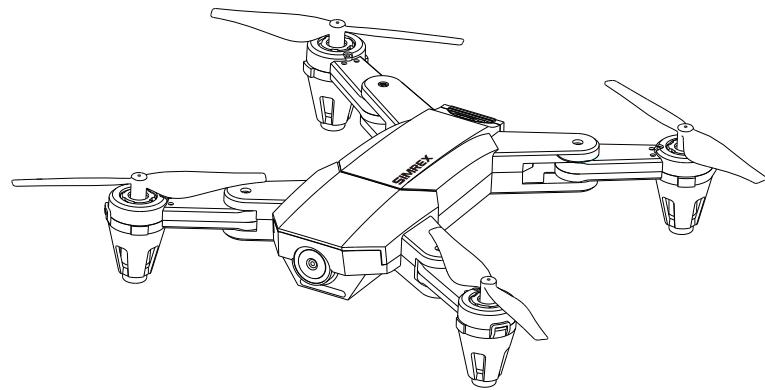


# X500

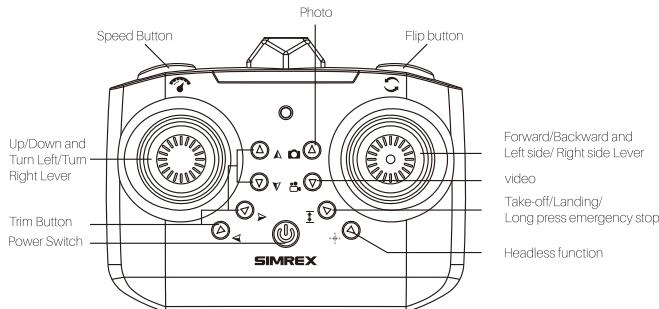
## USER MANUAL



For any assistance, please contact [simrexservice@outlook.com](mailto:simrexservice@outlook.com)

**14+**  
age

## 1.0 CONTROLLER COMPONENTS

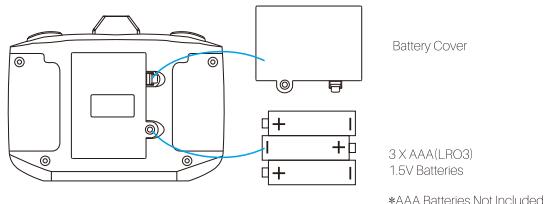


If you are using app to control the flight, please turn off the controller.

## 2.0 SETTING UP THE CONTROLLER/ DRONE

Installing the controller batteries

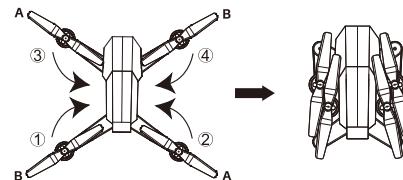
1. Unscrew the battery cover, and insert three AAA batteries, making sure you insert them following the correct polarity as shown.
2. Close the battery cover.

**Notice:**

1. Always have an adult to install the batteries
2. Always use Alkaline Batteries
3. Never mix old and new batteries

## 3.0 FOLDING THE ARMS

Fold arms as the order of number by the picture show.



## 4.0 CHARGING YOUR DRONE BATTERY

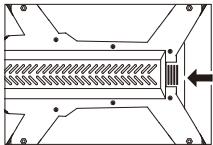
**BATTERY WARNING:**

If used improperly, the lithium polymer battery may expand, burst or catch fire, causing property damage and / or personal injury. You must fully comply with all instructions and safety warnings attached. Manufacturers, distributors and retailers are not responsible for failure to comply with these safety instructions and warnings.

**INSTRUCTIONS WHEN CHARGING**

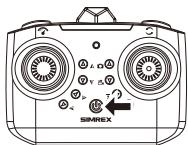
- 1.The battery must be removed from the product before charging.
- 2.If the battery has just been used, please cool it to room temperature before charging.
- 3.Charging can only be done by adults and only use the charger that comes with this product.
- 4.Be sure to charge the battery in a nonflammable, heat-resistant surface and nonflammable environment.
- 5.Connect the battery to the USB charging cable.
- 6.Connect the USB charging cable to the USB charging device. When charging, the red LED on the battery lights up and goes out when the battery is fully charged. It takes about 60-90 minutes to fully charge the battery. Do not continue to charge the battery after the red LED is off.
7. Lithium polymer batteries cannot be used forever. If your battery is damaged in the collision or cannot be charged properly, please replace it immediately. In order to extend your battery life, it is always best to keep a little charge before your battery to be charged.

## 5.0 SETTING UP THE SIGNAL CONNECTION



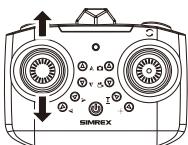
### Step 1

Insert the battery to the battery housing. (see first picture). Turn on the power switch (press 2 seconds) of the aircraft - the LED's on your aircraft will start to flash. Place the aircraft down on a flat surface, making sure the aircraft is facing away from you.



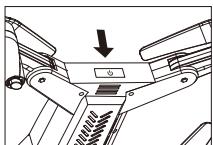
### Step 2

Press down the controller Power Switch to turn on the power, The controller will make one short BEEP sound and the red LED will flash.



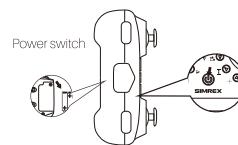
### Step 3

Push the left operating stick of the remote controller to the highest point and then pull to the lowest point; after the remote controller sends a "beep" sound, the frequency matching is finished and the drone LED light becomes steady.



### Step 4

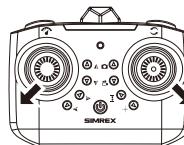
Always turn off the Power Switch while the aircraft after flight. Note: Long press to turn on/off.



### Step 5

Always turn the controller off after flight, and remove all batteries if non used for a long period of time.

## 6.0 AUTO TRIM FUNCTION



Push both control levers to the positions shown in the picture, and hold them for a few seconds. The lights on the aircraft will start flashing and beeping. After calibration is successful, the lights will stop flashing and stay on.

Situation	Cause	Way to deal
Aircraft does not respond	1. Drone enters low power mode. 2. The remote control's power indicator flashes.	1. Charge the drone. 2. Replace the remote control battery.
Aircraft reaction is not sensitive	1. The remote controller is low on battery power. 2. The remote control with the same frequency is emitting interference.	1. Replace the battery. 2. Go to a place without the same frequency emission interference.
Fly to one side when altitude hold/Altitude hold unstable/Move up and down	Horizontal incorrect.	Re-calibration horizontally. See (Auto trim function)
Headless mode biased forward	Multiple collisions cause bias.	Redefine the front direction, see (Headless mode)

## 7.0 AUTO-HOVER

Tip: Below operation only available for altitude hold version.

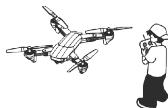
### START YOUR FIRST FLIGHT:

Push both levers to the position shown in the figure and hold for a few seconds. When the propeller on the plane starts to turn indicates that it has been turned on.

### AUTO-HOVER:

Press the "take-off /Land " button (1) once, the aircraft automatically goes up to air and stays at a height of around 1.5 meters. After that push the left stick to keep the drone at any height you wants.

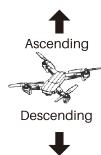
Press the "take-off /Land " button again, the drone will slowly goes down to the floor and finally the motors stop spinning.



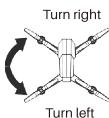
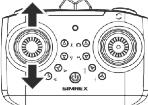
## 8.0 FLIGHT CONTROL

Please use the controller to practice simulated flights before you actually take the drone in the air for the first time.

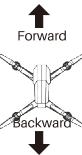
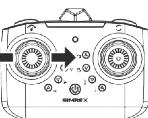
Place the Simrex X500 on a flat surface, make sure the camera is facing you back and keep the distance.



When the accelerator rocker is pushed upward, the aircraft will rise upward, and when it is pulled down, the aircraft will descend.

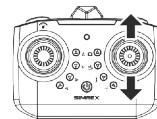


When the left-hand rocker is pushed to the left or right, the aircraft rotates in the corresponding direction.



When the right-hand accelerator rocker is pushed upward the aircraft will start to fly forward (please do this slowly at first till you learn the sensitivity).

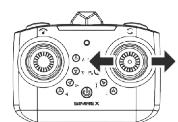
When you push Backwards on this rocker the aircraft will start to fly Backwards.



Left sideward fly

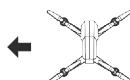


When the right-hand rocker is pushed left and right in any direction, then the aircraft will fly in the corresponding direction.

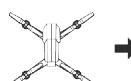


## 9.0 FLIGHT ADJUSTMENT SECTION

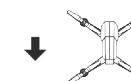
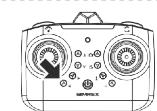
When you lift your aircraft into the air, don't use any other direction levers, your aircraft should simply hover in one spot without moving in any other direction. If it doesn't, you can follow the bellow instructions to TRIM your aircraft back to a perfect hover. TRIMMING is always needed before your first flight.



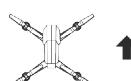
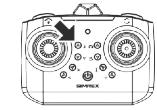
If your aircraft banks to the Left, keep pressing the Bank Right Trim Button to the Right till the Drone stops banking.



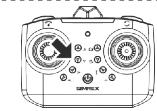
If your aircraft banks to the Right, keep pressing the Bank Left Trim Button to the Left till the Drone stops banking.



If your aircraft flies Backwards, keep pressing the Forward Trim Button Up till the Drone stops flying Backwards.

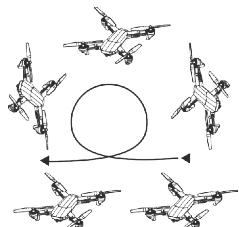


If your aircraft flies Forwards, keep pressing the Backwards Trim Button Down till the aircraft stops flying Forwards.



## 10.0 HOW TO DO A 360° ROLLING

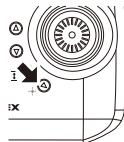
1. Make sure the aircraft is flying at least 3 meters above the floor, or 3 meters below the ceiling.
2. Press the Flip button on the controller. The controller will make a 'Beep' sound. When the right-hand rocker is pushed to the right and released, the aircraft will roll to the right. (When you want it to roll to the left, push the rocker to the left)
3. You may need to push upward the Up/Down Lever after the flip, if your battery is low on power in order to keep the aircraft altitude in the air after the flip.



## 11.0 FEATURES

**SPEED CONTROL:** Simrex-X500 has two speed control modes. When you first turn on your aircraft, it is set to low speed. When you press the SPEED BUTTON, you will hear TWO beeps and the high speed model will be switched. Pressing again will bring you back to low speed and you will hear ONE beep. High and low speed mode allows you to better control the flight speed.

## 12.0 HEADLESS MODE



### HEADLESS MODE:

Press and release the button in, indicating that headless mode is activated and the aircraft will switch on. After take-off, no matter in which direction, as long as you push the front rocker, the head of drone will fly in the take-off direction, not according to the camera's shooting direction.

## 13.0 REPLACING BLADES AND FIXING ISSUES

**BLADE REPLACEMENT:** The propeller of your aircraft is very strong, but sometimes it may be damaged in severe impact. There is a spare propeller box in the package. Always replace with the propeller in the corresponding position.

### DRONE NOT LIFTING OR NOT FLYING IN YOUR CHOSEN DIRECTION:

1. The most common reason is that the plane can't lift or fly correctly in the direction you choose because there are hairs and debris around your blades. This can be solved simply by removing the blade. Remove the debris and put the blade back in place.
2. The batteries in either the aircraft or Controller may need to be charged or to be replaced.
3. You may have knocked your Trim Button settings out of sync. Follow the instructions earlier in this booklet to reset them back to the factory settings, and then re-trim as desired.

## 14.0 SAFE FLIGHT ENVIRONMENT



Flying in an open and unobstructed environment

Flying within sight

Control flight height below 30 meters

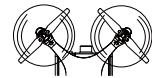
1. Make sure the surrounding area is free of all people, pets or other obstacles before you start to fly.
2. Do not use this aircraft in the strong wind environment.
3. KEEP 1.5 meters away between you and the aircraft at all times.



Please keep away from crowds, trees, wires, tall buildings, airports and signal towers when using. Radio transmission towers, high-voltage lines, substations and large pieces of metal with magnetic properties may interfere with remote control signals and compasses, threatening flight safety.



Weather conditions including raining, heavily fogging, snowing, lightning, and strong wind blowing (wind speed reaching 10 meters per second or more) are not permitted to fly.



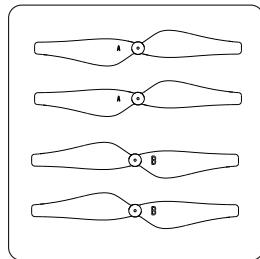
No Fly Zone

Do not touch the propeller in working rotation, otherwise it may be seriously damaged to personal and property.

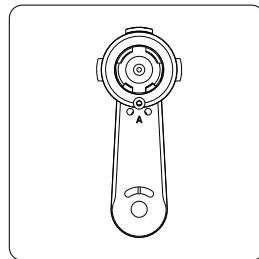


It's important to understand basic flight guidelines, for the safety of both you and those around you. Don't forget to read the Safety Guidelines before flight.

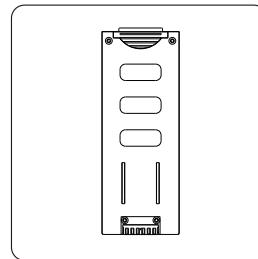
## PRODUCT CONFIGURATION



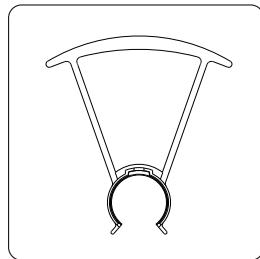
*Propeller* X500-101



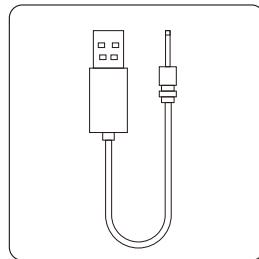
*Mechanical arm* X500-102



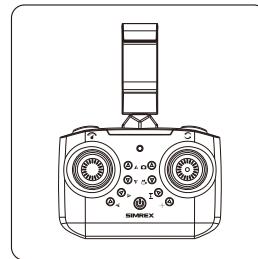
*Battery box* X500-105



*Protection bracket* X500-103



*USB data cable* X500-104



*Remote control* X500-106

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.

Any 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 an experienced radio/TV technician for help.