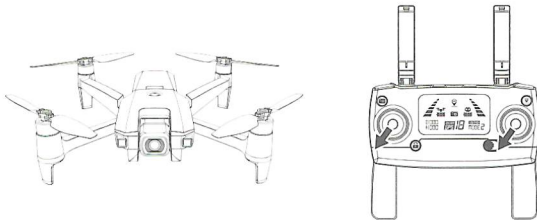
Attention: To fly in GPS mode, please choose an open and wide open space for flight, making sure that the satellite amount is over 7.



- Please do not calibrate the compass in strong magnetic areas, such as amagnetic field, parking place or construction zones with underground rein forcement.
- Please do not carry magnetic materials with you (such as keys, cell phones, etc) when calibrating the compass.
- Please keep away from metal when calibrating the compass.

Gyroscope calibration

When the compass calibration is finished, place the aircraft on a flat surface and follow the actions in the graphic below to calibrate the gyroscope. Once the aircraft's rear light turns from flashing to solid, it means that the gyroscope has been calibrated successfully.



- The gyroscope comes pre-calibrated by default. The gyroscope does not need to be calibrate unless the air craft is not initializing properly.
- Please make sure to place the aircraft on horizontal surface when performing calibration, failure to do this will affect the flight.

How to lock and unlock the aircraft

● **Unlock the aircraft**

Press the lock but ton "🔒". The motors rotate and the aircraft is unlocked.

● **Lock the aircraft**



There are 2 ways to lock the aircraft:

Method 1: Press and hold the lock but ton "🔒" for 3 seconds. The motors will stop rotating immedia tely and the aircraft is locked.

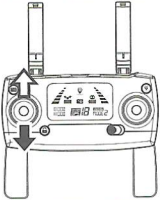

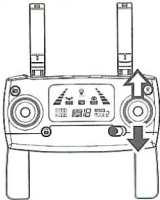
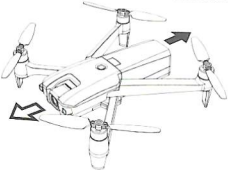
Method 2: After the aircraft lands on the ground, pull the throttle stick all the way down and keep it down for 3 seconds. the motors will stop rotating and the aircraft is locked.

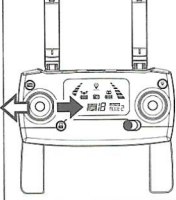
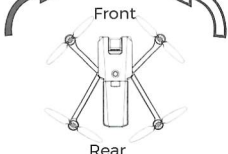
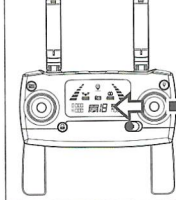
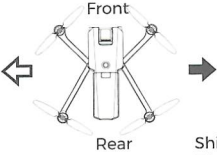


Tips:

- Please do not lock the aircraft by pressing the “” button directly during the flight.
- Press the “” button for 3 seconds to stop the flight ONLY when the aircraft encounters emergency, or the aircraft has crashed.

Operating the aircraft

| Remote control | Aircraft |
|--|--|
|  | <p>Ascent</p>  <p>Descent</p> |
|  | <p>Backward</p>  <p>Forward</p> |

| Remote control | Aircraft |
|---|---|
|  | <p>Turn Right</p>  <p>Front</p> <p>Rear</p> <p>Turn Left</p> |
|  | <p>Shift Left</p>  <p>Front</p> <p>Rear</p> <p>Shift Right</p> |

Test Flight

Basic flight operation steps

1. Place the aircraft in a wide open area so that you are directly facing the front of the aircraft.
2. Turn on the aircraft and remote control.
3. Connect the remote control with the aircraft and then proceed to the aircraft initialization steps.
4. Connect the DRC-LSX10 with your phone.
5. Unlock the aircraft after the gyroscope detection of the aircraft is complete.
6. Pull up the throttle stick and the aircraft takes off. Control the aircraft using the left and right stick.
7. Pull down the throttle stick to land the aircraft.
8. Pull down the throttle stick to the bottom position and keep it down for 3 seconds to lock the aircraft.
9. Pull out the battery from the aircraft and then turn off the remote control.

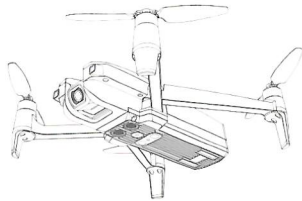
Video suggestion and tips

1. Do a pre-flight checklist;
2. Choose appropriate gimbal shooting angles;
3. Fly in a good weather with no wind;
4. Perform test flights to establish flight routes and to preview scenes;
5. Push the control stick gently to keep the aircraft movement smooth and stable.



Please keep proper operation and flight safety guidelines in mind for your own safety and others around you as well. For more information, please turn to Appendix.

PART 6: Appendix



Product Specifications

| | |
|---|---|
| Aircraft | DRC-LSX10 |
| Gross Weight (Battery and propellers included) | about 360g |
| Dimensions | Folded: 230*70*65mm (length*width*height) Unfolded: 305*320*65mm (length*width*height) |
| Diagonal | 240mm |
| Max Ascent Speed | 3m/s |
| Max Descent Speed | 2m/s |
| Max Speed | 36km/h |
| Flight Height Limitation | 120m |
| Max Flight Time | 18-19 minutes (no wind) |
| Max Wind Speed Resistance | ≤Level 3 |
| Max Tilt Angle | 35° |
| Max Angular Velocity | 200°/s |
| Operating Temperature Range | 0 C -40 C |
| GNSS | GPS |
| Hovering Accuracy Range | Indoor: Vertical ±0.5m Horizontal ±0.3m Outdoor: Vertical ±0.5m Horizontal ±1.5m |

| | |
|---------------------------|--|
| Operating Frequency | 2.4-2.4835GHz 5.15-5.35GHz |
| Transmission Power (EIRP) | 2.4GHz≤20dBm 5GHz≤16dBm |
| Gimbal | |
| Controllable Range | Tilt: -90° to 90° |
| Camera | |
| Image Sensor | 1/3" CMOS; Effective Pixel: 2 million |
| Lens | FOV: approx. 110° Aperture: f/2.2 Shooting Range: 1m to ∞ |
| ISO Range | Photo: 100-1600 (Auto) Video: 100-1600 (Auto) |
| Electronic Shutter Speed | Electronic Shutter: 1/30s-1/10000s |
| Still Image Size | 2048X1152 |
| Still Photography Modes | Single Shot |
| Video Resolution | 2048X1152 |
| Color Mode | RGB Mode |
| Max Video Bitrate | Video 8Mbit/Transmission 2Mbit |
| Supported File System | FAT32 |
| Photo Format | JPEG Format |
| Video Format | MP4, Compressed Format H.264 |
| SD Cards | Support Class 10 Micro SD card up to 32G. ≥ Class 10 Micro SD Cards |
| Operating Temperature | 0 C -40 C |
| Remote Control | |
| Operating Frequency | 2.4-2.4835GHz |
| Max Transmission Distance | 0.6km |
| Operating Temperature | 0 C -40 C |
| Battery | 2* AA |
| Transmission Power (EIRP) | 2.4GHz≤20dBm |
| Operating Current/Voltage | 200mA@3V |

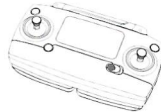
| Charger | |
|------------------------------|--|
| Input | 5V 2A |
| Charging Voltage | 7.6V \pm 2A |
| Rated Power | 7.6W |
| Aircraft Battery | |
| Capacity | 2050mAh |
| Voltage | 7.6V |
| Battery Type | LiPo 2S |
| Energy | 15.58Wh |
| Net Weight | about 98g |
| Charging Temperature Range | 5 C -40 C |
| Charging Time | 3-5 hours (depends on the adaptor specification) |
| APP | |
| APP Name | VTI Phoenix |
| Image Transmission System | WIFI 5GHZ |
| Real-time Image Transmission | 720p@20fps |
| Latency | 300-400ms |
| Required Operating System | iOS 9.0 or later Android4.4 or later |

Package Contents

Full package includes the following parts.



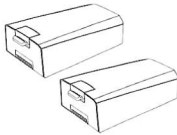
Aircraft *1



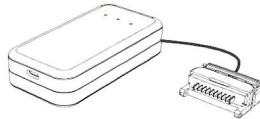
Remote Control *1



Extra Propellers *4



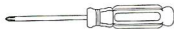
Aircraft Battery *2



Charger *1



USB Cable *1



Screwdriver *1



User's Manual *1



Carrying case *1

Important Statement

- This aircraft is not a toy. It should be assembled and operated properly. Pilots must operate this aircraft in a safe way. Improper operation may cause injury or property damage.
- This aircraft is suitable for pilots aged 14+ who have experience piloting a drone styled aircraft.
- The manufacturer of this product is not responsible for damages caused by misuse.
- Keep small accessories away from children and the infirm to avoid accidents.

Flight Safety Guidelines

Users should firmly uphold the principle of "safety comes first" when flying this aircraft. Never fly the aircraft near airports, above crowds or in zones storing dangerous goods and be mindful of the damage that can be caused by improper operation.

- Your drone is specifically designed for outdoor flying. Do not attempt to fly your drone or calibrate it indoors.
- Stay away from obstacles, crowds, power lines, trees or water.
Always choose a wide open area for every flight, well away from people and property. Never fly directly over people or animals. Don't fly in bad weather conditions, high temperature, snow, strong wind (level 5), rain or fog. Maintain a 7ft (2m) distance from the aircraft when taking off and landing.
- Keep the aircraft in a dry environment.
The aircraft is composed of sophisticated electronic components and mechanical parts. To avoid damage of the mechanical and electronic components, please keep the aircraft in a dry environment and use a clean, soft cloth to wipe the surface and keep it clean.
- Practice flying together with a skilled, experienced pilot.
Beginners are recommended to practice flying with a skilled pilot's guidance. Do not fly alone.
- Keep proper operation and safe flight guidelines in mind.
Please take a careful look at this manual before flying for important information regarding the product's functions and operating tips. Stay informed of and abide strictly by relevant local laws and regulations. Keep away from any non-flight zones and respect other people's privacy.
- Safe flying
Please make sure you are in good shape mentally before every flight. Fly the aircraft as per your flying experience. Never fly under influence of alcohol or drugs. Keep the remote control at least 20 cm away from your body when flying the aircraft.
- Keep distance from a flying aircraft.
Never use your hands to touch a flying aircraft under any circumstance. Don't approach and touch a landed aircraft before its propellers are completely locked.

- Keep away from heat sources

This aircraft is made of metal, fiber, plastic, electronic components and other materials. Please keep it away from heat sources to avoid deformation or even damage caused by sun exposure and high temperature.

- Environmental protection requirements

To protect our lovely planet, please recycle this aircraft as per local laws and regulations.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

