# VIVITAR EYE IN THE SKY

LIVE STREAMING

## WIFI QUADCOPTER DRONE & VR HEADSET

DRC-125
USER'S MANUAL

VIVITAR


2017 Vivitar International Sales/Pre-Sale
Vivitar Inc. 1630 E. Walnut Ave. Fullerton, CA 92831
Telephone:(714) 832-2131 Fax: (714) 832-2137 / (800) 847-3901

Vivitar Europe Limited
4th Floor, Building 2, Chiswick Park, 566 Chiswick High Road, London, W4 5YA, United Kingdom



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## 1. FOREWORD

Thank you for purchasing the Vivitar WiFi Quadcopter Drone and VR Headset, item DRC-125. This included remote controlled aircraft is designed specifically for outdoor flying. Also included is a VR headset that can be used to get an aerial view of your flights in real time. Please read this manual carefully before using. In addition, be sure to keep this manual in a safe place for future reference.

WARNING LEVEL DEFINITIONS

| | |
|---|---|
| ⚠ WARNING | Moderately caused by failure to follow these instructions may result in damage or injury. |
| ⚠ CAUTION | Minimally caused by failure to follow these instructions may result in damage. |
| ⚠ | Do not attempt under any circumstances. |

IMPORTANT NOTES ABOUT YOUR DRONE

Your drone is not a toy. It is a stimulus remote control six-axis aircraft. It is safe to use, as long it is used as indicated in this instruction manual. This device should only be dismantled, disassembled or serviced by trained professionals. Improper use of this product may be dangerous and can lead to accidents or personal injury.

The manufacturer assumes no liability for accidental damages caused by improper assembly, or any unsafe usage of this device. This product is intended for use by individuals aged 14 years or older. Please ensure that this product is used in a safe environment.

We recommend that you seek the assistance of an experienced pilot before attempting to fly this aircraft for the first time. This aircraft requires a certain degree of skill to operate, and is subject to normal wear and tear. Any damage or dissatisfaction that result from accidents or modifications are not covered by this product's warranty.

## 2.USING YOUR DRONE: PRECAUTIONS

⚠ CAUTION Fly only in safe areas away from other people. Do not operate this aircraft in the vicinity of large crowds. This aircraft can be prone to accidents caused by pilot error or radio interference. The pilot of the aircraft is responsible for any damage or injury caused in such instances.

**Vivitar One Year Warranty**

This warranty covers the original consumer purchaser only and is not transferable.

This warranty covers products that fail to function properly UNDER NORMAL USAGE, due to defects in material or workmanship. Your product will be repaired or replaced at no charge for parts or labor for a period of one year.

**What Is Not Covered by Warranty:**

This warranty does not include or cover defects in material or workmanship and damages or malfunctions from other than normal use, including but limited to, repair by unauthorized parties, tampering, modification or improper use.

**To Obtain Warranty Service and Troubleshooting Information:**

Call 1-800-592-8097 or fax U.S. or EUROPE/FLORIDA to the US or Visit our website at www.vivitar.com.

To receive Warranty service along with the name and address of an authorized product service center, the original consumer purchaser must contact us for problem determination and service procedures. Proof of purchase in the form of a bill of sale or receipted invoice, evidencing that the Product is within the applicable warranty period, must be provided to obtain warranty service. Also, the purchaser must be prepared to ship the properly packaged and sent in any defective products along with a dated copy of proof of purchase, a written description of the problem, and the return address. Products returned without proof of purchase or which do not indicate any other terms or accessories with the defective product, they products received by the authorized service center that are not covered by warranty will be returned unopened.

NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL EXTEND TO ANY PERSON OTHER THAN THOSE EXPRESSLY DESCRIBED ABOVE SHALL APPLY. DISTRIBUTOR FURTHER DISCLAIMS ANY WARRANTIES, EXPRESS OR IMPLIED, IN ANY ADVERTISEMENT, DOCUMENT OR ORAL STATEMENT ANY OTHER WARRANTY OF DISTRIBUTOR OR ANY OTHER PERSON, FIRM OR ENTITY WITH RESPECT TO THE PRODUCT DESCRIBED IN THE MANUAL. IN NO EVENT WILL DISTRIBUTOR BE LIABLE FOR ANY LOSS OF THE ORIGINAL PURCHASE PRICE, LOST DISTRIBUTOR'S SOLE CONSIDERATION, AND THE EXCLUSIVE REMEDIES OF THE CONSUMER. IN NO EVENT WILL DISTRIBUTOR, ITS MANUFACTURERS, OR ANY OTHER PERSON, FIRM OR ENTITY BE LIABLE FOR ANY LOSS OF PROFITS, LOSS OF GOODWILL, DAMAGE TO OR LOSS OF OTHER PROPERTY OR EQUIPMENT, INCIDENTAL, CONSEQUENTIAL, DAMAGES (SUCH AS, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFITS, BUSINESS, SAVINGS, DATA OR RECORDS) CAUSED BY THE USE, MISUSE OR INABILITY TO USE THE PRODUCT, EVEN IF DISTRIBUTOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR ARISING FROM ANY CLAIM BY ANY OTHER PARTY. CONSUMER'S RECOVERY AGAINST DISTRIBUTOR SHALL NOT EXCEED THE ORIGINAL PURCHASE PRICE OF THE PRODUCT. THE LIMITATIONS SET FORTH ABOVE SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL CONSUMER WHO PURCHASED THE PRODUCT AND IS NOT TRANSFERRABLE.

Some countries, states or provinces do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations may not apply in you. This warranty gives you specific legal rights, and you may have other rights that vary from country to country, state to state, or province to province. Repair or replacement as provided under this warranty is your exclusive remedy. This product is manufactured, distributed and sold by SAKAR International, Inc. All trademarks and trade names are the property of the respective owner, who has not sponsored, endorsed or approved this product.



NOTE: 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

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.

KEEP AWAY FROM OBSTACLES, HEAT AND ELECTRICAL WIRES

This product is most suitable for outdoor use. Avoid using in 10 mph or higher winds. Please do not use in inclement weather. Do not fly near or over buildings or structures, flying away from crowds of people and pets. Don't use in locations that are unsafe, such as near sources of heat or electricity.

AVOID MOISTURE

There are many sophisticated electronic components inside of your aircraft. As such, it is essential to avoid exposing your aircraft to moisture or water vapor. Avoid using your aircraft in wet weather. Make sure that the internal electronic components are not exposed to moisture or water vapor as well.

PROPER OPERATION

Please do not attempt to modify, upgrade or alter your aircraft in ways not suggested by the manufacturer. Please only use the original parts and accessories to ensure safety.

SAFETY NOTE FOR NiMH BATTERIES

Make sure batteries are inserted with the correct polarity as indicated in the battery compartment. Do not mix different types of batteries or old and new batteries. In order to avoid leakage, remove the batteries if you do not plan on using your device for extended periods of time. Please dispose of depleted batteries according to local laws and ordinances. Do not dispose improperly.

SAFETY NOTE ON LITHIUM POLYMER BATTERIES

Lithium Polymer (Li-Po) batteries can pose higher operational risks compared to other types of batteries if used incorrectly. The manufacturer assumes no liability for accidental damages caused by improper use of Li-Po batteries. Please read the following safety precautions carefully before using Li-Po batteries included with your unit. Do not crush, puncture, short circuit, or reverse the polarity of the battery. Do not allow the battery's contacts to come into contact with metal or metallic objects. To avoid fire or explosion, do not place in water or fire. Do not charge the battery if it shows signs of damage or if it is at the risk of children. Stop using any battery which get abnormally hot, or start to expand or become deformed. Please dispose depleted batteries according to local laws and ordinances.Do not dispose improperly.

STAY AWAY FROM HEAT

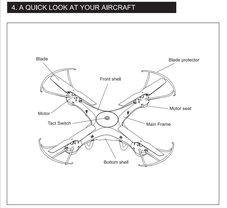
Your aircraft and its remote control are made from various forms or plastic. Plastics are very susceptible to damage or deformation caused by extremely hot or cold climates. Do not store your device near extreme sources of heat. When not in use, try to store your device in a cool, dry place.



## 3. PACKAGE CONTENTS

ACCESSORIES FOR VR HEADSET

## 4. A QUICK LOOK AT YOUR AIRCRAFT






## 17. INSERTING YOUR SMARTPHONE INTO YOUR HEADSET

Once you've downloaded suitable video content onto your smartphone, you can insert your smartphone into your headset. To do so, follow the steps below.

1. On your smartphone, open up the VR video content which you have downloaded and set it to playback in split screen mode.

2. Open your headset. Left on the Front Sliding Panel handle to remove the Front Sliding Panel.

3. Attach your smartphone to the inside of the Front Sliding Panel. Align the camera lens on your smartphone to the hexagon hole in the headset front of the headset. Ensure that your smartphone is secure.

4. Take the Front Sliding Panel back into your headset so it sits snugly against your face.

## 18. VIEWING VR CONTENT ON YOUR HEADSET

Once you've downloaded VR content onto your smartphone and inserted your smartphone into your headset, you can now enjoy your virtual reality content. Follow the steps below.

1. Use the adjustable head strap to secure your headset to your head. Make sure that it is tight enough so that it does not fall off, but not so tight that it becomes uncomfortable.

NOTE: It is not advised to use your headset while wearing glasses or other eye wear. Please take off your glasses before putting your headset on. If possible wear contact lenses instead.

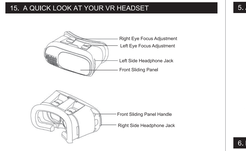
2. Use the Right Eye Focus Adjustment and Left Eye Focus Adjustment so that you can see your video content as clearly as possible. Always make adjustments before you start watching your video content.

## 19. ENHANCING YOUR VIEWING ANGLES

While viewing videos, you can tilt your head left and right to enhance your viewing angles by utilizing the motion sensor of your phone .



## 15. A QUICK LOOK AT YOUR VR HEADSET




## 16. DOWNLOADING VR CONTENT ONTO YOUR SMARTPHONE

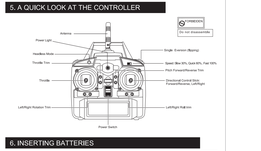
You can use your headset to play games or watch exciting video content. Before doing so, you need to download suitable content onto your smartphone. You can download VR content from either the Google Play store on Android phones or the App Store on Apple iPhones. A quick search for VR or Virtual Reality games, movies, or videos should yield a number of results. Below are a few examples of popular free VR applications.

| | | |
|---|---|---|
| GOOGLE CARDBOARD: FREE VR EXPERIENCES TO TRY IN A GOOGLE SEARCH, CHECK OUT MORE. | CLEAR POINT VR: FREE VR EXPERIENCE TO TRY FROM GOOGLE PLAY STORE. | VRX: EXPERIENCE CREATED EXPRESSLY WITH CARDBOARD IN MIND. SOLID FIDELITY. |
| DOCTOR VR: FREE VR GAME ON THE GAME. | GERM BUSTER: BEAT GERMS WITH MY SUBMARINE! | BELOW: A FREE, ATMOSPHERIC, HORROR-VIBED SCI-FI WITH PROMINENT PEOPLE (AND YOU). |
| WEZMO ACADEMY: BEST FREE VR EXPERIENCE FOR LOVERS OF THE TITANIC. | CINOSTREX VR: FREE VR EXPERIENCE OF DINOSAUR ERAS. | VRMONO: A FREE EXPERIENCE OF IMMERSIVE VIDEOS. |
| DISCOVERY VR: TRANSPORT YOURSELF TO PLACES CONTEMPORARY TO ARTIFACTS YOU SEEN IT MANY CHECKED. | JAUNT VR: PRESENCE DESCRIBE VR. | YOUNGEST VR: EXPERIENCE VR VIDEOS ABOUT ART, TRAVEL, EDUCATION, BUSINESS, WILD, ESPATS AND MORE. |

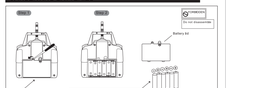
Disclaimer: This list of apps is only meant to highlight some of the selections available in the Google Play or App Store. Sakar International is not the developer of any of these apps and does not vouch for the content or functionality of these apps. Some of these apps may have in store purchases. For any app issues please contact the app development team directly.



## 5. A QUICK LOOK AT THE CONTROLLER




## 6. INSERTING BATTERIES






## 7. CHARGING

Step One:Connect USB Charger to Charge the Quad Battery

Charging Instructions

1. When charging, be sure sure that your aircraft is powered off.
2. Disconnect the power cable (located underneath your aircraft).
3. Plug the power cable into one end of the included charging cable.
4. Plug the other end of the charging cable into a computer's USB port or suitable AC adapter.
5. If the battery is warm after extended use of your aircraft, wait until it cools before charging.

⚠ CAUTION ⚠ WARNING

For safety, battery charging must be done under adult supervision at all times.

| Red light on: | Red light off: | |
|---|---|---|
| Charge Complete | Charging | |

| Input | Charging Current | Full Voltage |
|---|---|---|
| 5 V | 500MAh | 4.25 ± 0.5V |

## 8. BATTERY AND CHARGER SPECIFICATIONS

Battery Charger and Charger Specifications

| Battery type: | Battery Specification: | Usage Duration: | Charge Time: |
|---|---|---|---|
| Li-ion/Polymer battery | 3.7V, 450mAh | Aircraft flight time: 5-7 minutes | About: 55-70 minutes |



## 14. USING YOUR VR HEADSET: SAFETY PRECAUTIONS

When using your headset, basic health and safety precautions should always be followed, including the following.

1. READ ALL INSTRUCTIONS BEFORE USING YOUR VIRTUAL REALITY HEADSET.

2. Your headset is not to be used by children under the age of 14 years old, for children older than 14 or the infirm your headset should only be used with adult supervision.

3. If you suffer from irregular vision, or are prone to headaches or earaches, consult a doctor before using your headset.

4. If you have any history with epilepsy, seizures or have experienced symptoms linked to an epileptic condition, consult your doctor before using your headset. Please note that approximately 1 in 4000 people may experience seizures triggered by flashing lights or patterns seen while watching video content even if they have had no prior history of epilepsy or seizures.

5. Avoid using your headset if you are under the influence of drugs or alcohol, suffering from illness, or under intense emotional distress.

6. If you feel the earbuds suffer from motion sickness take extra precaution when using your headset, and take frequent breaks.

⚠ CAUTION **DO NOT USE FOR EXTENDED PERIODS OF TIME**
Do not use your headset for extended periods of time. Doing so may cause a short period of time to include nausea or motion sickness, so that you can get accustomed to virtual reality mediums. As you become more experienced, you can use your headset for longer periods of time. It is recommended to take frequent breaks when using your headset. If you feel any of the following symptoms linked after using their headset for thirty minutes, for another, take an immediate break if you are feeling any discomfort or strain.

⚠ CAUTION **DISCONTINUE USE IF YOU EXPERIENCE DISCOMFORT**
If you experience nausea, dizziness, eye strain, disorientation, or any general illness or discomfort while using your headset, stop using it immediately. Do not drive a car, use heavy machinery or participate in any activities that require balance or dexterity until you have recovered. Contact a doctor if these symptoms persist.

⚠ CAUTION **ONLY USE IN A SAFE, STABLE ENVIRONMENT**
Only use your virtual reality headset in an environment where you are secure. Never use your headset while walking, driving, or in any other situation that could cause you to injure yourself or to put others at risk. Be aware of your surroundings. Do not use your headset in a crowd or in a busy place. If you are not physically focused on your surroundings.



## 5. Menu Screen Options

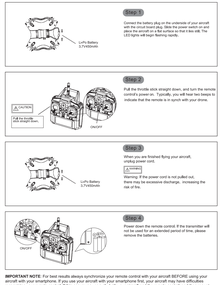
Tap Play to access the control interface.

Tap Help for further instruction on using the app.

Tap Gallery to access captured videos.

Tap Settings to open the App's settings menu.

## 9. SYNCHRONIZING THE AIRCRAFT WITH THE REMOTE




Step 1
Connect the battery plug on the underside of your aircraft to the battery port. Place the battery into the aircraft and place the aircraft on a flat surface so that it lies still. The LED lights will begin flashing rapidly.

Step 2
Pull the throttle stick straight down, and turn the remote control's power on. Typically, you will hear two beeps to indicate that the remote is in synch with your drone.

Step 3
When you are finished flying your aircraft, power the remote (on).

Warning: If the power cord is not pulled out, it may cause the excessive discharge, increasing the risk of fire.

Step 4
Please power the remote control. If the transmitter will not be used for an extended period of time, please remove the batteries.

**IMPORTANT NOTE:** For best results always synchronize your remote control with your aircraft BEFORE using your device for the first time. Your aircraft and remote control should come pre-synced from the factory, but occasionally recognizing your remote control. If this occurs, power cycle both your aircraft and the remote control, and then repeat the synchronization steps listed above.



## 10. FLIGHT ADJUSTMENTS AND SETTINGS

Basic Flight Controls

If you have never used your aircraft before, and you are not an experienced pilot, read this instruction manual first before flying. Get familiar with all of the controls. If necessary, read through the instructions numerous times, and practice handling the remote control until you feel completely comfortable and ready.

1.Place the aircraft on a clear, open field with the rear of the aircraft pointed in your direction.
2.Practice using the throttle stick and the directional control stick (see below).
3.Practice using the remote control in a safe, open area. Practice familiarization with the manual motions required during flight and you will learn to react more rapidly to unexpected circumstances.

| | |
|---|---|
| Ascend & Descend | Push the throttle stick upwards and your aircraft will ascend. Pull the throttle stick downwards and the aircraft will descend. |
| Forward & Backward | Push the directional control stick upwards and the aircraft will fly downwards, causing it to move forwards. Pull the directional control stick downwards and the aircraft will fly upwards, causing it to move backwards. |
| Turn | Slide the throttle slide to the left to turn the aircraft left, and to the right to turn it. Slide the throttle slide to the right and the nose of the aircraft will turn to the right. |
| Slide Left & Slide Right | Slide the directional control stick to the left and the aircraft will slide to the left. Slide the directional control stick to the right and the aircraft will slide to the right. |

## HEADLESS MODE

Headless mode ensures that the aircraft will always follow controls from your perspective all the time, regardless of which way the aircraft is facing. Press the headless mode button on your remote to go into headless mode. Press it again to exit headless mode.



## 13. WIFIAPP USAGE

**1. Use the Included Mobile Phone Holder to Connect Your Phone to the Remote Control**

Press the button on the top of your phone holder to open the holder. Place your phone in the phone holder.

Slide out the phone holder's feet to find a more secure fit. Ensure that the sides of your phone are flush with the phone holder's sides.

Connect the phone holder to the remote control. Make sure the phone's screen is facing the remote's screen. Use the phone holder's slides to secure your phone in place.

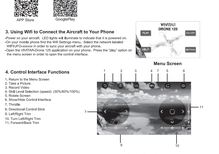
**2. Download the Vivitar Drone 125 app.**

Go to the App Store or Google Play and search for the Vivitar Drone 125 app. Follow the installation instructions to download the app.

**3. Using Wifi to Connect the Aircraft to Your Phone**

-Power on your aircraft. LED lights will illuminate to indicate that it is powered on.
-Go to your phone's Wifi settings. Select the Wifi network that matches your aircraft (WiFiFPV2xxxxxx) in order to sync your aircraft with your phone.
-Open the VIVITAR/Drone 125 application on your phone. Press the "play" option on the menu screen in order to open the control interface.

**4. Control Interface Functions**






## 12. USING THE ON BOARD VIDEO CAMERA

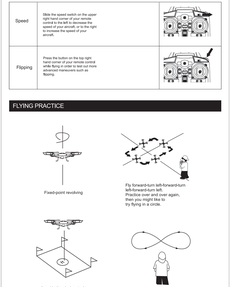
1. Attached to your aircraft is a camera which allows you to record videos and take photos. To make use of the camera, you will have to synch your aircraft to your phone using the app. Once you have successfully completed getting your aircraft synchronized with your smart phone, see the app's instructions for more details on how to record videos taken by your aircraft and stored on your phone.

NOTES:
-Before using, please adjust the camera so that the lens is centered in the hexagon hole in the front of the aircraft.
-Photos and videos taken by your aircraft's on board video camera are stored in your phone's internal memory.

WARNING:
-Ensure that your aircraft's battery is fully charged before you start recording video content. If your aircraft's battery runs out of power while you are recording video, the entire video file that was being recorded will be lost. To ensure that you don't run into this issue, make sure that your aircraft's battery is fully charged before you start recording. If your aircraft's battery runs out of power, try making shorter but more numerous recordings instead of long individual recordings.

| | |
|---|---|
| Speed | Slide the speed switch on the sticker on the bottom of your aircraft to the left to decrease the speed of your aircraft or to the right to increase the speed of your aircraft. |
| Flipping | Press the button on the top right side corner of your remote control to perform a flip. Ensure that the advanced maneuvers such as flipping |

## FLYING PRACTICE






IMPROVING AT A FLIP

After you become familiar and comfortable with the practice activities from the previous section, you can start practicing flying in a circle. Start by drawing a circle on the ground, practice flying within the circle to increase your accuracy.

You can reduce the size of the circle as you become more skilled and need a greater challenge.

ADJUSTING THE TRIM

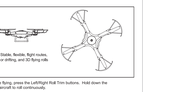
Slowly raise the throttle stick and just as the aircraft lifts off the ground, use the trim to make minor adjustments in the direction the aircraft is tilted.

1.Rotation and Trim
Just before the aircraft lifts off, the nose may point in a direction.
Adjust the trim accordingly to compensate so that the aircraft straightens out.

2.Adjustment of Elevation and Trim
Just before the aircraft lifts off, the nose may point in a direction.
When leaning forward, adjust the trim down.
When leaning backwards, adjust the trim up.

3.Adjustment of Left and Right Sliding and Trim
Just before the aircraft lifts off, the body may lean left or right.
When leaning left, adjust the trim to left side.
When leaning left, adjust the trim to right side.

## 3D FLIP FLYING




Ensure that the speed is set to 100%. While flying, press the Left/Right Roll Trim buttons. Hold down the forward/backwards/left/right buttons for the aircraft to roll continuously.

## 11. RULE OUT TROUBLE DURING FLIGHT

| Situation | Cause | Suggested Solution |
|---|---|---|
| 1. The receiver light keeps flashing | Unable to sync to transmitter. | Repeat the power up initializing process. |
| 2. The aircraft is not responsive | 1.Power on the transmitter and receiver 2.Check transmitter and receiver inflash 3.Check control in radio terrains. | 1.Turn on transmitter and ensure 2.Ensure transmitter and receiver 3.Use a dry compact battery. 4.Reseal the battery and ensure good contact between battery contacts. |
| 3. Motor does not respond to throttle stick, receiver LED flashes. | Battery needs to be charged or replaced. | 1.Ab charge the battery or replace with a fully charged battery. |
| 4. Main rotor spins but is unable to takeoff. | 1.Underpowered motor blades 2.Incorrect motor blades installed 3.Unbalanced/damaged parts. | 1.Replace main blades 2.Replace motor with fully charged battery 3.Return to the gyroscope/repair |
| 5. Strong vibration of aircraft | 1.Deformed main blades | 1.Replace main blades |
| Tail roll off on after take off. | 1.Damaged tail rotors. 2.Damaged tail drive motor 3.Unbalanced/damaged tail | 1.Replace tail rotors 2.Replace the main motor 3.Return to the gyroscope/repair |
| Aircraft spontaneously turned after trim adjustment when hovering. | 1.Gyroscope requires our calibrated | 1.Reboot |