

JUMPER

FAST ELEMENTARY MANUAL



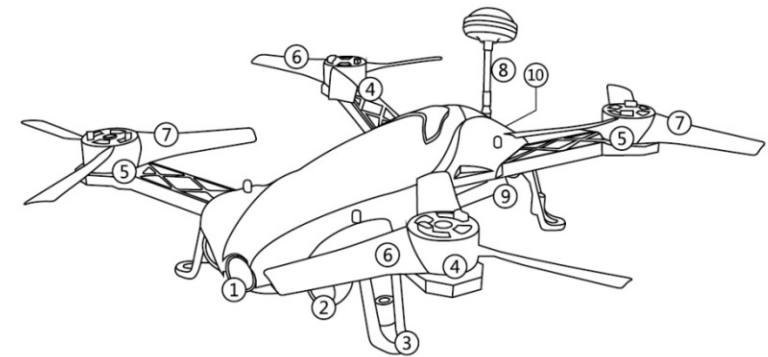
Please carefully read this manual before flying! There is important information content in this manual and please keep it.

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1.0 KNOW ABOUT THE AIRCRAFT

The main body uses the Nylon and Fiber composite materials, which has the advantages of super-strong characteristics and strong impact resistance etc. New industrial and modulate design which increases the product's expansibility, convenience for installation maintenance and changes and upgrades etc. It is equipped with 5.8G real-time FPV system which can give you different visual effects. It can realize the stunt flying experiences of forward/backward, left/right flip and crossing etc.



- 1.Camera (720x1280)
- 2.White LED light
- 3.Skid landing x4
- 4.Clockwise motor
- 5.Anti-clockwise motor
- 6.Clockwise propellers (A1、A2)
- 7.Anti-clockwise propellers (B1、B2)
- 8.Mushroom antenna
- 9.11.1V 1600MAH 3S Lithium battery
- 10.Red/Green LED Light

2.0 PARAMETER

Parameter of Aircraft

Length of Main Rotor: 120mm

Aircraft (length x width x height): 240x250x80mm

Weight: 420g (with battery)

Transmitter: CX-91

Receiver: RX CX-91

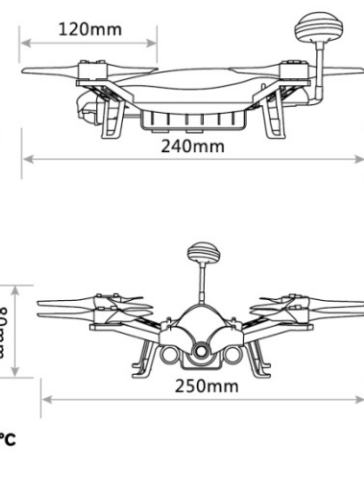
Brushless Motor: 1806

Brushless ESC: 4 in 1 Brushless ESC 18A

Lithium battery: 11.1V1600mAh 3S Li-Po

Flying time: 10~12 minutes

Working Environment Temperature: -10°C to +40°C

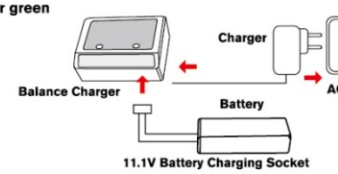


3.0 NOTICE OF FLYING

- (1)This product is suitable for the players with aeromodeling experiences and ages of more than 14 years.
- (2)Do not fly in bad weather, such as strong windy, snowy, rainy and foggy.
- (3)Choose to fly in the spacious and legal flying place.
- (4)When flying, please go far away from the high-speed rotating parts (such as blades and brushless motors)
- (5)Don't fly in the areas of high tension line, communication station or launch station etc. so as to avoid the transmitter to be disturbed.
- (6)Don't fly in the forbidden areas of relevant laws or regulations restricted.

4.0 CHARGING

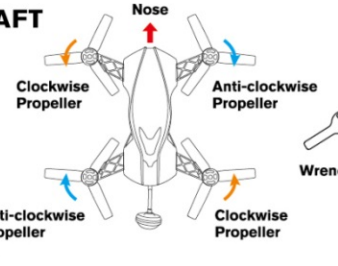
- (1) Insert the power adapter for charging (100~240V50/60HZ), and connect the output port with the balanced charger. The balanced charger green indicators are lighting constantly at this time.
- (2) Insert the battery charging port to the balanced charger.
- (3) When the battery is charging, the red lights are charging indicators. When inserting the battery, the red indicators are lighting constantly and after charging, the red light is out.



5.0 INSTALLATION OF AIRCRAFT

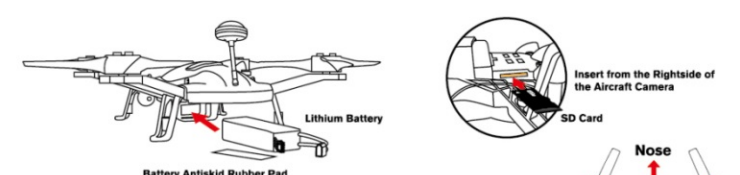
5.1 Installation Of Propellers

Install the clockwise propellers (A1) to the upper cover of the motor from up to down and use the wrench to tighten the upper cover of the motor by clockwise direction. Install the anti-clockwise propellers (B1) to the upper cover of the motor from up to down and use the wrench to tighten the upper cover of the motor by anti-clockwise direction.



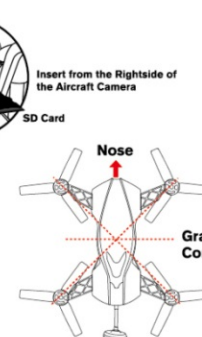
5.2 Installation of Battery and SD Card

Install the battery and battery antiskid rubber to the aircraft for adjusting the gravity core of the aircraft, keeping the nose and the tail horizontally, and fix the battery with straps after adjusting.



Gravity Core Adjusting Way of Aircraft

Hang the aircraft by taking the gravity core line of it as the fulcrum, and if the nose drooping, it means the gravity core is forwarding. Please move forward the battery until the nose and the tail are keeping horizontally.

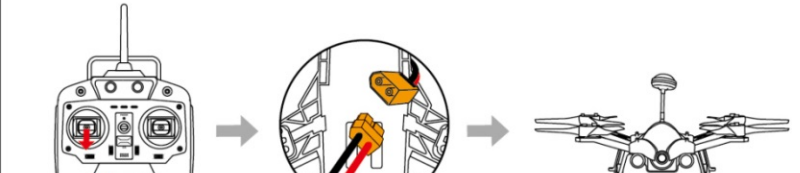


6.0 PREPARE TO TAKE-OFF



6.1 AIRCRAFT DECODING

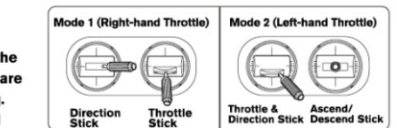
- (1)Place all the functional switches on the transmitter to "0", place all the trimming/rotating buttons to the middle and place the throttle stick to the lowest position.
- (2)Place the aircraft statically on the horizontal place and connect with the power of aircraft.
- (3)Turn on the power switch of the transmitter and wait for the tail lights of the aircraft to be lighting constantly, it means that the decoding is successful.



6.2 MOTOR UNLOCKING/LOCKING

Motor Unlocking

After successful decoding, place the throttle stick to the lowest point and push the direction stick to the right side. When the tail green lights of the aircraft are lighting constantly, it means the motor is unlocking. When push the throttle stick upward, the motor will rotate now.



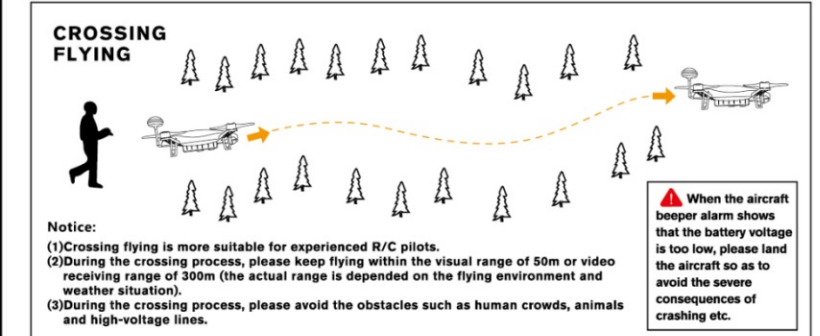
6.3 INTRODUCTION OF PICTURES/VIDEOS FUNCTIONS

Functions	Switch Setting	Storage Types	Show Status	No SD Card Showing
Take Pictures	Push the SWB to "0"	SD card will store automatically	When taking pictures, the screen of the monitor will flash once	X
Take Videos	Push the SWB to "1" and begin. Push the switch to "1" again after taking videos	SD card will store automatically	When the red indicator on the monitor is flashing slowly, it means it is taking videos and when the red indicator is stop flashing, the video taking is finished	X

7.0 OPERATE THE FLYING

Aircraft Status (← is the nose direction)	Transmitter Control Illustration	
Aircraft Ascend/Descend	Mode 1 (Right-hand Throttle)	Mode 2 (Left-hand Throttle)
Aircraft Forward/Backward	Mode 1 (Right-hand Throttle)	Mode 2 (Left-hand Throttle)

Aircraft Status (← is the nose direction)	Transmitter Control Illustration	
Aircraft Left-leaning /Right-leaning	MODE 1/MODE 2	MODE 1/MODE 2
Horizontally Adjusting the Tail	MODE 1/MODE 2	MODE 1/MODE 2
Front Flip of Aircraft	Push the SWA switch to "0": Stabilize Mode	Push the SWA switch to "1": Manual Mode
Back Flip of Aircraft	Notice: (1)You should choose a bigger space with soft ground for flying. (2)The flip mode is more suitable for experienced R/C pilots. (3)In the flip process, it requires to practice with the throttle stick. When the aircraft goes descend, please appropriately rise the throttle and when the aircraft goes ascend, please appropriately lower the throttle.	
Left Flip of Aircraft	Push the SWA switch to "0": Stabilize Mode	Push the SWA switch to "1": Manual Mode
Right Flip of Aircraft	Notice: (1)You should choose a bigger space with soft ground for flying. (2)The flip mode is more suitable for experienced R/C pilots. (3)In the flip process, it requires to practice with the throttle stick. When the aircraft goes descend, please appropriately rise the throttle and when the aircraft goes ascend, please appropriately lower the throttle.	



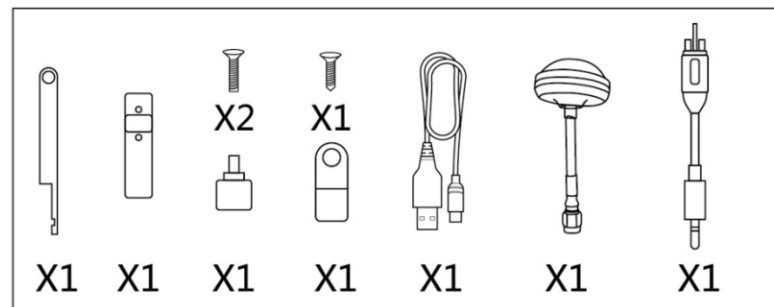
8.0 FINISH THE FLYING

- (1)Manual Landing
- (2)Turn off the power of the aircraft first and then turn off the power of the transmitter
- (3)Take out the battery from the aircraft

5.8G 4.3" 32CH RECEIVER SPECIFICATIONS



SPARE PARTS OF MONITOR



PRODUCT SPECIFICATION

4.3 inch LCD monitor with 5.8GHZ 32CH Audio/Video Receiver

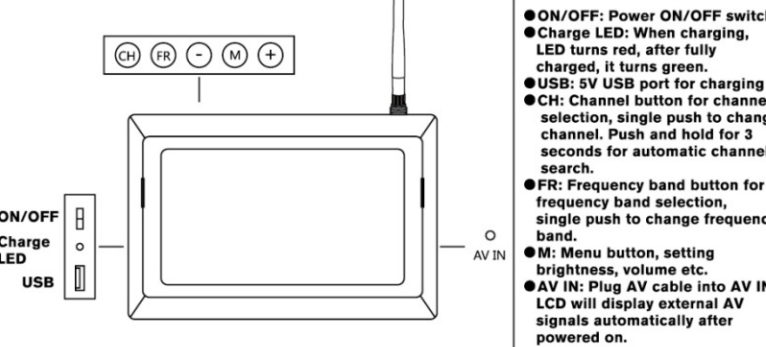
Features:

1. 4.3inch, 16:9, sunshield protection
2. 4 bands, 32 CH, with Raceband
3. High brightness
4. One-key-search frequency
5. Work status OSD display: Battery indication, channel indication

Items	Specifications
Screen size	4.3inch
Screen type	TFT LCD screen/long life
Resolution	480x272 pixels
Aspect ratio	16:9
Brightness	500cd/m2

Items	Specifications
Video format	NTSC
Input signal	AV
Working voltage	5V
Power consumption	500mA
Work status OSD display	battery indication; Channel indication
Built-in rechargeable battery	2200mAh
Working time	2 hours
Dimension	122.7x80x14.5mm
Sensitivity	-90dBm
Frequency range	5745MHz-5865MHz
Channel	7 Channel
One-key-search frequency	
Audio	6.0MHz 6.5MHz

SCREEN INSTRUCTIONS:



10. 5.8G SENDER SPECIFICATIONS

Operation Frequency each of channel			
Channel	Frequency	Channel	Frequency
1 CH	5745 MHz	5 CH	5825 MHz
2 CH	5765 MHz	6 CH	5845 MHz
3 CH	5785 MHz	7 CH	5865 MHz
4 CH	5805 MHz		

11. PRODUCT LIST

Aircraft	Transmitter	Monitor	Battery
Balance Charger	Wrench Screw driver	Propellers (x8)	Antenna
			Mushroom antenna

Dear Distinguished Customers:

Good day!

Thanks very much for buying our products. In order to allow you rapidly and safely handle the operation of the aircraft, please carefully read the manual and properly keep the original manual for reviewing and reference later on.

1 Important Statement

- (1) This is not a toy but the fine equipment integrated with professional knowledge of machine, electronic, aero-mechanics, high-frequency emission and so on. It needs the correct installation and debugging to avoid accidents. The holder should control it by safe ways; it may cause severe physical injuries or property damages if with improper operation. We don't take responsibilities for this because we can't handle the process of installation, usage and operation.
- (2) This product is suitable for the persons who have the experience with the age of no less than 14 years old.
- (3) The flying yard should be the legal RC model flying yard.
- (4) We will not make any safety responsibilities from operation, using and controlling etc. when it is sold.
- (5) We delegate the dealer to provide technology support and after-sale service when you happened to some problems of using, operation and maintenance. Please contact with the local dealer.

2 Safety Precautions

RC model is high-risky product and it should keep far away from crowds when flying. It would make unexpected accidents of aircraft damages or physical injuries etc. by artificial inappropriate installation or body damages, defective electronic control equipments as well as familiar operation. The pilot must pay attention to the flying safety and know about the responsibilities of accidents by their own carelessness.

3 Precautions before Flying

- (1) Make sure the battery of the transmitter and the receiver are in full status.
- (2) Make sure the throttle stick and throttle trimming of the transmitter are in the beginning position.
- (3) Pay attention to sequence of the power turn ON/OFF. When turn on, it should turn on the power of the transmitter and then turn on the power of the aircraft; when turn off, it should turn off the power of the aircraft and then turn off the power of the transmitter. It may cause the aircraft being out of control with wrong turn ON/OFF sequence and influence the safety of oneself and others. Please develop the right turn ON/OFF hobby.
- (4) Make sure the firm and reliable joint connection of battery and motors etc. When the aircraft constantly shakes, the power joints may loosen and the aircraft may be out of control.

(5) Far away from Obstacles and Humans

The RC aircraft has the uncertain flying speed and status as well as the potential risks when flying. It should fly far away from human beings, high buildings and high-voltage line etc., and it should avoid flying in bad weather such as windy, rainy, thundering etc. to make sure the safety of the pilots, people and property around.

(6) Far away from Wet Environment

The interior of the aircraft consists of lots of fine electronic components and mechanical parts. Therefore, it should prevent the aircraft from humidity and moisture to avoid accidents from machinery and electronic components breakdown.

(7) Properly Use This Product

Please make sure the original spare parts to upgrade, refit or maintain so as to make sure the safety of the aircraft, and don't use it for other illegal purposes but the security laws.

(8) Avoid Independently Control of Beginner

There is a certain difficulty at the beginning of the RC aircraft control. You should avoid handling it independently and you need some experienced persons for guidance (It is one of the effective learning ways to practice by using computer simulation software or ask some experienced RC pilots for guidance).

(9) Safety Operation

Please control the aircraft according to your own status and flying skills. It will increase the probability of accident risks if you are fatigue and out of sorts or the operation is inappropriate.

(10) Far away from High-speed Rotated Components

When the propellers are rotating in high speed, the pilot, people around and objects should keep far away from the rotated components so as not to cause risks and damages.

(11) Far away from Heat Source

The RC aircraft consists of metal, fiber, plastic and electronic components etc. Therefore, you should keep away from heat source and prevent from exposure as soon as possible so as to avoid deformation or even damages from high temperature.

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.	
CE0890	
FAST ELEMENTARY MANUAL	
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Declaration of Conformity

We Guangdong Cheerson Hobby Technology Co., Ltd.
(Name of Applicant or his authorized representative)

Fengxin No.2 Road & Laimei Road Fengxin Industrial Zone Chenghai Shantou Guangdong province, China _____
(Address)

Declare under our own responsibility that the product

Product description : UFO

Model :CX-91,CX-91A,CX-91B,CX-91C,CX-91D,CX-92,CX-93,CX-94,CX-95,CX-96,CX-97,CX-98,CX-22,CX-36,CX-37,CX-38,CX-39,CX-50,CX-51,CX-52,6048F,6048S,CX-20,CX-10,CX-10A,CX-10C,CX-10W,CX-10D,CX-10DS,CX-12,CX-33,CX-35.

(Model, descriptions, versions, supplementary characteristics)

to which this declaration refers conforms with the relevant standards or other standardizing documents

EN 301 489-1 V1.9.2 (2011-09)

EN301 489-3 V1.6.1 (2013-08)

EN 300 440-1 V1.6.1 (2010-08)

EN 300 440-2 V1.4.1 (2010-08)

EN 62479:2010

(Titles, dates of publication of documents mentioned)

According to the regulations in Directive 1999/5/EC

(if necessary: directives, main regulations)

2016-05-10

(Place, date)

JIA HUA CHEN

(Name and signature of person responsible)