

CONTIXO[®]

14+
for age



F21 DRONE INSTRUCTION MANUAL

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IMPORTANT:

Thank you for purchasing the Contixo F21 drone. Please read all instructions and warnings carefully before operating, and keep this instruction manual for future reference and maintenance.

Never fly in or near controlled airspace and do not exceed a height of 20ft. To ensure you're operating within the law and following FAA regulations within the United States. Do not fly along airline routes, and do not fly in areas with strong radio, electromagnetic or electrostatic emissions. Do not operate the drone in any way that is prohibited by related authorities of our country. NEVER use for any illegal purpose or use beyond the scope of which your local laws and regulations have stipulated.

The F21 drone should only be operated by individuals age 14 and up, and is best supervised by experienced UAV pilots. This is a precisely-made device from its electronics, mechanical components, and high-frequency transmission technology, according to its aerodynamic design. Using this device requires proper calibration and potential assembly or debugging to avoid complications or accidents. The user should always operate and control this product in a safe manner. Inappropriate use can lead to serious injury, cause property damage, or can lead to the drone being lost during operation.

In the event that the product is faulty. Please reach out to our technical support team. All of our products have a 1-year limited warranty: <https://contixo.com/pages/warranty>. Likewise, should the product malfunction, or become damaged and need maintenance, reach out to our customer service team at: Support@contixo.com.

SAFETY PRECAUTIONS:

This remote-control aircraft can be dangerous when in use. Please make sure you keep a safe distance from people, animals, and hazardous objects, and do not fly in controlled airspace. Incorrect installation, poor weather conditions, or users unfamiliar with operation may cause damage to the aircraft, or other property or may cause injury. Pay close attention when in use and recognize unsafe or accident-prone conditions to avoid any accidents due to negligence.

1. **Keep it far away from any structures or crowds:** This remote-control aircraft may vary slightly in speed or sensitivity while flying and can cause potential danger. Therefore, please keep it far away from crowds, buildings, trees, structures, high-voltage wires, etc... Please also avoid flying in adverse weather conditions such as rain, snow, electrical storms, and high winds to ensure safety of the user, any spectators, and surrounding property.

2. **Keep it away from any moist environments:** The inside of the aircraft is composed of many precise electronic and mechanical parts. Therefore, please try to avoid any moisture or water content from entering the main body of the aircraft as it may cause a breakdown of the mechanical and electronic parts and thus cause an accident.

3. **Only operate with included parts for intended use:** Please use the original parts made by Contixo for any re-equipping or maintenance to ensure flying safety. Please operate and use only under the scope of the product functions permitted. Using unapproved parts will void the warranty.

4. **Novice users should seek assistance:** New users may face obstacles while learning to operate this aircraft, in this case, please try to avoid operating the aircraft alone. When available, operate this aircraft under the guidance of a more experienced user.

5. **DO NOT operate under the influence of drugs or alcohol:** Please operate this remote-control aircraft in accordance with state law and within your abilities. Do not operate in a state of fatigue, or a bad mental state. Incorrect operation may increase the probability of accidents.

6. **Please keep a safe range from aircraft when using top speed:** When the operator is flying at high speed, please keep the aircraft far away from the pilot and any surrounding people or objects so as not to cause damage or endanger others.

7. **Store it in a cool, dry place:** The remote-control aircraft is composed of various materials including: metal, fiber, plastic, electronics, etc. Therefore, please keep it away from sources of heat and avoid prolonged exposure to direct sunlight. Excessive heat exposure can cause distortion and damage.

- 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.
- Please note that changes or modifications not expressly approved by the party responsible for compliance could void the users authority to operate the equipment.

WARNING

1. There is important information contained in this package and instruction manual, please keep it for future reference.
2. You have the responsibility to make sure that this model of aircraft won't cause injury to yourself, or others, and won't cause any property damage.
3. Please operate strictly as shown in the instruction manual when debugging or assembling this aircraft. During the process of flying or landing, please maintain a distance of 1-2 meters between the user and the aircraft to avoid collisions to the head, face, or body, which may cause injury.
4. Our company and distributors won't be responsible for any incorrect operation, which may cause loss, damage or bodily injury.

5. Children ages 14 and up should use this product under the guidance of an adult. This product is NOT to be used by children under 14 years old.
6. Please correctly assemble and use this product as shown in the instruction manual or packaging instructions. Some parts should be assembled by an adult.
7. Small parts are included with this product. Please place it beyond the reach of the children to avoid a CHOKING HAZARD or parts being mistakenly swallowed.
8. Stay clear of roads or high-traffic areas flying in these areas is extremely hazardous and may be illegal.
9. Please promptly dispose of the packing materials, so as not to cause injury to children.
10. Please DO NOT disassemble or modify the aircraft as it may cause a breakdown of the aircraft during flight.
11. Batteries in the battery compartment of the charger should be inserted into the designated power source which has the same logo as the product.
12. Only use charging cables provided by the manufacturer.
13. When charging the battery, please ensure an adult is present. Keep the battery far away from any combustible objects or materials while charging.
14. DO NOT short-circuit or squeeze the battery to avoid damaging the component, and to avoid potential explosion.
15. DO NOT mix or replace the Li-ion battery with a different type of battery.
16. Intelligent lithium battery is loaded in the drone.
17. Please DO NOT cause the battery to short-circuit or decompose, keep the battery far away from fire and sources of excessive heat.

18. The aircraft should be kept far away from any other electrical equipment that may cause interference.
19. Please keep a safe distance from the high-speed rotating rotor to avoid injury of being wounded or being cut.
20. Components may get hot during use. Please DO NOT touch motors to avoid being burned or injured.
21. 5V wall charger recommended for charging. DO NOT use any charger stronger than 5V.
22. Keep your UAS within sight.
23. Never fly over groups of people.
24. Never fly over stadiums or sports events.
25. Understand airspace restrictions and requirements.



WARNING: Product should only be used by adults and children 14 years and older. Adult supervision required for children ages 14 years of age.

WARNING: CHARGING OF THE AIRCRAFT BATTERY MUST BE SUPERVISED AT ALL TIMES BY AN ADULT. UNPLUG THE BATTERY WHEN FULLY CHARGED. DO NOT OVER-CHARGE THE BATTERY.

EXEMPTION

When using this product, Contixo Inc. shall not be responsible for direct or indirect damages caused by the following:

1. Any damages caused by the user experiencing: fatigue, nausea, poor physical / mental health conditions, or under the influence of alcohol, or drugs.
2. Personal injury, property loss and legal liability caused by the user's subjective intention or wrong judgment.
3. Damage caused by users flying in flight areas prohibited by law and regulations, such as nature reserves.
4. Other damage caused by poor operation or modification of equipment. Training or replacement of accessories or parts not produced by Contixo Inc.
5. The quadrotor sends a low-pressure alarm and it still does not land, resulting in the Quadrotor falling down.
6. Damage caused by forced flight knowing that the quadrotor is in an abnormal state, knowing the assembly is not completed, or knowing the components have obvious faults, defects, or missing parts.
7. Flying in an area with radio, electrostatic, or magnetic interference, such as near: high-voltage power lines, large power equipment, radio and television transmission towers, mobile phone base stations, etc. Avoid areas restricting flight specified by the government. Ensure the user's vision is not impaired, or blocked by obstacles. Users with impaired vision should wear any prescribed eyewear. Avoid any conditions unsuitable for controlling the device.
8. Flight in bad weather conditions, such as rain, winds above force 4, snow, hail or other bad weather.
9. The quadrotor encounters a collision, overturns, combusts, gets struck by lightning, and is damaged in a storm, tornado, rainstorm, flood, tsunami, ground subsidence, ice subsidence, cliff collapse, avalanche, hail, debris flow, landslide, earthquake, or natural disaster, etc.

10. Damage caused by infringement of any data, audio or video data obtained from the user using the quadrotor.

11. Damage to the battery, such as damage caused by improper matching of the protection circuit, battery pack and charger.

12. Any indirect losses or legal liabilities caused by problems of equipment or accessories (including memory cards), for example, images or videos that cannot be saved.

13. Losses or legal liabilities caused by reckless or unsafe flight without completing sufficient flight training.

14. The user promises to use the product only for legitimate purposes and agrees to abide by these terms and any relevant policies or guidelines that may be formulated by Contixo Inc. Some details of this document may change with the upgrade of the product software version and its terms of use. Please read the upgrade details carefully before upgrading the software version. The instruction manual will be updated with or without prior notice.

FLIGHT SAFETY

Please choose an empty room or outdoor environment with no rain or snow, wind less than level 2. Recommended to fly below 16 feet (5m). Please stay away from people, trees, power lines, tall buildings, airports and signal towers.

⚠ Note: The flight time is about 15 minutes, the flight distance is up to 150 meters (500 feet), and the charging time is about 60-90 minutes.



Fly in Open
Areas

+



+



Recommended
to fly below
16 feet (5m)

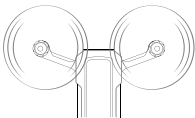


Avoid flying over or near obstacles, crowds, high-voltage power lines, trees, airports, or bodies of water.

DO NOT fly near strong electromagnetic sources such as power lines and base stations as it may affect the onboard compass.



DO NOT use the drone in adverse weather conditions such as rain, snow, fog and wind.



No Fly Zone

Stay away from the rotating propeller blades and motors.

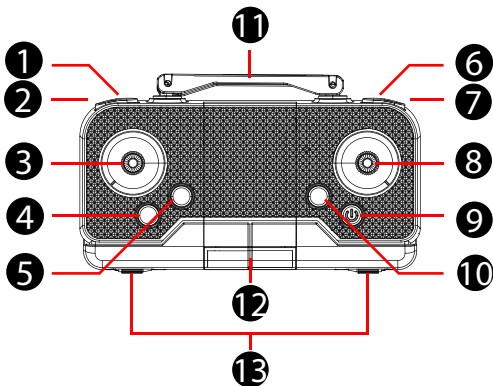
PACKING DETAILS

- 1 x Drone
- 1 x Remote Control
- 1 x Battery
- 4 x Propeller Blades
- 4 x Propeller Guards
- 1 x Instruction Manual
- 1 x Warranty Card
- 1 x USB Cable
- 1 x Screwdriver



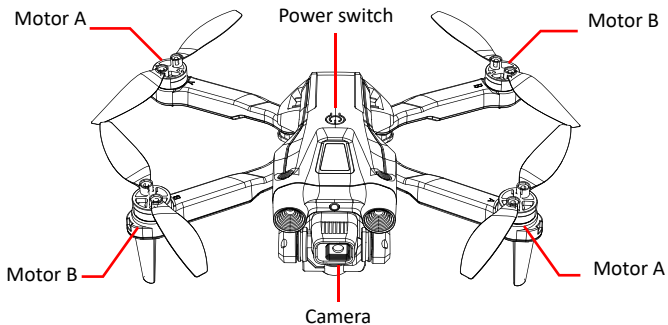
It's important to understand basic flight guidelines, for the safety of both you and those around you. Don't forget to read the Safety Guidelines before flight.

REMOTE CONTROL FUNCTIONS



1. Take picture (Quick press)
Take video (Hold for 3 seconds)
2. Speed switch (Quick press)
Obstacle avoidance (Hold for 3 seconds)
3. Throttle stick (ascend / descend/ turn left / turn right)
4. One-key take off / Landing (Quick press)
Emergency stop (Hold for 3 seconds)
5. 3D roll (Quick press)
Calibrate Gyroscope (Hold for 3 seconds)
6. Adjust the camera upwards
7. Adjust the camera downward
8. Direction stick (forward / backward / left and right side flying)
9. Power switch
10. Headless mode (Quick press)
One-key return (Hold for 3 seconds)
11. Antennae
12. Mobile Phone Holder
13. Rocker

DRONE DIAGRAM

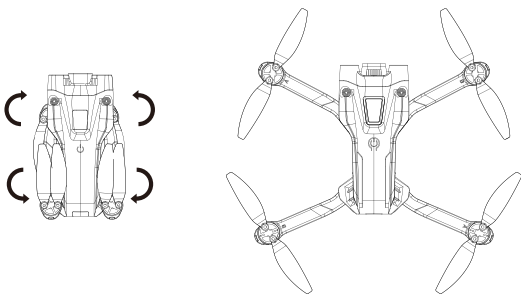


PRE-FLIGHT PREPARATION

1. Opening Steps

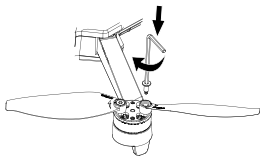
- Open the front arm (close to camera).
- Open the back arm.

⚠ Note: Fold the back arm first before proceeding to the front arm when folding.



2. Install the Propellers

Align the blades with the motor shaft and install them (the arm identification must be consistent with the blade identification). Tighten the screw clockwise.

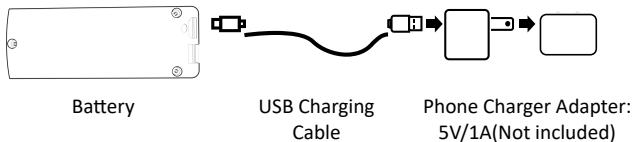


3. Intelligent Flight Battery

1. To power ON, hold the power button for 3 seconds. To power OFF, hold the power button for 3 seconds.
2. When the battery is at low power, the power indicator will start flashing. At this time, return the drone immediately and charge the battery to avoid unnecessary power failures.

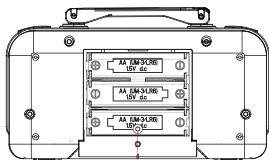
4. Charge the Battery

1. Remove the lithium battery from the bottom of the drone.
2. Connect USB charging cable with the charging interface of the lithium battery. A red LED light turns on when charging and turns off when it is fully charged. Charging time is about 60-90 minutes. Flight time is about 15 minutes depending on how the drone is being used.



5. Remote Control Battery Installation

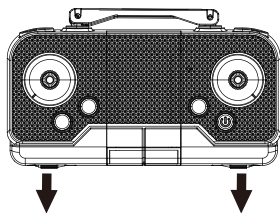
1. Remove the battery cover from the back of controller.
2. Install 3 x AA batteries into the controller, make sure to install batteries to their correct polarity. Do not mix old and new batteries or battery types.
3. Replace the battery cover.



3 x AA Batteries (Not Included)

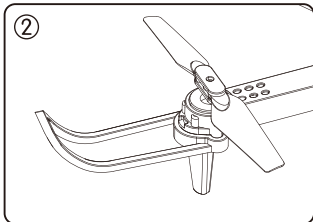
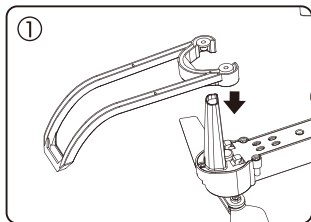
6. Install the Rocker

The remote control in the storage state is not installed with the rocker. Take out the rocker from the bottom of the remote control and install it to the remote control.



7. Assembling protective guard

Align the protective frame with the arm and install it (Figure 1), press it until it is in place, and then press the position (Figure 2) up to fasten the protective frame.



INSTALL THE CONTIXO F21 APP

Search “Contixo F21” application in APP Store.

Search “Contixo F21” application in Google Play Store.

Required Operating Systems: IOS 8.0 or higher / Android 5.0 or higher.



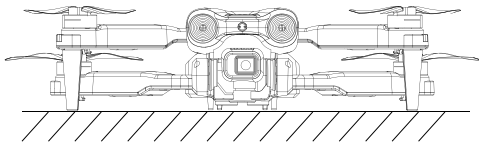
Contixo F21



FLIGHT

Step 1: Turn on the drone and put down on a level surface

Turn on the drone and the lights of the drone will start blinking. Place the drone on a level surface.




Step 2: Turn On the Remote Control & Pair with Drone

Press and hold the power button of the remote control to power on the remote control. When the light of the drone and remote control stop blinking and changes to a steady light, pairing is successful.

NOTE: You can connect to the drone WiFi signal at this time to view the current drone on the Contixo F21 app.

Step 3: Connect App

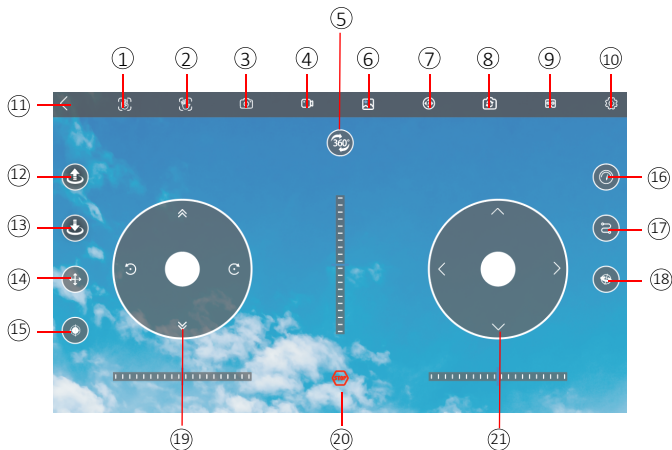
✓ Contixo - F21 - XXXX 

- Connect your smartphone to the WiFi of the drone and check the drone's status on the "Contixo F21" app.
- Open the "Contixo F21" application on your smartphone to access the control interface.

Click "Start".



APP Introduction




1. Gesture Photo
2. Gesture Video
3. Take Photo
4. Take Video
5. 3D Roll
6. Gallery
7. APP Control On/Off
8. Switch Camera
9. VR Mode
10. Setting


11. Exit
12. One Key Take Off
13. One Key Landing
14. Headless Mode
15. Calibrate Gyroscope
16. Switch Speed
17. Flight Pate
18. Gravity Control Mode
19. APP Control Mode - Left Joystick
20. Emergency Stop
21. APP Control Mode - Right Joystick

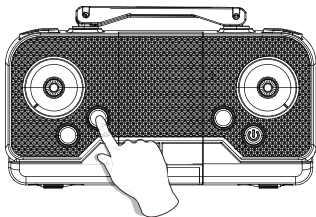
Note: If you want to turn on the app control mode, you need to turn off the remote control first.

Step 5: Reset to Factory Setting/Calibrate Gyroscope



- Push the joysticks into the 7 o'clock (left joystick) & 5 o'clock (right joystick) position or press and hold “360° / ” icon on the remote control.
- Lights will rapidly blink and change to steady light.

Or click “” on the app when the drone is under APP control.



Take-off/Landing & Emergency Stop

Once the lights are all steady, you are ready to fly!

- Red (rear) and green (front) lights are all solid (no blinking).

Rotating propellers can be dangerous. DO NOT start the motors when there are people nearby.



Take-off

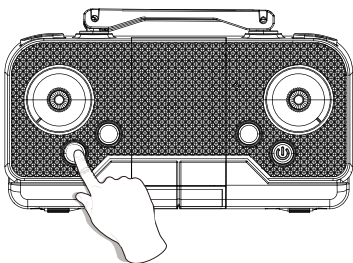
Press the 1-Key Take-off button “ / STOP” or click “” on the app when the drone is under APP control.

Landing

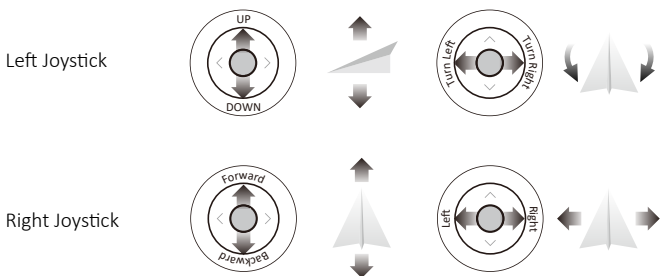
Press the 1-Key Landing button “ / STOP” or click “” on the app when the drone is under APP control.

Emergency Stop

Press and hold the “ / STOP” button or click “” on the app when the drone is under APP control mode to activate emergency stop. Emergency stop can disable the drone, never activate mid-flight unless there is an emergency.



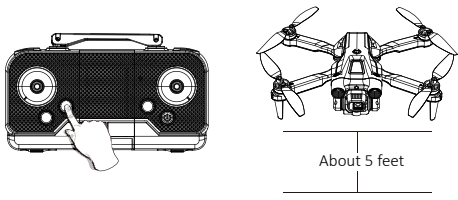
Operating Method



3D Roll



Quick press “ / ” button or click “” on the app when the drone is under APP control mode, then push the right joystick forward, backward, left or right. The drone will roll in the air in the corresponding direction.

Please ensure that the drone is fully charged and maintains a height of about 5 feet from the ground.




Speed Switch & Obstacle Avoidance Mode

Speed Switch

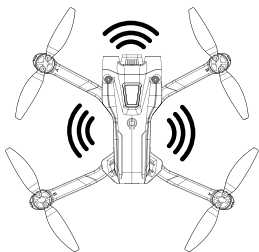
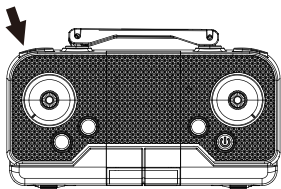
Press the “” button or click “” on the app when the drone is under APP control mode to switch speed. Different speed gears have different beeps : “Di~” is the low speed mode, “Di~Di~” is the medium speed mode, and “Di~Di~Di~” is the high speed mode.

Obstacle Avoidance Mode



Press and hold the “” button to turn on the obstacle avoidance mode, and press again to turn off the obstacle avoidance mode.



Avoids obstacles on three sides and when an obstacle is detected, the drone will retreat to a safe distance.

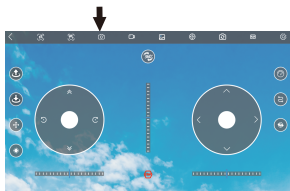
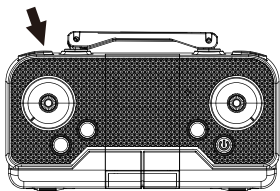
It is recommended to turn on the obstacle avoidance function in an indoor flight environment with a length and width of 6x6 meters (20x20 feet) or more. When the drone turns on the obstacle avoidance mode, the speed will slow down and the fast gear cannot be turned on. The effect of the obstacle avoidance mode may deteriorate or even be lost outdoors due to sunlight. Therefore, it is recommended to fly indoors when the obstacle avoidance mode is turned on.



Camera Functions

Quick press the “/” button or click “” on the app to take photo.




Press and hold the “/” button for 3 seconds or click “” on the app to take video.

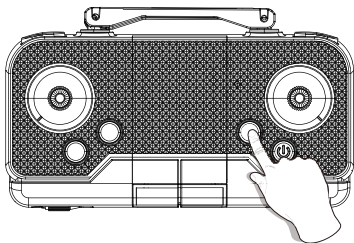


Photos and videos will be saved in the phone. **DO NOT** take photos while recording video.

Headless Mode & One Key Return

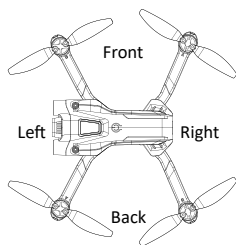
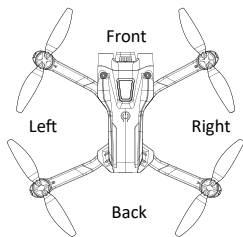
Headless Mode

1. The drone defaults to Normal Mode when the drone and remote control are matched successfully. Click “/” button to enter into Headless mode. Click “/” button again to exit Headless mode. Or click “” on the app when the drone is under APP control mode.




2. **Normal Mode:** Before takeoff, the camera on the drone indicate the forward-facing direction.

3. **Headless Mode:** Before takeoff, the camera on the drone indicate the forward-facing direction. When the drone rotates in flight, the flight direction is not changed.




As shown in the above figure, when the drone rotates in flight, the flight direction is not changed in the headless mode state.


One Key Return

During the flight, the drone can be recalled using the return function. Press and hold the “” button for 3 seconds to start the return. After starting the return flight, the drone will return at the direction of the tail when it is powered on and paired.

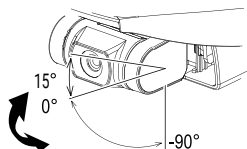
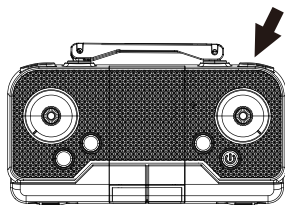
During the process, move the direction joystick or hold the return button for 3 seconds to cancel the return.

Adjust the Camera Angle

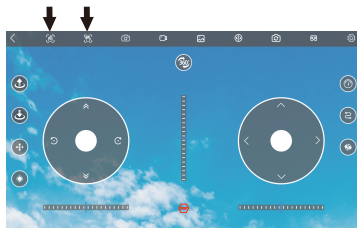
Quick press the “” button to adjust the camera upwards.

Quick press the “” button to adjust the camera downwards.

The angle rotation range is from -90 to 15 degrees.




Gesture Selfie Mode




Take Photo




Take Video

Click “” button on the App. Hold up 2 fingers to take a picture.

Click “” button on the App. Wave your hand to begin recording video. There is a 3 seconds countdown before taking a video or picture.


NOTE: This function can only be used when there is adequate light. Lowlight or dimly lit areas may prevent the camera from detecting your hand gestures.

Flight Path

Click “” on the App. Find the transparent box on the screen. Mark the path you plan to fly within the transparent box range. (This mode can only be used in APP controlled mode.)



Gravity Control Mode

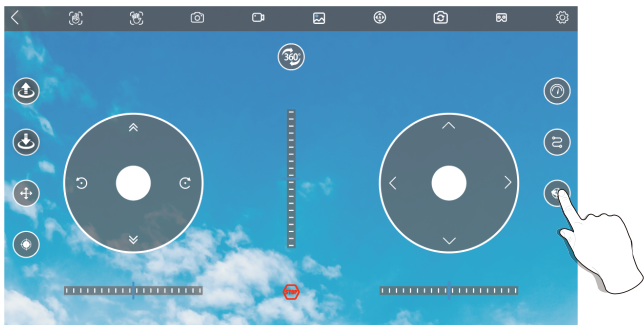
Click “” to enter gravity control mode. (This mode can only be used in APP controlled mode.) You can control the flying direction of the drone according to the tilt angle of the phone.

Tilt the phone forward, the drone flies forward.


Tilt the phone backwards, the drone flies backwards.

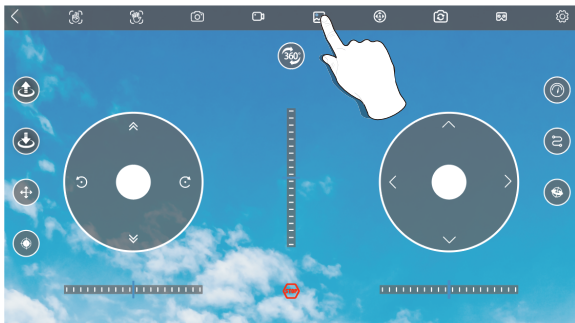
Tilt the phone to the left and the drone flies to the left.

Tilt the phone to the right and the drone flies to the right.



Gallery

Click the “” button to access your pictures and video files.



SPECIFICATIONS

Model: F21

Flight Weight: 151g / 5.3 oz

Battery Type: Lipo Lithium-Ion Battery

Flight Time: About 15 minutes

Max Charging Time: About 90 minutes

Capacity: 1300 mAh

Voltage: 3.7V

Recommend Control Height: 5M (16 feet)

Max RC Control Range: 100M (300 feet) (Unobstructed)

WIFI Camera Range: 35M (1100 feet) (Unobstructed, depending on conditions and your mobile device)

Wind resistance level: Level 1 (Flight use during windy conditions is NOT recommended)

Auto-Hovering: Enabled

Remote Control Operating Frequency: 2.4 GHz

Remote Control Battery: 3*AA

Remote Control Operating Voltage: 3.7V

Camera Lens: FOV 60°

Adjustable Angle of Lens: -90° to 15°

Still Photography Mode: Single shot

Photo Format: JPEG

Video Format: MP4

Operating Temperature Range: 32°to 104°F (0°to 40°C)

Mobile App: "Contixo F21" in App Store & Google Play Store

Live View Working Frequency: 2.4 GHz ISM

CAMERA		STORAGE		RESOLUTION	FRAME PER SECOND
F21	1080P	Phone	Photo	1920X1080P	
			Video	1920X1080P	15 fps

TROUBLE SHOOTING

Problem	Cause	Solution
Drone does not respond to user controls.	<ol style="list-style-type: none">1. Remote is not synced to the drone.2. Insufficient battery power.	<ol style="list-style-type: none">1. Refer to page 13-14 (Flight).2. Recharge the battery.
The blades spin, but the drone cannot take off.	<ol style="list-style-type: none">1. Insufficient battery power.2. The blades distorted.3. The blades Side A and Side B are reversed.	<ol style="list-style-type: none">1. Recharge the battery.2. Replace the blades.
The drone shakes heavily.	The blades distorted.	Replace the blades.
Drone does not stabilize during flight with fine tuning.	<ol style="list-style-type: none">1. The blades distorted.2. Defective motor.	<ol style="list-style-type: none">1. Replace the blades.2. Replace the motor.
Drone cannot takeoff after accident.	Four-axis acceleration sensor loses balance.	Recalibrate compass.

Technical Support

Have questions?

E-mail: support@contixo.com

Mon-Fri 9:00 am- 4:00 pm PST



CONTACT INFORMATION

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