VIVITAR EYE IN THE SKY

LIVE STREAMING

WIFI QUADCOPTER DRONE & VR HEADSET



VIVITAR

DRC-125
USER'S MANUAL

2227 Stout International Island Drive, #A
Foster City, CA 94404 Email: info@vivitar.com
Phone: 650-638-1888 Website: www.vivitar.com
Copyright © 2016 VIVITAR. All rights reserved.
VIVITAR is a registered trademark of Vivitar, Inc.
Vivitar ® Manufactured Information for Future Reference.

1. FOREWORD

Thank you for purchasing the Vivitar WiFi Quadcopter Drone and VR Headset, item DRC-125. The 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 / FAIL - SAFE FEATURES

⚠ WARNING	Misleading caused by failure to follow these instructions may result in damage or injury.
⚠ CAUTION	Misleading caused by failure to follow these instructions may result in danger.
⚠	Do not attempt under any circumstance.

IMPORTANT NOTICE ABOUT YOUR DRONE

Your drone is not a toy. It is a miniature, 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 cover failures due to defects in material or workmanship and damages or malfunctions from other than normal use, including but limited to, repairs by unauthorized parties, tampering, modification or misuse.

To Obtain Warranty Service and Troubleshooting Information:

Call 1-800-592-8484 or the U.S. or EUROPE1-800 in the UK 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 sent with the product. Please include a return address, daytime phone number, properly packaged and sent any otherwise products along with a dated copy of proof of purchase, a written description of the problem and your return shipping address. Products returned to us for warranty service must not include any other items or accessories with the defective product. Any products received by the authorized service center that are not covered by warranty will be returned unrepaired.

NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL EXTEND BEYOND THOSE THINGS EXPRESSLY DESCRIBED ABOVE SHALL APPLY. APPLE DISTRIBUTOR FURTHER DISCLAIMS ANY AND ALL IMPLIED WARRANTIES AND ANY AND ALL LIABILITY ARISING FROM INCIDENTAL AND CONSEQUENTIAL DAMAGES ON ANY PERSON. FOR ANY BREACH OF WARRANTY, ANY SUCH IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED IN DURATION TO THE ORIGINAL PURCHASE PRICE. AT DISTRIBUTOR'S SOLE DISCRETION, AND THE EXCLUSIVE REMEDIES OF THE CONSUMER. IN NO EVENT WILL ANY DISTRIBUTOR, ITS MANUFACTURERS, OR ITS SUPPLIERS BE LIABLE FOR ANY SPECIAL, INCIDENTAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL DAMAGES (SUCH AS, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFITS, BUSINESS, SAVINGS, DATA OR REVENUE) CAUSED BY THE USE, MISUSE OR INABILITY TO USE THE PRODUCT, REGARDLESS OF THE LEGAL THEORY UPON WHICH THE CLAIM IS BASED, EVEN IF ADVISED OF THE FORGOING. CONSUMER'S RECOVERY AGAINST DISTRIBUTOR SHALL NOT EXCEED THE PURCHASE PRICE PAID BY CONSUMER FOR THE PRODUCT. THIS WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL CONSUMER WHO PURCHASED THE PRODUCT AND IS NOT TRANSFERABLE.

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 to you. This warranty gives you specific legal rights, and you may have other rights that may have from country to country, state to state or province to province. This warranty is governed by the laws in force in the country where you obtained the product. This product is manufactured, distributed and sold by SAKAR International Inc. All trademarks are the property of the respective owners. eXo Inc 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.

FCC Radio Frequency Exposure Statement

The device has been evaluated to meet general RF exposure requirements. The device can be used in fixed/mobile exposure conditions. The min separation distance is 20cm.

This device is acting as slave and operating in the 2.4 GHz (2402 ~2482 MHz) band.

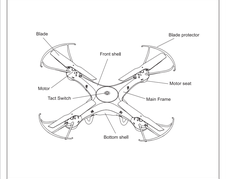
3. PACKAGE CONTENTS



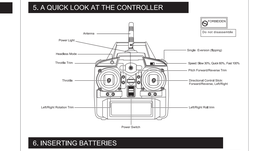
ACCESSORIES FOR VR HEADSET



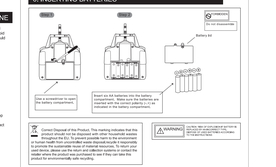
4. A QUICK LOOK AT YOUR AIRCRAFT



5. A QUICK LOOK AT THE CONTROLLER



6. INSERTING BATTERIES



Correct Disposal of this Product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems available or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.

⚠ WARNING Use fresh, new or rechargeable batteries only. Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc) or rechargeable batteries.

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 APP FOR ANDROID & IOS PLAY VIDEOS AND PLAY VR CHESS AND MORE.	CZINAR POINT VR FREE APP FOR IOS ENHANCED VIDEOS STORED WITH SOUND EFFECTS	
SOCCER VR PLAY SOCCER VR IN YOUR...	GERM BUSTER KILL GERMS WITH VR SUBMARINE	BELOV VR ADVENTURE, ACTION, ROOM AND HIDE OUT WITH FASCINATING PEOPLE (3D) YOU
WIZARD ACADEMY BEST FREE HOLLYWOOD VR GAME	OMGTECH VR VIRTUAL EXPERIENCE OF DIFFERENT WORLDS	
DISCOVERY VR TRANSPORT YOURSELF TO PLACES CONTRIBUTED THE MOST!!! AFTER IF YOU WON'T KNOW YOBTO	JAUNT VR EXPERIENCE VR WORLD ABOUT ART, TRAVEL, DISCOVERY, BUSINESS, WILDLIFE AND MORE	YOUVISIT VR EXPERIENCE VR WORLD ABOUT ART, TRAVEL, DISCOVERY, BUSINESS, WILDLIFE 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 performance of these apps. Many of these apps may have in-store purchases. For any app issues please contact the app development team directly.

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.

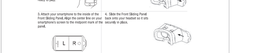


1. Set your smartphone's apps so the VR cross content check that it's displaying correctly on the first 2 ready to play.

2. On your headset, pull 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 center line on your smartphone screen to the indicator mark on the panel.

4. Slide the Front Sliding Panel back onto your headset so it sits securely in place.



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 start watching content. Follow the instructions below to 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 is 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 video, you can lift up your head left and right to enhance your viewing angles by utilizing the motion sensor of your phone :



7. CHARGING

Only Plug a Vivitar USB adapter for charge the Aircraft's Battery

Charging Instructions

1. When charging, first make 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 a 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.

LED Indicator Definitions		Charger Specifications		
Red light on	Red light off	Input	Charging Current	Full Voltage
Charge Complete	Charging	5V	500MAh	4.25 ± 0.03V

8. BATTERY AND CHARGER SPECIFICATIONS

Battery Usage and Charger Specification Reference			
Battery type	Battery Specification	Usage Duration	Charge Time
Li-polymer battery	3.7V, 450mAh	Aircraft flight time: 5~7 minutes	About 50-70 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 entertainment 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 frequently suffer from motion sickness take extra precaution when using your headset, and take frequent breaks.

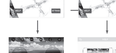
⚠ CAUTION **DO NOT USE FOR EXTENDED PERIODS OF TIME**
Do not use your headset for more than 30 minutes at a time, and then take a short period of time (a minute maximum) so that you do not get accustomed to the virtual reality experience. As you become more experienced, you can use your headset for longer periods of time. It is recommended to take frequent breaks to avoid eye strain, dry eyes, fatigue, and nausea. If you do feel these symptoms you should stop using your headset for thirty minutes. In addition, take an immediate break if you are feeling any discomfort or strain.

⚠ CAUTION **DISCONTINUE USE IF YOU EXPERIENCE DISCOMFORT**
If you experience seizures, dizziness, eye strain, disorientation, or any symptoms that you deem uncomfortable 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 when you are walking, driving a car, operating machinery, riding a bicycle, or doing anything else in an environment where it may be moving unsafe or objects which can put you in danger! 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.



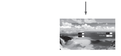


Tap Settings to open the App's settings menu









9. SYNCHRONIZING THE AIRCRAFT WITH THE REMOTE

Step 1

Connect the battery plug on the underside of your aircraft to the battery port on the aircraft. Then connect 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, simply power it off.

⚠ CAUTION

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



Step 4

Power down 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 VR headset. Failure to do so may result in the aircraft not responding to the VR headset's motion sensor when 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

Before Each Flight Session

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.Start with basic maneuvers, and work your way up to more challenging maneuvers while the natural motions required during flight and you will learn to react more rapidly to unexpected circumstances.



Ascend & Descend	Push the throttle stick upwards and the 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 forward. Pull the directional control stick downwards and the aircraft will fly upwards, causing it to move backwards.	
Turn	Slide the throttle stick to the left to rotate the aircraft to the left. To do so, slide the throttle stick to the right and the nose of the aircraft will turn to the left.	
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 **at** the time, regardless of which way the aircraft is flying. Press the headless mode button on your remote to go into headless mode. Press it again to exit headless mode.

12. USING THE ON BOARD VIDEO CAMERA

1. Attached to your aircraft is a camera which allows you to take photos and videos. To do so, you must first turn on the camera, you will have to turn your aircraft to your desired location. Then, you can take photos or videos by getting your aircraft synched with your smart phone, see the section below for instructions on how to do so. Photos and videos taken by your aircraft are stored on your phone.

NOTES:
-Before using, please adjust the camera so that the lens faces forward parallel to the surface of the aircraft.
-Photos and videos taken by your aircraft's on board video camera are stored in your phone's internal memory.



WARNING:
-Make sure 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 will was being recorded will be lost. To ensure that you don't lose any video content, it is recommended that you replace your aircraft's battery runs out of power, by making shorter but more numerous recordings instead of long individual recordings.

13. WIFIAPP USAGE

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

Place the holder on the side of your phone that has the camera. Put the rear of your phone in the phone holder.

Slide the phone holder so that it rests securely in the middle of your phone's body. Make sure that the camera is clear.

Connect the phone holder to the remote control. Make sure that the phone holder's rear legs are connected to the rear of your remote control, and the front legs are connected to the front of the remote control.

2. Download the Vivitar Drone 125 app.

Go to the App Store or Google Play store 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 your aircraft is using (WIFI-xxxxxx).
-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

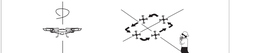


1. Return to the Menu Screen
2. Take Photos
3. Record Video
4. 720P Level Selection (speed) (30%/60%/100%)
5. Gallery
6. Drone/Yaw Control Interface
7. Throttle
8. Directional Control Stick
9. Left/Right Trim
10. Pitch Forward/Reverse Trim
11. Forward/Back Trim

FLYING PRACTICE







IMPROVING AS A PILOT

After you become familiar and comfortable with the practice activities from the previous section, you can start practicing more challenging tasks, such as drawing a circle on the ground. practice flying within the circle, and increasing its size.

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, you will have the time to make minor adjustments in the direction the aircraft is tilted.

1.Rotation and Trim
Just before the aircraft lifts off, the nose may rotate to the left or right.
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 tilt forward or backward.
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/backward/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 voltage.3.Limit number of battery terminals.	1.Turn on transmitter and ensure that it is connected to receiver.2.Use fully charged batteries.3.Reseat the battery and ensure good and tight battery terminal contacts.
3	Motor does not respond to throttle stick, receiver LED flashes.	Battery needs to be charged or replaced.	Fully charge the battery or replace with a fully charged battery.
4	Twin rotor spins but is unable to takeoff.	1.Obstructed main blades.2.Damaged or bent main blades.3.Defective motor/assembly.	1.Replace main blades.2.Replace main blades.3.Replace motor/assembly.
5	Strong vibration of aircraft	1.Deformed main blades	1.Replace main blades
6	Tail will not trim after fast adjustment.	1.Damaged tail rotors.2.Damaged tail motor mount.3.Deformed motor/shaft/unit	1.Replace main blades.2.Replace the main motor.3.Return to the ground/reboot
7	Aircraft operates forward after trim adjustment when hovering.	1.Gyroscope misparm not calibrated	1.Reboot