

USER MANUAL

Please read and follow all instructions and

Do not discard the manual.

1.ATTENTION: please make sure to follow the first pairing procedure correctly.

bottom of the aircraft. After, press and hold the Return Home button and turn

First pairing procedure. Install a charged battery into the battery bay at the

After successful pairing the signal strengths barrels will appear as shown

Basic pairing procedure. Install a charged battery into the battery bay at the

bottom of the aircraft. After, turn on the transmitter by pressing on the on/off

Signal strengths barrels

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The main interface

button. The main interface screen will appear on the transmitter display.

After successful pairing the signal strengths barrels will appear as shown

Turn on the aircraft's battery and place the aircraft on a flat surface.

on the transmitter by pressing on the on/off button. The message

Turn on the aircraft's battery and place the aircraft on a flat surface.

"Searching RF signal.." will appear on the transmitter's display.

3.Preperation for Flight

lights will turn off as well.

Pairing Procedure

Aircraft Battery On/Off Button

After the short press on the button. The indicator

In order to power on, press down on the button

for 4-6 secs. The indicator lights will power up.

While already on, pressing down on the

lights will power up for few seconds (checking the

button for 4-6 secs will power off the battery, the battery

warnings in the manual prior to set up or use.

Basic Aircraft Spesification

Aircraft Weight: 230g

Flying Environment: Outdoors Motors: 1306 Battery: 7.4V 1200mAh 20C ESCs: 10A

Image Resolution: 720X1080 Transmitter: TX-23 R/C Range: Around 500m Monitor Resolution: 272X480 Propeller Diameter: 100mm Aircraft Size: 90mm

Distance between Shafts: 200mm Flying Time: 13 minutes

Main Functions

If this equipment does cause harmful interference to radio or television reception, which can be

Reciever: RX-23

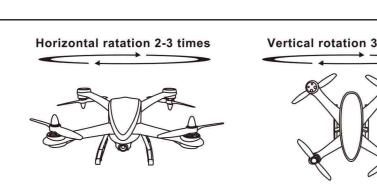


- -- Reorient or relocate the receiving antenna. -- Increase the separation between the equipment and receiver
- -- Consult the dealer or an experienced radio/TV technician for help.

. After the aircraft and the transmitter are paired. Place the aircraft on a flat surface and continously press MODE until the transmitter dispalys "Rotate Horizontal"

transmitter. Calibration is now complete. You may re-pair the transmitter with the 4. If the aircraft becomes unstable or unsteady during a flight, it may need to be

re-calibrated by repeating the above procedure.



Accelerometer Calibration

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

2. Push the throttle down and hold the position. Move the directional stick quickly to right and left, until the back light on the aircraft flashes (red-green-blue). Then release the sticks.



Dear Customers: We appreciate you for choosing our products.

for future references.

For the safety reasons, please read the manual carefully. Keep the manual

This is not a toy. It is a sophisticated hobby product equiped 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

of parts. The product is suitable for hobbyist who are over 14 years old. Please fly in areas where flying is permitted. 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

(1) It is a high-risk product and we recommend always operate it in open spaces

directions around the device while it is in operation to avoid collisions or injury.

away from people, vehicles and property. Always keep a safe distance in all

(2) 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-23. The pilot is responsible for the Flying CX-23 1. Make sure all the batteries are fully charged: transmitter battery and aircraft

2. Plug aircraft's battery and then turn on the transmitter. After the flight, unplug

be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be

3. Wait until the aircraft's lights stop flashing rapidly. This is an indication

Attention: the aircraft should be placed on a flat surface; during the

Attention: if the back light of the aircraft flashes red-green-blue then the

sticks at the same time (push the left stick to the bottom-left corner and the

motors will start spinning. Slowly push the throttle stick up and the aircraft

will ascend. Disarming: after descending the aircraft, disarm the motors by

pushing both sticks at the same time (push the left stick to the bottom-left

corner and the right stick to the bottom-right corner) and hold for 2-5 seconds,

right stick to the bottom-right corner) and hold for 2-5 seconds and the

Arming: after successful pairing, arm the motors by pushing both

calibration procedure do not move the aircraft.

accelerometer calibration is needed.

the motors will stop spinning.

4. Arming and Disarming Motors

that the calibration was successful (the back light on the aircraft flashes green).

accidents which are caused by incorrect operation, or incorrect installation

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.

co-located or operating in conjunction with any other antenna or transmitter -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should

3. Operate the product in open spaces away from: obstacles, people,

conditions - strong wind, rain and thunder are the potential risk

6. Obey the local UAV laws and regulations. CX-23 piloting requires

specific skills and should be learned under direct supervision of an

experienced adult. We recommend to use computer simulative software

in order to get basic flying experience before taking CX-23 to the field.

8. Do not fly the aircraft while under the influence of alcohol. Keep away

9. CX-23 is build out of: metal, fiber, plastic and electronic components.

Therefore, keep away the aircraft from heat sources in order to avoid

from the rotating blades (rotating blades may cause bodily injuries,

power lines, high buildings etc. Pay attention to the weather

4. Avoid water exposure to this product. Keep all the parts dry.

factors which can lead to a loss of control.

7. Always keep the device in sight during operation.

5. Replace broken parts of the aircraft.

or damage the property).

5.Controlling the Aircraft

Ascend

Descend

Left rotation

Right rotation

Forward

Backward

Landing gear Removal (1) Press the release buttons and gently pull down the landing gear struts. Refer to the

accidents.

2 Installing the Landing Gear

(1)Locate the landing gear struts by

pushing them down. Refer to the image.

1.Assembly Instructions

(1) Remove the propeller nut from the motors using the wrench supplied.

Attention: Improper propeller installation can cause aircraft damage and

(2) Fit the clockwise propellers, they are labeled M2 and M4. Tighten

(3) Fit the counter-clockwise propellers, they are labeled M1 and M3.

1.Installing the Propellers

the nuts counter-clockwise.

Tighten the nuts clockwise.

6.Mode Selection I.Height Hold Mode (On the transmitter display labeled with letter A; Mode button indicator light is green). Height Hold Mode allows the aircraft to maintain the same altitude. After take off, each wanted height and release the throttle (it will automatically return to the niddle) and the aircraft will fly at the same height. Allow sufficient space to fly in this

Press the release buttons and

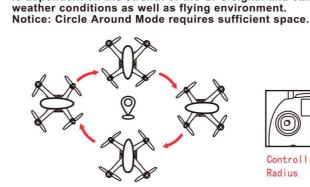
gently pull the landing gear strut

Notice: Height Hold Mode is the default mode. 2.GPS Mode (On the transmitter display labeled B; GPS Mode button indicator ght is red); short press on Mode button. GPS Mode maintains the same altitude and position. After successful pairing, place aircraft on a flat surface in the open area. Press the Mode button once. ne transmitter display mode will change to the letter B and the Mode button's light will flash red. After, observe the GPS satellite number on the transmitter's display.

When the number reaches 7 GPS satellites, the aircraft is ready for GPS Mode. After take

node as aircraft's position can still be affected by the wind and other weather

off and reaching the desired altitude and position, release the throttle stick (it will automatically return to the middle) and aircraft will stay in the same position. The accuracy of the hover point is dependent on the strength of the GPS signal and can be affected by the wind and other weather conditions as well as flying environment. 3.Circle Around Mode (On the transmitter display labeled C; Circle Around Mode button ndicator light is grren-yellow); long press on the Mode button. In Circle Around Mode, the ircraft will circle around the location below if the number of GPS satellites is at least 7. While in Circle Around Mode, the directional stick is used to control the radius and the speed of aircraft: pushing the directional stick backward will increase the radius pushing it forward will decrease the radius; pushing the directional stick to the right will ncrease the speed of aircraft, pushing it backward will decrease the speed. Accuracy s dependent on the strenth of the GPS signal and can be affected by the wind and other



4.Return Home Function

Controlling Circle Controlling Circle

While in GPS mode (labeled B),long press on the Return Home and the aircraft will come back to the place where it took off.

7. Charging Batteries

9.Height (meters)

2. Signal strength

5.GPS satellites

7.Distance (meters)

6.Speed m/s

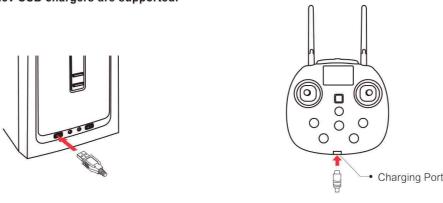
1.Transmitter battery voltage

8.Ascend/descend speed m/s

4. Aircraft battery voltage

2.Display

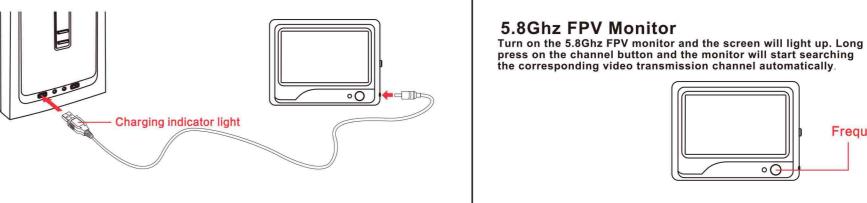
Turn off the transmitter and connect it to the charging cable. Insert the charging cable into computer USB port or other USB charging ports. When charging, the transmitter's green indicator light will be on. Unplug the charger when the light goes off. The USB charging cable can be connected to Apple chargers and other smart phone chargers It also can be charged using portable batteries and car phone charges. Only standard +5+0.5v USB chargers are supported.



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3.Mode: A(height hold); B(GPS); C(circle around)

Turn off the monitor and connect it to the charging cable. Insert the charging cable into computer USB port or other USB charging ports. When charging, the charging cable's red indicator light will be on. Unplug the charger when the light goes off. The USB charging cable can be connected to Apple chargers and other smart phone chargers. It also can be charged using portable batteries and car phone chargers. Only standard +5+0.5v USB chargers are supported.



Aircraft Battery

Power on the battery (press down on the button for 4-6 secs) and after the battery lights are on connet the battery to the charger. Plug the AC adaport into a power outlet. After the battery is fully charged all 4 indicator lights will be on and the indicator light on the charger will change from green to red. Disconnect the battery from the charger and unplug the charger from the power outlet.

The battery supplied with aircraft is 2S (7.4V) Li-Po. Only use the supplied charger to

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10.Pitch

11.Roll

12.Yaw

14.Latitude

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15.Longitude

13.Flight time (minutes)

8. 5.8GHz FPV System

Changing Frequency Channels of the Aircraft In order to avoid interference of video frequencies, a pilot may change frequency channels on aircraft. There are 32 frequency channels. 1 Press and hold the Return Home button and turn on the transmitter by pressing the on/off button. The message "Searching RF signal.." will appear on the transmitter' display. Turn on aircraft's battery and place aircraft on a flat surface. The 5.8Ghz frequency channel will change automatically. 2 Above procedure may need to be repeated few times in order to avoid interference wit

Aircraft flips/crashes when

function is not working

There is no GPS satellites connection

While in GPS mode aircraft does not hold the position

Re-calibrate the compass

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Mode A or B.

2. Transmitter Functions and Settings (Left-handed throttle

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USB Charger lines(X2) 5.8GHz FPV Monitor

Landing Gear

Propellers

①Check that the propellers have been installed

①Flying Mode C has been chosen, please switch to

①Poor GPS signal, make sure you are flying in

buildings, trees and high voltage lines.

place with a clear view of the sky, and away from:

Monitor mount 🔼

Aux1 (disabled)

hrottle/left&rig

rotational stick

One touch landing

(long press)

Mode button

A-height hold (short press,

green light); B-GPS (short press, red light);

C-circle around (long press, green-yellow light)

9.Box Contents

Aircraft

Screwdrivers(X2)

Transmitter battery

charge indicator light

(While charging the green (Long press, light is on; The light red light)

Transmitter

on/off switch

On/off button

Directional stick

One touch take-off

(long press): short press

allows to see other

Short press to take a picture. Long press

to record/stop recording and save videos (While

recording video the red light is on)

Propeller nuts wrench

Manual

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①Poor GPS signal, the minimum number of GPS satellites required is 7. 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. ②Poor GPS signal, the minimum number of GPS satellites required is 7. 3 Re-calibrate the compass.

②Aircraft battery needs charging



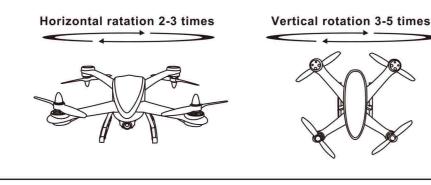
One touch return home

interference will not occur in a particular installation.

On/off button

- 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:
- **Compass Calibration** Please note: performing a calibration is highly recommended before every flying

(the green light at the back of the aircraft will flash rapidly). Rotate the aircraft lockwise 2-3 times until the transmitter displays "Rotate Vertical" (the green light at the back of the aircraft will start flashing slowly). 2. Hold the aircraft vertically, with nose down and tail up. Rotate clockwise for 3-5 times until the message "Rotate Vertical" is no longer shown on the transmitter display On successful calibration, the transmitter display will return to the main interface. 3. Now place the aircraft on a flat surface. Power off the aircraft battery and turn off the



. Turn on the aircraft/transmitter. The aircraft should be placed on a flat

of the aircraft should be slowly flashing green.

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Frequency Button

Aircraft does not return home accurately