

### FCC Part 15 C Notice

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

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 experienced radio/TV technician for help.

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 RF exposure statements

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.

### IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.



CLASS 10

Requires Speed Class 10 or higher microSD or microSDHC card (not included)  
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Conforms to safety requirements of FCC.

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Made in China  
C002-USA-V 1.0

# VA-1000

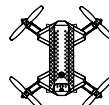
## HD STREAMING VIDEO DRONE



### INSTRUCTION BOOKLET

**WARNING:** Never leave product charging unattended for extended periods of time. Always disconnect the battery from charger immediately after the battery is fully charged. Please refer to enclosed safety instructions.

### PACKAGE CONTAINS:



VA-1000



2.4G Wireless Controller



Spare Parts



USB Charger



Phone Holder



Battery



Instruction Manual

Colors and styles may vary slightly .

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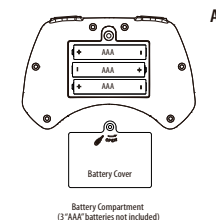
Thank you for purchasing the VA-1000 HD Streaming Video Drone. Please read this instruction booklet as it contains valuable information on how to properly fly and care your VA-1000.

## FEATURES

- Compact fold-in design allows for easy portability
- New obstacle avoidance training feature will cause the drone to automatically circumvent walls and other obstructions so new pilots can get the hang of flying
- Air pressure sensor locks flight altitude for stable video footage
- Takes video and still shots with on board HD Camera
- 6 axis gyro for extremely stable flight and maneuverability

## REMOTE CONTROL BATTERY INSTALLATION

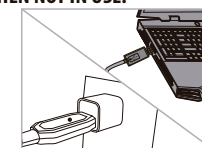
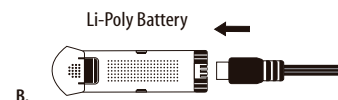
1. Unscrew and remove the battery cover from the back of the controller.
2. Install 3 fresh "AAA" alkaline batteries into the controller as shown in diagram A. Replace the battery cover and secure it.
3. Turn over the controller and press the power button.  
If the power indicator turns on you have installed your batteries properly.



## CHARGING THE VA-1000 LI-POLY BATTERY

1. Connect the USB charger to the battery charging socket (see diagram B).
2. Connect the USB end of the cable to your computer's USB port or a USB wall charger (see diagram C).
3. The indicator light on the USB charger will turn to solid red to indicate that the battery is charging. The red LED indicator will turn off when charging is completed.
4. Average charging time is approximately 50-60 minutes (via 5.0V  $\pm$  2A USB wall charger). A fully charged VA-1000 can fly for 5-6 minutes depending on environment and user input.

**IMPORTANT: ALWAYS REMEMBER TO UNPLUG YOUR CHARGING CORD WHEN NOT IN USE!**



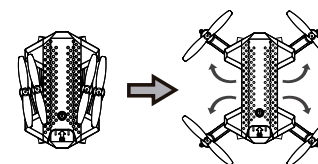
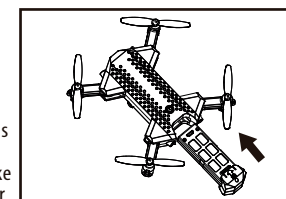
## INSTALL THE VA-1000 BATTERY

Push the fully charged battery into the battery compartment then lock the end with the battery locks. (see diagram D)

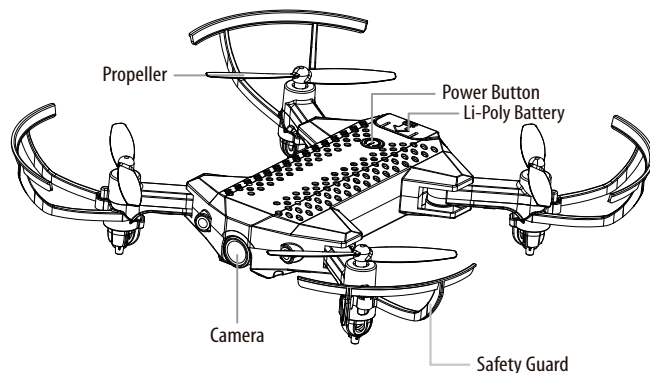
*The battery only fits one way to the battery compartment, do not force it.*

## HOW TO EXPAND AND FOLD YOUR VA-1000

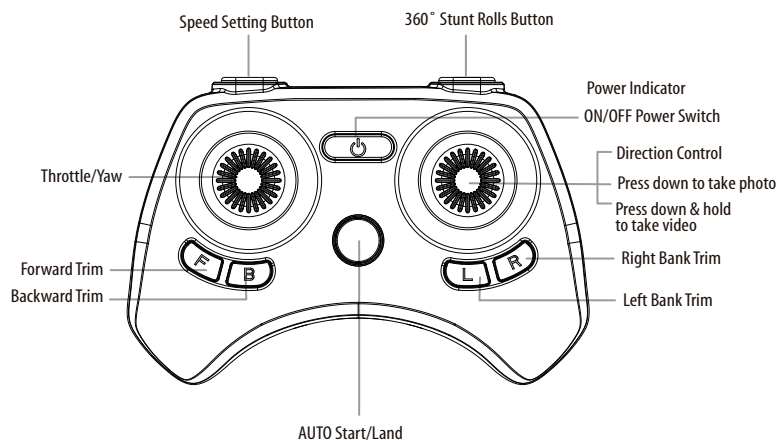
Before flying your VA-1000, you need to expand the foldable arms out. Turn your VA-1000 over, bottom side facing you, pull and expand the 4 arms as shown in the diagram below carefully. Make sure the arms are fully expanded to the position. After flying your VA-1000, it is recommended to fold all 4 arms back in. When expanding or folding your VA-1000, make sure to be gentle. (see diagram E)



## VA-1000 DIAGRAM



## CONTROLLER DIAGRAM



## WARNING

**DO NOT FLY YOUR VA-1000 IN FOUL WEATHER!**



## FLIGHT PREPARATION

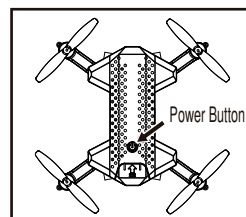
- Verify that there are 3 "AAA" batteries inside the remote control unit and the VA-1000 battery has been fully charged.
- Make sure to be in a large open space preferably a field or a park with an open radius of at least 200 feet.
- Make sure to start your drone on a clean flat level surface before take-off.
- **IMPORTANT! Until you have experience in flying your VA-1000, it is not advised to use in any rate of wind. Pick a day with zero wind or extremely light wind condition when learning how to fly.**

## SYNCING YOUR VA-1000

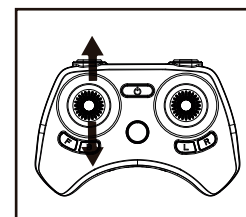
**Important!** When syncing your VA-1000 with the controller always make sure that the drone is on a flat level surface and that your digital trim settings are in the center position.

1. Before starting, make sure that the power on your controller is off and the battery is removed from the VA-1000. Make sure that there are no other 2.4G devices in the area.
2. Insert the battery into the VA-1000 and set it down on a flat level surface. Press down the power button and hold for a few seconds (see diagram F). The LED lights on the drone should begin to flash.
3. Quickly turn ON the remote and you will notice that the top red LED light on the face of the controller.
4. Push the throttle stick all the way up until it stops and then pull it back all the way down to the bottom (see diagram below). When pushing the stick up or pulling the stick down you should hear a high-pitched beep both ways. The indicating lights on the drone and controller will stop flashing and stay solid on. You have successfully synced your VA-1000 and are ready to fly. If this doesn't happen, repeat steps 1-4 again.

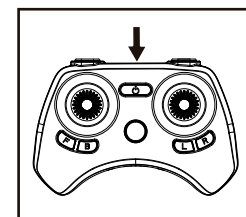
- **TIP 1: Try not to leave too much time between putting your battery into the drone and turning on the controller or your syncing window will time-out.**
- **TIP 2: Syncing your drone indoors or in the shade will make it easier to see the LED light indicators on both the controller and the drone.**



F



Move the control stick all the way up and all the way down, you should hear two beeps.



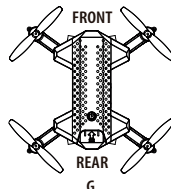
The flashing red LED light will become solid when you are synced.

## NOW YOU ARE READY TO FLY!

If you have successfully synced your VA-1000 to your controller as explained on page 4 you are now ready to fly. Before beginning to fly your drone you should familiarize yourself with how to start and stop the rotors, how to use your auto land feature and how the controls work so please carefully read and familiarize yourself with various control features explained in the next. Once again as a beginner pilot you should learn how to control your drone in a large open field or park on a day with zero or very light wind. Do not try to fly your VA-1000 too high until you become a more experience pilot.

### RECOGNIZING THE FRONT & REAR OF THE VA-1000

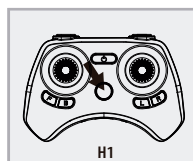
Even though the VA-1000 has four rotors there is still a front or "forward" facing direction and "rear" or backwards facing direction. The front and forward facing direction of the VA-1000 is the side with a camera (see diagram G). The rear and backward facing direction of the drone is the side with a red light (see diagram G).



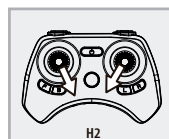
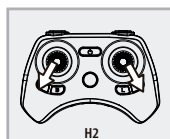
### AUTOMATICALLY TAKE OFF / LAND

Make sure you have properly synced The VA-1000.

- simply press the Auto Start/Land button, your VA-1000 will automatically take off.
- To stop or land the VA-1000 just Press the Auto Start/Land button again and the VA-1000 will descend and land automatically (see diagram H1).



**Tips:** You also can move the two control sticks simultaneously down inside or outside corners, hold them till the blades start spinning. Release the control sticks and push the throttle stick slowly to take off manually (see diagram H2).



### SPEED SELECT BUTTON

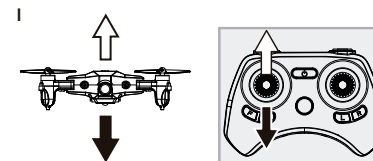
The VA-1000 has 4 speed settings; T (Training), 1 (SLOW), 2 (MEDIUM) and 3 (HIGH). The Default setting when you first turn on your VA-1000 is the 1 (SLOW) speed mode. To increase the speed simply trigger the speed setting button (see remote diagram on pg 3) you will hear beeping sounds of the controller will show you what speed setting you are on. Speed settings can be set before flight or during the flight.

### FLIGHT CONTROL

Below is a list of basic flight functions for your long-range remote to control the VA-1000. While learning to fly your VA-1000 it is best to start in a large space with the drone facing away from you until you get used to the basic controls. As you master flying your VA-1000 you can move to more advanced maneuvering techniques. Practice makes perfect!

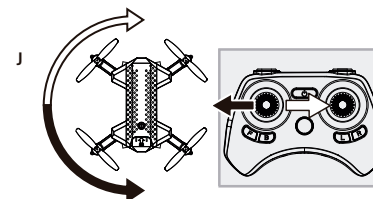
Move the left Throttle stick up to increase the propeller speed and the VA-1000 will accelerate and ascend.

Move the left Throttle stick down to decrease the propeller speed and the VA-1000 will decelerate and descend (see diagram I).



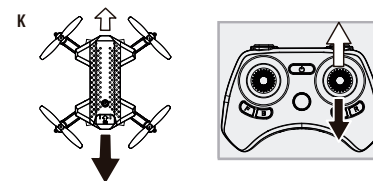
While in the air, move the left Throttle stick left and the VA-1000 will rotate left.

Move the left Throttle stick right and the VA-1000 will rotate right (see diagram J).



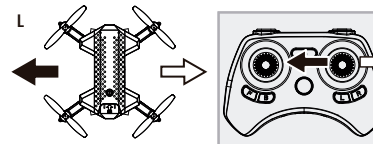
While in the air, move the right Direction Stick up and the VA-1000 will move forward.

Move the right Direction Control down and the VA-1000 will move backward (see diagram K).



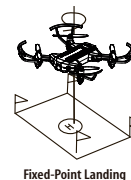
While in the air, move the right Direction Control left and the VA-1000 will bank to the left.

Move the right Direction Control right and the VA-1000 will bank to the right (see diagram L).

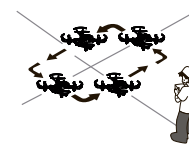


### FLIGHT PRACTICE

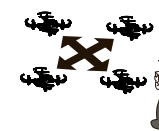
To master flying your aircraft try practicing the exercises shown below, start with simple vertical takeoffs, landings, and left/right turning and rotating. Once those are mastered move on to square and cross maneuvers. Good luck and have fun!



Fixed-Point Landing



Square Pattern Maneuver



Cross Pattern Maneuver

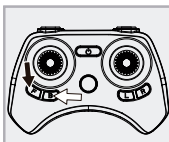
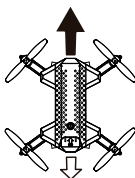
## ADJUSTING THE TRIM

**NOTE:** The VA-1000 is already properly trimmed and calibrated right out of the box and should not require any trim adjustments before flying. Some more experienced pilots may want to adjust trim settings for their style of flying. After several crashes you may need to adjust trim settings for the VA-1000 to be more balanced.

### Forward/Backward Trim

- If your VA-1000 is moving forwards or backwards automatically, you may need to adjust the FORWARD/BACKWARD TRIM buttons.
- If your VA-1000 drifts forward, push and release the BACKWARD TRIM button repeatedly until the moving stops and proper flight is maintained.
- If your VA-1000 drifts backwards, push and release the FORWARD TRIM button in the same manner until the problem is resolved (see diagram M).
- From time to time you may have to adjust the FORWARD or BACKWARD TRIM buttons to ensure the VA-1000 will hover in mid-air and respond accurately to your commands.

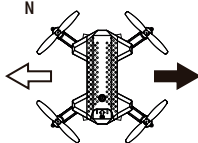
M



### Banking Left/Right Trim

- If your VA-1000 is not steadily hovering and is banking to the left or right automatically, you may need to adjust the LEFT BANK or RIGHT BANK Trim buttons.
- If your VA-1000 banks to the left, push and release the RIGHT BANK TRIM button repeatedly until the banking stops and proper flight is maintained.
- If your VA-1000 banks to the right, push and release the LEFT BANK TRIM button in the same manner until the problem is resolved (see diagram N).
- From time to time you may have to adjust the LEFT and RIGHT BANK TRIM to ensure the VA-1000 will steadily hover in mid-air and respond accurately to your commands.

N



**NOTE:** The use of the Trim buttons utilizes sounds. A single long Beep indicates the product is center trimmed. When there's no sound when press the trim means the product is trimmed to the maximum on a particular side.

## CALIBRATING THE VA-1000

**NOTE:** Your VA-1000 comes per-calibrated out of the box so you are ready to fly.

After several crashes and shocks to your gyro sensors, you may notice that your drone is drifting and can not hold its center position as well as it used to.

This most likely means that you need to recalibrate your VA-1000. Please follow the simple instructions below.

1. Place the VA-1000 on a flat level surface
2. Make sure the VA-1000 is on and that the controller is synced (refer to syncing pg 4). Do not start the blades. Instead move both the throttles and control stick down and to the right corner (see diagram R). You will see the lights on the drone rapidly flash and stop. Once the lights stop flashing you have completed your calibration and are ready to fly!

**TROUBLE SHOOTING:** If you do not see the lights flash, first remove the battery from the drone then turn off your controller and start again. Always make sure to put your battery in first, then turn on your controller. Push the left throttle stick up all the way and then pull back down again. When you hear the beep the VA-1000 is synced to the controller and you are ready to calibrate.

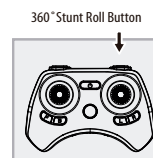


R

## HOW TO PERFORM 360° STUNT ROLLS

Performing 360° stunt rolls with the VA-1000 is as easy as 1-2-3:

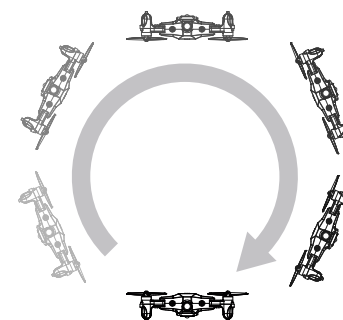
1. Hover the VA-1000 in still position making sure that you have at least 5 feet of clearance above and below the quadcopter. Set the speed settings to mode 2 or 3, the VA-1000 can not do the stunt in T (Training) mode and speed 1 (SLOW).
2. Press the 360 stunt button down and you will enter the stunt roll mode which is indicated by rapid beeping sounds (see diagram S).
3. Determine which direction you want it to flip and quickly push the right control stick in the direction you want to flip your VA-1000 (see diagram T).



S



T



**NOTE:** To exit the stunt roll mode without flip, you can press the button again. The beeping sound will stop.