



14+  
AGES

# USER MANUAL



CX-39

Please read and follow all instructions and warnings in the manual prior to set up or use. Do not discard the manual.

Dear Customers:

We appreciate you for choosing our products. For the safety reasons, please read the manual carefully. Keep the manual for future references.

## 1. Warning:

(1) This is not a toy. It is a sophisticated hobby product equipped with electronic and mechanical parts. It must be operated with caution and common sense. The pilot should take all reasonable steps in order to protect: himself, other people, animals and property. We take no responsibility for any kind of accidents which are caused by incorrect operation, or incorrect installation of parts.

(2) The product is suitable for hobbyist who are over 14 years old.

(3) Please fly in areas where flying is permitted.

(4) We take no responsibility of operations, usage and etc. After the aircraft is sold, please contact your local dealer for parts and repair consultations.

## 2. Safety Precautions

It is a high-risk product and we recommend always operate it in open spaces away from people, vehicles and property. Always keep a safe distance in all directions around the device while it is in operation to avoid collisions or injury. The accidents (physical injuries or property damages) may be caused by: incorrect aircraft's parts installations; damaged aircraft's parts; defective electronic equipment; unfamiliar operations of the aircraft. The pilot should pay attention to the safety while operating the CX-39. The pilot is responsible for the accidents.

## 3. Flying CX-39

(1) Make sure all the batteries are fully charged: transmitter battery and aircraft battery.

(2) Plug aircraft's battery and then turn on the transmitter. After the flight, unplug the aircraft's battery and then turn off the transmitter. Wrong sequence of this procedure may cause the aircraft to fly away or be out of control causing injuries and damages.

(3) Make sure the battery and the propellers are installed and secured correctly. Incorrect installation of the battery and propellers may cause oscillations while flying and in some cases RC signal loss.

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## Maintenance

- (1) Use a clean and soft cloth to clean the product.
- (2) Keep away the aircraft from heat sources.
- (3) Avoid water exposure to this product.
- (4) Check the battery charging port and other parts on a regular basis. If damaged, please stop using damaged parts immediately until they are fixed.

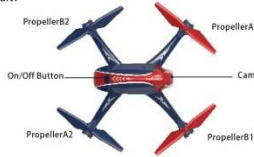
## Box Contents

Aircraft	Transmitter	Prop Protective Guard
USB Charger Line	Propeller	Screwdriver
Screw	Battery Charger	Manual
SD Card Reader (Optional)	SD Card (Optional)	

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## Aircraft/Transmitter

Aircraft:

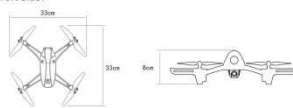


Transmitter:

(Left handed throttle)



Aircraft Size:



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## Basic Parameters and General Information

Aircraft size:	33cm*33cm*8cm
Battery:	7.4V/900mAh
Flying time:	12 minutes
Aircraft battery charging time:	150 minutes
R/C range:	400 meters
WiFi control range:	About 200 meters
Transmitter battery charging time:	120 minutes

## Assembly Instructions

### Installing the Prop Guards

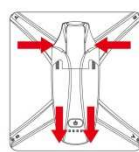
Prepare the following: prop guards, the aircraft, the wrench and the screws. Locate the prop guards by pushing them down. Use the wrench provided to tighten the screws. Refer to the image.



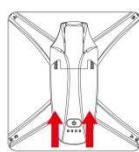
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## Aircraft Battery Assembly/Battery Charging Instructions.

**Aircraft Battery Removal**  
1. Press and hold the release buttons and gently push the battery towards rear of the aircraft. Refer to the image below.

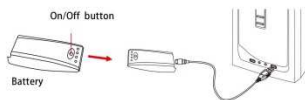


**Installing the Battery**  
2. Install the battery into the aircraft by gently pushing it towards the front of the aircraft. Make sure the battery is installed properly and it is not loose. Refer to the image below.



### Aircraft Battery

3. Connect the charger to the charging cable. Insert the charging cable into computer USB port or other suitable USB charging ports. When charging, the charging line's light will flash red and green. Unplug the charger when the light goes off.



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### Aircraft Transmitter

Turn off the transmitter and connect it to the charging cable. Insert the charging cable into computer USB. When charging, the transmitter's red light indicator light will be on. Unplug the charger when the light goes off. Refer to the picture below.



Caution: Only standard +5-0.5V USB-chargers are supported. Connecting the equipment to the unknown chargers introduces risks: fire, causing injuries or property damage. Always exercise caution when using unknown chargers.

- Caution:
1. Do not leave the equipment unattended while in use.
  2. Make sure only standard +5-0.5V (power supply 500mAh-1A) chargers are used.
  3. After use, allow the aircraft battery to cool down for 30 minutes before charging again.
  4. Do not keep or use the battery in high-temperature areas or near heat sources. Do not throw the battery into fire.

## Flying Environment

R/C range - approx. 300 meters. Note: flying the aircraft out of recommended range may cause loss of the aircraft.

Flying time - approx. 12 minutes. If the aircraft slows down, please recharge the battery.

Warning: do not fly in the strong wind, as the aircraft may fly out of RC range.



\* While flying do not immediately put the throttle stick down, otherwise the aircraft may fall to the ground causing damages to some of its parts. It is recommended to fly the aircraft at 1.5 meters above the ground. Please be aware of your surroundings. Do not fly in places with many obstacles, it may cause unintended damages.

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## Preparation for Flight

### Preparation for Flight

#### 1. Flying environment

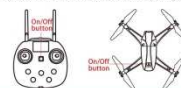
- (1) Maintain at least 1 meter distance between the aircraft and the pilot or other people.
- (2) Make sure there are no obstacles, other people or animals nearby.
- (3) Operate the aircraft away from power lines.

#### 2. Aircraft Battery and Transmitter On/Off Button

- (1) After the short press on the button, the indicator lights will power up for few seconds (checking the battery power). In order to power on, press and hold on the button for 4 seconds. The indicator lights will power up. While already on, pressing the button for 4 seconds will power of the battery, the battery lights will turn off as well.
- (2) Battery protection. The aircraft battery and the transmitter will automatically turn off after 8 minutes of inactivity.

#### 3. Pairing Procedure

- (1) Install a charged battery into the battery bay at the top of the aircraft and turn on the battery by pressing on/off button (4 seconds). The indicator lights at the bottom of the aircraft will start emitting double quick flashes.
- (2) Turn the transmitter on. Move the throttle stick fully up (the transmitter will beep once) and after fully down (the transmitter will emit one more beep). The pairing procedure is completed.



## Accelerometer Calibration

If the aircraft begins to be unstable during the flight or drifts quickly to one direction, please calibrate the accelerometer.

- (1) Simultaneously push both sticks to the lowest right corners. Refer to image. The aircraft indicator lights will start flashing fast indicating accelerometer calibration is entered. After the calibration is finished the aircraft indicator lights will flash as normally (quick double flash).
- (2) Turn off the transmitter and the calibration data will be saved automatically.

Notice: during calibration the aircraft should be placed on a flat level surface.



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### Compass Calibration

**Note:** Always calibrate the compass in every new flight location.

- After the aircraft and the transmitter are paired, place the aircraft on a flat surface. Push the throttle stick down and hold it there, quickly move the directional stick 8 times fully up and fully down. The aircraft indicator lights will start flashing, shifting from near to front (green lights at the rear and red light at the front) indicating that the compass calibration has started. Refer to Image 1.
- Hold the aircraft vertically, with the tail down and nose up the aircraft indicator lights will start flashing in a circle one after another. Rotate clockwise 2-3 times until the aircraft indicator lights will start flashing quickly. Refer to Image 2.
- Place the aircraft on a flat surface. The aircraft lights will start flashing one by one. Rotate the aircraft horizontally clockwise 2-3 times until the aircraft indicator lights will start emitting quick double flashes indicating that the calibration is complete. Refer to Image 3.
- Power off the aircraft battery and the compass calibration data will be stored automatically.

**Caution:**

- When calibrating the compass, keep away from magnetic fields or iron and metal objects.
- When flying in the same flight location there is no need to recalibrate the compass every time before every flying session. Performing a calibration is highly recommended when flying in a new flight location.
- If the aircraft becomes unstable or unsteady when in GPS Mode, it may need to be re-calibrated by repeating the above procedure.
- When flying out doors in the same flight location the aircraft will automatically establish GPS connection. Wait until the aircraft indicator lights turn solid indicating it is ready to fly.







### Arming and Disarming Motors


**Arming:** after successful pairing, arm the motors by pushing throttle stick fully down and hold for 2-3 seconds, the motors will start spinning. Slowly push the the throttle stick up and the aircraft will ascend.

**Disarming:** after landing the aircraft, disarm the motors by pushing throttle stick fully down and hold for 2-3 seconds, the motors will stop spinning.


**Notice:** when arming/disarming the aircraft should be placed on a flat level surface.


### Operations




When the throttle stick is pushed up, the blades will spin faster causing the aircraft to ascend. When the throttle stick is pushed down, the blades will spin slower causing the aircraft to descend.




When the directional stick is moved up, the aircraft will fly forward.




When the directional stick is moved left, the aircraft will fly to the left side.




When the directional stick is moved right, the aircraft will fly to the right side.



When the directional stick is moved left, the aircraft will fly to the left side.




**Auto take-off (Long press):** Long press the button and the aircraft will auto take off and hover at 1.2 meters height. Refer to the image.



**Auto landing:** Long press the button and the aircraft will auto land. Refer to the image.

### Mode Selection

**Height Hold Mode (In door Mode) and GPS Mode (Out door Mode):**  
**Notice:** when flying indoors, it is strongly recommended not to fly in GPS Mode. GPS Mode is the default mode. Short press the Mode button (refer to the image below) will cause the aircraft to switch to Height Hold Mode (In-door Mode). Short press on the Mode button will, cause the aircraft switch back to GPS Mode.




### GPS Mode (Out-door Mode)

After successful pairing, place the aircraft on a flat surface in an open area. Observe the aircraft indicator lights and wait until they turn solid indicating that the aircraft is ready for GPS Mode. To establish strong GPS signal may require, 2-3 minutes may be required. If the aircraft indicator lights continue to emit quick double flashes, it's a indication that aircraft cannot establish a strong GPS connection.

### Headless Mode


Press the left stick once and the transmitter will emit one beep. The aircraft indicator lights will start flashing in circle one by one indicating that headless Mode is activated. Press left stick one more time and the aircraft indicator lights will start flashing an normally double flash or turn solid if GPS reception is good. Refer to the image below.



**When flying in the Headless Mode:** It does not matter in which direction the front of the drone is facing. It will fly forward/backward/left/right relative to the position of pilot.

### One-touch Return Home


While in GPS Mode, short press on the Return Home button and the aircraft will return to the place from where it took off. Refer to the images below. Press One-touch Return Home button one more time and the command will be cancelled.



### Lost Signal Return Home (GPS Mode only)

While in GPS Mode, the Return Home function is automatically activated when the aircraft flies out of control range.




**Notice:** Lost signal Return Home function activation works only with a strong GPS connection.



### Circle Around Mode

**Notice:** Circle Around Mode works only in GPS Mode


- Long press on the Circle Around Mode button, the transmitter will emit one beep indicating that Circle Around Mode is activated. In Circle Around Mode the directional stick controls the radius and the speed of aircraft; pushing the directional stick backward/forward will increase/decrease the radius of the circle from 3 meters and 30 meters; pushing the directional stick to right/left will set the direction of the circle and later pushing the directional stick left/right will increase/decrease the speed. Refer to the images below.
- Press Circle Around Mode button one more time and the command will be cancelled.

### Left/Right Hand Throttle Mode

**Notice:** left handed throttle mode is the default mode.

Turn on the transmitter. Then press and hold the Right-Handed Throttle Mode button and after turn on the transmitter and it will automatically enter the right handed throttle mode. Refer to the image below.



### Speed Modes

There are 3 unique speed modes: beginners, intermediates, advanced. To change speed modes gently press the directional stick the transmitter will beep twice indicating intermediate mode; gently press the throttle stick again and the transmitter will keep 3 times indicating advanced mode; gently press the throttle stick again and the transmitter will keep once indicating beginners mode.

### Transmitter and Aircraft - Low Voltage Battery Protection

- The transmitter's low voltage battery protection is activated when the battery is depleted to a point that may affect safe operation of the aircraft. The transmitter will start emitting beeps. Immediately land the aircraft and charge transmitter battery.
- The aircraft's low voltage battery protection is activated when the battery is depleted to a point that may affect safe return of the aircraft. The aircraft indicator lights will start flashing quickly and the transmitter will start emitting beeps. To avoid a crash or loss of the aircraft, immediately land the aircraft and charge the battery.

### Download Software




#### iOS Phone Software Download Instructions

- Download and install the software. Please download and install the software CX Watcher from APP Store, or scan the two-dimensional code.
- WiFi Connection Instruction
  - Turn the aircraft on and the indicators will begin to flash rapidly.
  - Turn on WiFi and connect CX3D-1080P-XXXX. When the "✓" appears indicating successful connection then exit the setting.
  - Open the software CX Watcher on your iPhone or iPad, then click the icon to enter the control interface.

#### Android Phone Software Download Instructions

- Download and install the software. Overseas User: Please download and install the software CX Watcher through the google play store, or scan the two-dimensional code shown, to download and install. China User: Please download the software CX Watcher through alternative way, or scan the two-dimensional code shown, to download and install.
- WiFi Connection Instruction
  - Turn the aircraft on and the indicators will begin to flash rapidly.
  - Turn on WiFi and connect CX3D-1080P-XXXX. When the "✓" appears indicating successful connection then exit the setting.
  - Open the software CX Watcher on your phone, then click the icon to enter the control interface.

**Notice:** When flying keep away from other WiFi signals as far as possible.






**Caution:** When flying keep away from other WiFi signals as far as possible.

### Instruction For Software Controls

To review pictures and videos click on Album icon. To enter the control interface click Camera icon.

#### WiFi Connection



#### Menu Commands/Tools

1. Wi Mode
2. Controller Interface On/Off
3. Voice Control
4. Follow Me
5. 360 Degrees View
6. Circle Around
7. Altitude Hold Mode/GPS Mode

#### Control

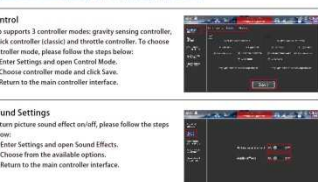
App supports 3 controller mode: gravity sensing controller, 2 stick controller (classic) and throttle controller. To choose controller mode, please follow the steps below:

- Enter Settings, and open Control Mode.
- Choose controller mode and click Save.
- Return to the main controller interface.

#### Sound Settings

To turn picture sound effect on/off, please follow the steps below:

- Enter Settings and open Sound Effects.
- Choose from the available options.
- Return to the main controller interface.



### Compass Calibration

Please follow the steps below:

- Enter Settings and click on the Compass Calibration icon, then click on the Start Calibration icon.
- The aircraft indicator lights will start flashing, shifting from near to front (green lights at the rear and red light in the front) indicating that compass calibration has started. Hold the aircraft vertically, with the tail down and nose up the aircraft indicator lights will start flashing in a circle one after another. Rotate clockwise 2-3 times until the aircraft indicator lights will start flashing quickly. Next, hold the aircraft horizontally. The aircraft lights will start flashing one by one. Rotate the aircraft horizontally (clockwise) 2-3 times until the aircraft indicator lights will start emitting quick double flashes indicating the calibration is complete.
- After successful compass calibration click on the Calibration Complete icon and return to the main controller interface.

### Gyroscope Calibration

Please follow the steps below:

- Enter Settings and click on Gyroscope Calibration icon.
- Place the aircraft on a flat level surface and click on 'Start Calibration' icon. Wait until the aircraft's lights stop flashing quickly, this indicates successful calibration (after successful calibration the aircraft indicator lights will start flashing slowly).
- After successful calibration return to the main controller interface.

### Circle Around Mode

Please follow the steps below:

- Enter Commands/Tools menu and click on Circle Around command. Circle Around icon will appear in the top left corner of the controller interface.
- Circle Around Mode the directional stick controls the radius and the speed of the aircraft; pushing the directional stick forward/backward will increase/decrease the radius of the circle; pushing the directional stick to right/left will set the direction of the circle and later pushing the directional stick left/right will increase/decrease the speed.
- Click on the Circle Around icon (top left corner of the controller interface) and the command will be cancelled. **Notice:** Circle Around Mode works only in GPS Mode.

### Voice Control Mode

Please follow the steps below:

- Enter Menu and click on the Voice Control icon.
- After the Voice Control has been activated, say a command and the aircraft will perform it.
- Click the Exit icon to return to the main controller interface.

**Notice:** Voice Control Mode works only in GPS Mode. The aircraft performs commands one by one. When giving commands please wait for 3 seconds after the command is performed before giving another command.

**Warning:** When flying in Voice Control mode may occur. The pilot should always maintain a safe distance of at least 2-3 meters.

### Follow Me Mode

Follow Me mode works only with the smart phone App.

Please follow the steps below:

- Follow Me icon will appear in the top left corner of the controller interface.
- The aircraft will turn towards the smart phone in the camera will be pointing towards the pilot (the person holding the phone). The Follow Me mode works within 5-10 meters range.
- Click the Follow Me mode icon to return to the main controller interface. Follow Me mode will be automatically cancelled. **Notice:** Follow Me mode requires at least 15 GPS satellites.

### Full View 360 Panorama Video

It is recommended to use this feature after the aircraft is in a stable hovering position. The command works only in GPS mode.

Please follow the steps below:

- Enter the Menu and click on the Full View icon.
- The aircraft will rotate 360 degrees clockwise and at the same time video recording will be activated. After the video is taken, it can be saved or shared with friends.

**Notice:** It is recommended to use this feature under condition of no strong winds.

### Troubleshooting

Problem	Solution
While hovering in the air the aircraft is unstable.	GPS signal not strong enough. Change hovering location. Re-calibrate compass.
Motors do not spin.	Change or re-charge the aircraft battery. Check for damages.
Aircraft does not take off.	A and B marked propellers are not installed in a correct way. Please refer to page number 4 and re-install the propellers.
Aircraft does not return home accurately.	1. Poor GPS signal, make sure you are flying in place with a clear view of the sky and away from buildings, trees and high voltage lines. 2. Change flying location. 3. Re-calibrate the compass.
Aircraft is unstable when hovering.	1. Disarm the motors and wait for few seconds. Re-arm motors again and wait for few seconds. Wait for the red/green aircraft indicator lights to emit double flashes before moving the aircraft. 2. When pairing the aircraft with the transmitter. Do not move the aircraft. 3. Re-calibrate gyroscope.
While in Follow Me Mode, the aircraft does not responding properly.	1. Poor GPS signal. 2. WiFi signal interference. 3. Activate LOCATION (positional information) on your smart phone.

**Warning:** Changes or modifications to this unit 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.

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.

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