# TROUBLESHOOTING

Issue	Possible Case	Solution .
The F10 will not initialize	The F10 was moved during initialization.	Turn the F10 off then back on again, and ensure it does not move during the initialization process.
Flight battery will not charge	Poor connection between the USB cable and the flight battery.	Check your connections on both the USB cable and the flight battery.
F10 motors will not start	F10 is in No Fly Zone.	Move at least 4 miles away from no fly zone. Most major airports are no fly zone areas.
	F10 is above 8,000 feet above MSL.	Move the F10 below 8,000 feet above MSL.
	Incorrect motor startup procedure.	Review Motor Starting/Stopping procedure in manual.
	F10 is too close to a metal object or metal surface.	Move the F10 away from large metal objects or surfaces.
F10 beeps constantly and motors won't start	EMERGENCY Mode. Possibly due to obstructed propeller during motor start up.	Check that nothing is obstructing any propeller/motor, turn the F10 off then back on again.
F10 will not hold position in hover	Weak wireless signal.	Confirm that the flying area has 100 degrees of clear view of the sky.

# CONTACT CONTIXO:

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F10 DRONE



INSTRUCTION MANUAL

www.contixo.com

# NOTICES AND WARNINGS

IMPORTANT NOTE: All safety precautions and warnings, instructions, warranties and other collateral information is a such change at the sole discretion of Contixo. For the most up-to-date information please visit the corresponding product page at www.contixo.com or contact the nearest Contixo office or authorized distributor.

The following special language terms are used throughout the product literature to indicate various levels of potential harm when operating this product:

NOTICE: Procedures, which if not properly followed, create a possibility of property damage and/or little to no possibility of injury.

CAUTION: Procedures, which if not properly followed, create the probability of property damage and/or a possibility of serious injury.

WARNING: Procedures, which if not properly followed, create the probability of property damage, collateral damage and/or serious injury or create a high probability of superficial injury.

WARNING: Read the ENTIRE quick start guide and instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, property and/or cause serious injury.

WARNING: This is a sophisticated consumer product. It must be operated with caution and common sense, and requires some basic mechanical ability. Failure to operate this product in a safe and responsible manner could result in damage to the product, property and/or cause serious injury. This product is not intended for use by children without direct adult supervision. Do not use with incompatible components or alter this product in any way outside of the instructions provided by Contixo. The quick start guide and instruction manual contain instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings prior to assembly, setup and/or use in order to operate the product correctly and avoid damage or serious injury.

AGE RECOMMENDATION: NOT FOR CHILDREN UNDER 14 YEARS.

### GENERAL SAFETY PRECAUTIONS AND WARNINGS



KEEP CLEAR OF THE SPINNING PROBELLERS!



DO NOT RLY NEARBY TALL BUILDINGS/OBSTRUCTION S(1000 MINIMUM CLEARANCE REQUIRED)



THE MAXIMUM FLYING ALTITUDE FOR THIS AIRCRAFT IS 8000FT ABOVE SEA LEVEL!



DO NOT FLY OVER CROWDA!



DO NOT FLY NEAR AIRPORTS!



DO NOT FLY IN WINDS THAT EXCEED 8-12 MPH (13-19KPH)!

WARNING: Failure to use this product in the intended manner as described in the instruction manual can result in damage to the product, property and/or cause serious injury. If misused it can cause serious bodily harm and damage to property.

WARNING: As the user of this product you are solely and entirely responsible for operating it in a manner that does not endanger yourself and others or result in damage to the product or the property of others.

- Keep your hands, face and other parts of your body away from the spinning propellers/ rotor blades and other moving parts at all times. Keep items that could impact or become entangled away from the propellers/rotor blades including debris, parts, tools, loose clothing, etc.
- Always operate your aircraft in open areas that are free from people, vehicles and other obstructions. Never fly near or above crowds, airports or buildings.
- To ensure proper operation and safe flight performance never attempt to operate your aircraft nearby buildings or other obstructions that do not offer a clear view of the sky and can restrict GPS reception.
- Do not attempt to operate your aircraft in areas with potential magnetic and/or radio interference including areas nearby broadcast towers, power transmission stations, high voltage power lines, electrical storms, etc.
- Always keep a safe distance in all directions around your aircraft to avoid collisions and/ or injury. This aircraft is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.

- To ensure proper and safe operation of the automatic landing function in Home Mode you
  must start the motors with the aircraft in a position that has at least 10 feet (approximately 3
  meters) of clear and open space around it and achieve a proper GPS lock.
- Do not attempt to operate your aircraft with any worn and/or damaged components, parts, etc. (including, but not limited to, damaged propellers/rotor blades, old batteries, etc.).
- Never operate your aircraft in poor or severe weather conditions including heavy winds, precipitation, lightning, etc.
- Always operate your aircraft starting with a fully charged battery. Always land as soon as
  possible after the first level low voltage battery warning or land immediately after the second
  level low voltage battery warning (as indicated by the vibrations and audible alerts from the
  transmitter/personal ground station),
- Always operate your aircraft when the voltage of the battery in the transmitter/personal ground station is in a safe range (as indicated by the battery charge status icon on the screen of the transmitter/personal ground station).
- Always keep the aircraft in clear line of sight and under control, and keep the transmitter/ personal ground station powered on while the aircraft is powered on.
- Always move the throttle control joystick down fully and turn off the motors in the event the propellers/rotor blades come into contact with any objects.
- Always allow components and parts to cool after use before touching them and flying again.
- Always remove batteries after use and store/transport them per the corresponding guidelines.
- Avoid water exposure to all electronic components, parts, etc. not specifically designed and protected for use in water. Moisture causes damage to electronic components and parts.
- Never place any portion of the aircraft or any related accessories, components or parts in your mouth as doing so could cause serious injury or even death.
- Always keep chemicals, small parts and electronic components out of the reach of children.
- Carefully follow the instructions and warnings included with this aircraft and any related accessories, components or parts (including, but not limited to, chargers, rechargeable batteries, etc.).

CAUTION: The electronic speed controls (ESCs) installed in the F10 are not compatible with any other product, and the F10 is not compatible with any other ESCs. Use of any other ESCs in the F10 will cause a crash, which may result in damage to the product, property and/or cause serious injury.

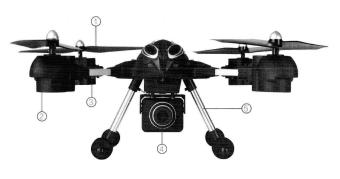
# INTRODUCTION

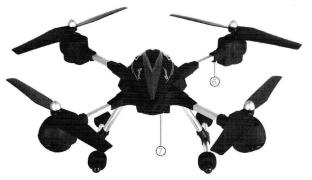
Thank you for purchasing this amazing tech toys product. This aircraft is suitable for indoor and outdoor flight. Please carefully read the entire manual before operating this aircraft and keep it for reference in the future.

#### PACKAGE CONTENTS

F10	Remote Control-2.4GHz	Spare Propellers
	To the state of th	
Protection Frames	LiPo Battery	USB Charging Cable
Screwdriver	Screws	Landing Gears
Instruction Manual		
(S-100)		

# AIRCRAFT DIAGRAM





- 1. Propellers
- 2. Motor

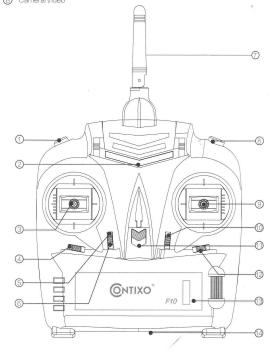
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- 3. Front Indicator
- 4. Camera Lens
- 5. Landing Gear
- 6. Rear Indicator
- 7. Battery Level Check Button

# REMOTE CONTROLLER DIAGRAM

- 1 Trumbling Key
- 2 Power Indicator
- 3 Left Joystick(Up/Down,Turn Left/Right)
- 4 Turn Left/Right Trimmer
- (5) Headless Mode ON/OFF Switch
- 6 High/Low Speed Switch
- 7 Antenna 8 Camera/Video

- Right Joystick(Forward/Backward/ Left/Right Turn)
- Trimmer
- Power Switch
- 2 Left/Right Side Flight Trimmer
- 3 Position Holding ON/OFF Switch
- Required 4\*AA" Batteries



# ASSEMBLING THE AIRCRAFT

Insert and attach the camera (A) to the bottom (B) of the aircraft. Fasten the screws
using the screwdriver into the screw holes to secure the camera in place.







Insert and attach the landing gears (A) to the bottom (B) of the aircraft. Fasten the screws using the screwdriver into the screw holes to secure the gears in place.







3. Insert and attach the protection frames (A) to the aircraft (B). Fasten the screws using the screwdriver into the screw holes to secure the frames in place.







# BATTERY INSTALLATION AND USAGE GUIDELINES

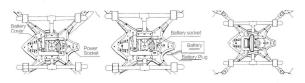
#### 1. Remote Controller

- a. Remove the screw on the battery cover and use the top tab to pull open.
- b. Insert the four (4) AA batteries (not included) into the battery compartment. Match the terminals on the end of the battery with the terminals on the unit. Match "+" to "+" and "-" to "-". If the batteries are not fully inserted, the unit cannot receive battery power.
- c. Replace the battery cover and screw once the batteries are properly installed.



#### 2. Aircraft

- a. Place the aircraft upside down and locate power connector and the battery slot.
- b. Slide the battery into the aircraft as shown.
- c. Connect the battery to the aircraft to turn on.



- You must always charge the LiPo battery in a safe, well-ventilated area away from flammable materials.
- Never charge the LiPo battery unattended at any time. When charging the battery, you
  must always remain in constant observation to monitor the charging process and react
  immediately to any potential problems that may occur.
- After flying/discharging the LiPo battery you must allow it to cool to ambient/room temperature before recharging.

- To charge the LiPo battery you must use only the included USB cable or a suitably compatible LiPo battery charger. Failure to do so may result in a fire causing property damage and/or serious injury.
- If at any time the LiPo battery begins to balloon or swell, discontinue charging or discharging immediately. Quickly and safely disconnect the battery, then place it in a safe, open area away from flammable materials to observe it for at least 15 minutes. Continuing to charge or discharge a battery that has begun to balloon or swell can result in a fire. A battery that has ballooned or swollen even a small amount must be removed from service completely.
- Do not over-discharge the LiPo battery. Discharging the battery too low can cause damage to the battery resulting in reduced power, flight duration or failure of the battery entirely. LiPo cells should not be discharged to below 3.0V each under load.
- . Store the LiPo battery at room temperature and in a dry area for best results.
- When charging, transporting or temporarily storing the LiPo battery the temperature range should be from approximately 40 - 120° F (5 - 49° C). Do not store the battery or aircraft in a hot garage, car or direct sunlight. If stored in a hot garage or car the battery can be damaged or even catch fire.
- Never leave batteries, chargers and power supplies unattended during use.
- Never attempt to charge low voltage, ballooned/swollen, damaged or wet batteries.
- Never allow children under 14 years of age to charge batteries
- Never charge a battery if any of the wire leads have been damaged or shorted.
- Never attempt to disassemble the battery, charger or power supply.
- Never drop batteries, chargers or power supplies.
- · Always inspect the battery, charger and power supply before charging.
- Always ensure correct polarity before connecting batteries, chargers and power supplies.
- Always disconnect the battery after charging.
- Always terminate all processes if the battery, charger or power supply malfunctions.

IMPORTANT NOTE: It's safer and better for the longevity of the battery to store it only partially charged for any length of time. Storing the battery approximately 50% charged (which is around 3.85V per cell) is typically best, however, it will take some careful management of the charge time and the use of a volt meter to achieve this voltage. If you have the equipment and skills to achieve the 50% charge level for storage it is recommended. If not, simply be sure to not store the battery fully charged whenever possible. In fact, as long as the battery will be stored at approximately room temperature and for no more than a few weeks before the next use, it may be best to store the battery in the discharged state after the last flight (as long as the battery was not over-discharged on the last flight).

# CHARGING THE BATTERIES

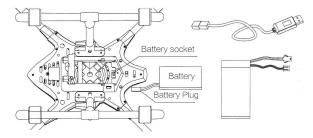
WARNING: Lithium Ion (Lilon) and Lithium Polymer (LiPo) batteries are significantly more volatile than alkaline, NiCd or NiMH batteries. All instructions and warnings must be followed exactly to prevent property damage and/or serious injury as the mishandling of Lilon/LiPo batteries can result in fire. By handling, charging or using the included Lilon/LiPo batteries you assume all risks associated with them. If you do not agree with these conditions please return the complete product in new, unused condition to the place of purchase immediately.

- Remove the battery from the aircraft. Join the red connector on the battery cord to the red connect on the USB charging cable.
- 2. Plug the USB charging cable into a computer. The LED will light up red.
- 3. After approximately 60 minutes the LED red light will turn off. Charging is complete.

#### LED Indicator

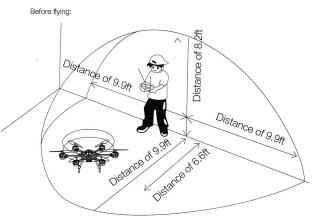
Red light	The battery is charging.
No light	The battery is full charged.

Battery charging should be done under adult supervision only!
Use only the included USB charging cable with this product.
Never leave battery charging unattended or overnight.



After mounting the charged battery in the bracket on the bottom of the aircraft, connect the red socket from the circuit board. Your aircraft is now charged and ready to fly.

### **CONTROLLING AIRCRAFT**



Please practice the following moves shown in the below pictures until you get used to using the remote controller.

- a. Bring the aircraft to an open space, standing aligned with the back of the aircraft.
- b. Practice each exercise of the remote control as shown below, and repeat practice of throttle up/down, sideways left/right, forward/backward, and turn left/right moves.
- c. Flight simulation exercises are very important, please repeat the exercises until you feel comfortable flying your aircraft flawlessly.

# 1. Motor Starting/Stopping

- a. Start by placing the F10 on the ground with the battery level indicators facing you.
- b. Power on the aircraft.
- c. Turn on the remote control.
- d. Push the left joystick up and then down. The aircraft will enter Ready to Fly.
- e. Push the left joystick up slowly to lift the aircraft off the ground.
- f. Be sure you are hovering over a level surface. Press the Start/Stop button. The aircraft will descend steadily.
- g. Return joysticks to middle position after the motors have stopped.



# EMERGENCY STOP

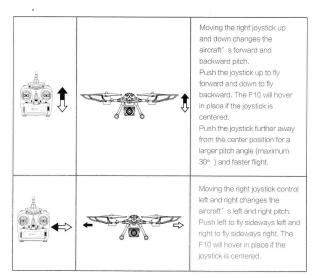
Press Start/Stop button, then lower the left joystick to the lower left corner and the right joystick to the lower right corner. Hold this position until the motors cut out. The F10 will fall from whatever height it is currently at.

Warning: Only do Emergency Stop in the event of a genuine emergency.

# 2. Basic Flying Controls

Joystick Neutral/Mid-Point: Control joysticks are in the center position. Moving the Control Joystick: The control joystick is pushed away from the center position.

Remote Controller	Aircraft	Remarks
<b>†</b>	<b>†</b>	Moving the left joystick up and down changes the aircraft's elevation.  Push the joystick up to ascend and down to descend.  When booth joysticks are centered, the F10 will hover in place.  The more the joystick is pushed away from the center position, the faster the F10 will change elevation. Always push the joystick gently to prevent sudden and unexpected elevation changes.
		Moving the left joystick to the left or right controls the rudder and rotation of the aircraft.  Push the joystick left to rotate the aircraft counter-clockwise, push the joystick right to rotate the aircraft clockwise. If the joystick is center, the F10 will maintain its current orientation.  The more the joystick is pushed away from the center position, the faster the F10 will rotate.



### 3. Tumbling Controls

Remote Controller	Aircraft	Remarks
		Press the Tumbling key on the left top, then move the right joystick up and down to make tumbling forward and tumbling backward.
		Press the Tumbling key on the left top, then move the right joystick left or right to make tumbling left and tumbling right.

# 4. Fine Tuning

To quickly fine tune and calibrate the aircraft, place it on a flat surface.

Lower the left joystick to the lower right corner and the right joystick to the lower left corner. Hold this position until the aircraft finishes flash continuously. The aircraft is now fine-tuned.



Slowly raise the joystick and just as the aircraft lift-off the ground, you can use the trim to correct the action if the aircraft leans in a different direction.

Remote Controller	Aircraft	Remarks
		Just before the aircraft lifts- off, the nose lean left/right: • When leaning right, adjust the trim to left side. • When leaning left, adjust the trim to right side.
<b>1</b>		Just before the aircraft lifts- off, the nose lean fonward/backward:  • When leaning forward, adjust the trim to down.  • When leaning backward, adjust the trim up.
		Just before the aircraft lifts- off, the body lean left/right: • When leaning right, adjust the trim to left side. • When leaning left, adjust the trim to right side.

### CONTROLLING AIRCRAFT

#### 5. Headless Mode

Switch the Headless Mode ON and you will hear the controller begin to beep, indicating it has entered Headless Mode. No matter what direction the aircraft faces, it will respond according to the direction pushed on the remote. (Forward on the remote will make the aircraft fly forward.) This makes flying simpler and more convenient for beginner pilots. To exit Headless Mode, switch the button off and you return to Normal Mode.

# SHOOTING PICTURES AND VIDEO OPTIONAL

- Insert the SD card into the back of the camera.
- 2. Press the Camera/Video key on the remote controller. F10 will beep once, indicating it is taking a picture. Press and hold the Camera/Video key for about 3 seconds, then release it. F10 will beep twice, meaning the camera is filming video. To stop recording. Press and hold the Camera/Video key for about 3 seconds, then release it. F10 will beep twice again, indicating the recording is finished.



# PHONE HOLDER ASSEMBLY INSTRUCTIONS

- 1. Attach Phone Holder Accessory (Figure 1) Slot A & B Onto The Radio Controller (Figure 2) Slot D & C Shown On The Diagram.
- 2. Take Screws Part-PB2.3, Tighten Into Slot E, See (Figure 3) On Diagram.
- 3. Extend the phone holder open and insert phone. Warning: Ensure snug tight fit around phone before releasing.









Figure 2

gure 3

Figure 4

# APP DOWNLOAD INSTRUCTIONS

# Apple iOS (Supports All Models)

- 1. Logon Apple App Store, search App name "WIFI Camera FPV".
- Press "+GET" followed by "Install" to start the download process to your device.
- 3. Locate App on your device and open.

#### Alternative Methods

 Connect mobile phone via USB data cable to computer, find app in store and download to phone.

# https://itunes.apple.com/us/app/wifi-camera-fpv/id1139732788

Scan QR code in user manual below (QR Code App may be required).



APPLE VERSION WIFI APP

# Android (Supports All Models)

- 1. Logon Google Play Store, search App name "WIFI-CAMERA-HD".
- 2. Press "INSTALL" to start the download process to your device.
- 3. Locate App on your device and open.

# Alternative Methods

 Connect mobile phone via USB data cable to computer, find app in Google Play and download to phone.

#### https://play.google.com/store/apps/details?id=com.joyhonest.hj\_camera\_wifi

• Scan QR code in user manual below (QR Code App may be required).



ANDROID VERSION WIFI APP

### CONTROLLING AIRCRAFT

#### 5. Headless Mode

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# Alternative Methods

 Connect mobile phone via USB data cable to computer, find app in Google Play and download to phone.

### $https://play.google.com/store/apps/details?id=com.joyhonest.hj\_camera\_wifi$

• Scan QR code in user manual below (QR Code App may be required).



ANDROID VERSION WIFI APP

# APP OPERATION GUIDE

#### 1.WIFI Connection

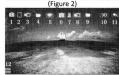
Turn on the quadcopter and put it on a flat surface, the camera LED light will turn red. 15 seconds later the light will flash blue indicating camera is sending WIFI signal. Go to smartphone Settings menu to turn on the WIFI, searching for signal "FPV-WIFI-\*\*\* " to choose and connect. When connection is successful, the RED light will off, and green LED light will be on.

# 2.Instructions:

- Open the App "WIFI Camera", choose 720P, it will go to control interface.
- 3. Smartphone App Control Instructions Use Smartphone to take photo/video and playback:
- 1 Take photo, automatically saves to phone. You can retrieve your photos by pressing icon 4.
- 2 Display.
- 3 Take Video.
- 4 Photo & Video Folder.
- 5 WIFI Signal.
  - " Use MicroSD Card to take photo/video and playback"
- 6 Take photos using TF card, when finished screen will display the images, continue by saving.
- 7 TF card inserted, TF card not inserted.
  8 Take Video.
- 9 TF photo & Video Folder.
- 10 2D/3D Image transfer, only real-time transmission has this function.
- 11 Return.
- 12 Icon instruction Manual.







(Figure 3)

# SPECIFICATION

Dimension	26in x 22in x 6.1in (L x W x H)	
Fuselage Weight	1.12 lbs	
Flight Area	656ft - 1640ft	
Charging Time	240mins	
Flying Time	Up to 13 minutes	
Aircraft's Battery	7.4V 1200mAh Lithium Polymer Battery (Included)	
Remote Controller's Battery	4* "AA" (Alkaline Battery) (Not Included)	

# BREAKDOWN AND DIAGRAM



# TROUBLESHOOTING

Issue	Possible Case	Solution
The F10 will not initialize	The F10 was moved during initialization.	Turn the F10 off then back on again, and ensure it does not move during the initialization process.
Flight battery will not charge	Poor connection between the USB cable and the flight battery.	Check your connections on both the USB cable and the flight battery.
F10 motors will not start	F10 is in No Fly Zone.	Move at least 4 miles away from no fly zone. Most major airports are no fly zone areas.
	F10 is above 8,000 feet above MSL.	Move the F10 below 8,000 feet above MSL.
	Incorrect motor startup procedure.	Review Motor Starting/Stopping procedure in manual.
	F10 is too close to a metal object or metal surface.	Move the F10 away from large metal objects or surfaces.
F10 beeps constantly and motors won't start	EMERGENCY Mode. Possibly due to obstructed propeller during motor start up.	Check that nothing is obstructing any propeller/motor, turn the F10 off then back on again.
F10 will not hold position in hover	Weak wireless signal.	Confirm that the flying area has 100 degrees of clear view of the sky.

# CONTACT CONTIXO:

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F10 DRONE



INSTRUCTION MANUAL

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