CONTIXO®

14+ for age

# — F19 DRONE INSTRUCTION MANUAL —

## PREFACE:

**Thank you for Purchasing the Contixo F19 RC Drone**

The Contixo F19 Drone is a mini quadcopter that's purposely built for drone application developers to enable you to get your custom applications airborne quickly.

This development platform is intended to be modified by developers according to their professional judgment. Contixo F19 drone will be shipped with pre-configured default settings from the factory, and will have the option to be customized. There are no operational limitations to the kit. Developers are responsible for testing and ensuring the safety of their configuration, and establishing the operating limits of those configurations.

F19 Drone is designed and engineered by Contixo, Inc. in Southern California, USA. Made in China.

## IMPORTANT:

Please read the instructions carefully before allowing children, teenagers, and adults to operate the drone. Adult supervision is advised.

## SAFETY PRECAUTIONS:

**Safety:** F19 drone was designed and manufactured with safety in mind. Your safety also depends on proper training and thoughtful operation. Do not set up, operate, perform maintenance, or repair the drone without first reading and understanding this manual and the labels on the unit.

**Owner Responsibility:** In order to maintain your drone properly and to ensure operator safety, it is the responsibility of the drone owner to read and follow these instructions:

Follow all setup, operation, and maintenance instructions.

Read and follow all safety instructions. Keep them readily available for operators.

Make sure all operators are properly trained, know how to safely operate, and are properly supervised.

Do not operate the drone until you are certain that all parts are in place and operating correctly.

Carefully inspect the drone on a regular basis and perform all maintenance as required.

Service and maintain the drone only with approved replacement parts.

Keep all instructions with the product.

Only use this product if it can be used safely!

NOTE: This equipment has been tested and found to comply with the Federal Code of Regulation 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. If not installed and used in accordance with the instructions, the equipment may cause harmful interference to radio communications.

- However, there is no guarantee that interference will not occur in a particular installation. If your 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:
- Adjust or reposition the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet with 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 user's authority to operate the equipment.

WARNING: THIS PRODUCT SHOULD ONLY BE USED BY ADULTS AND TEENAGERS 14 YEARS AND OLDER. ADULT SUPERVISION REQUIRED FOR CHILDREN UNDER 14 YEARS OF AGE.

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

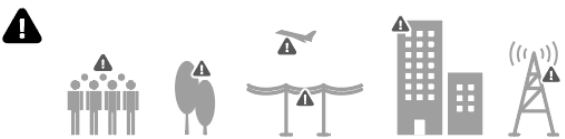

**NO FAA LICENSE NEEDED!**

## Flight Safety

**Recommended for indoor use or flying below 16 feet (5m).**

Fly in Open Areas

Maintain Line of Sight



Avoid flying over or near obstacles, crowds, high voltage power lines, trees, airports or 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 high winds.

Stay away from the rotating propellers and motors.

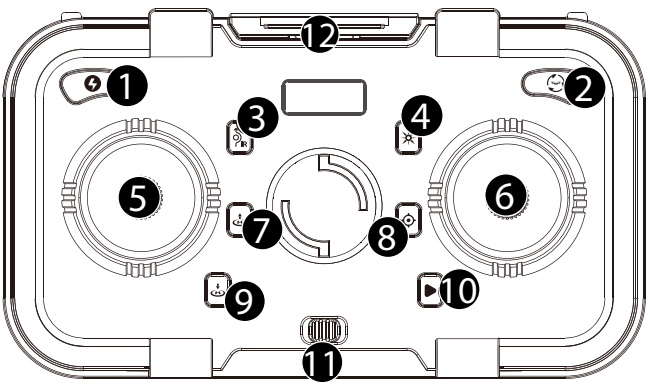
No Fly Zone

## What's in the Box

- 1 Drone
- 1 Remote Control
- 2 Batteries
- 2 Propeller Blades
- 4 Propeller Guards
- 1 Instruction Manual
- 1 Warranty Card
- 1 USB Cable
- 1 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.

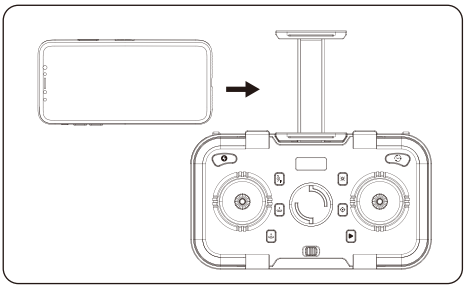
## Remote Control Functions



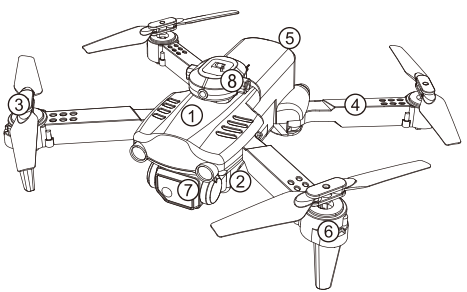

1. Speed
2. One-key Flips & Rolls
3. Obstacle Avoidance
4. Headless Mode
5. Left Joystick
6. Right Joystick
7. One-key Take Off
8. Calibrate Gyroscope
9. One-key Landing
10. Fine-tuning Key
11. Power Switch
12. Mobile Phone Holder

## MOBILE PHONE INSTALLATION

1. Open the mobile phone bracket on the remote control.
2. Install the mobile phone on the mobile phone bracket.



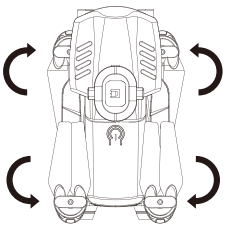
## Drone Diagram

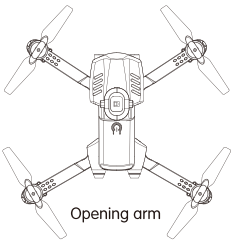



1. Upper Casing
2. Lower Casing
3. Propeller
4. Arm
7. Battery
8. Motor
9. Camera
10. Obstacle Avoidance Head

## Opening Steps

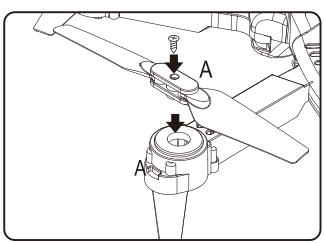
1. Open the front arm (close to camera)
2. Open the back arm
   Fold the back arm first before proceeding to the front arm when folding.

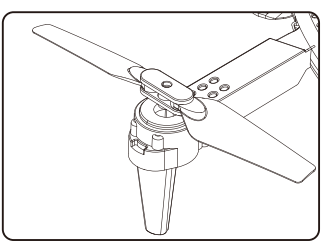





1. Install the Propellers

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

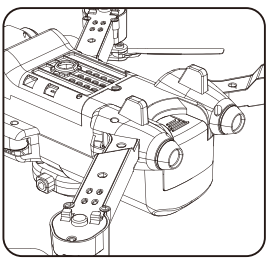


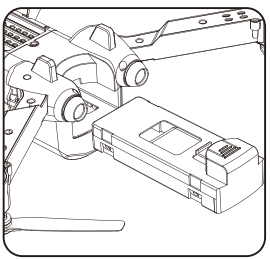



2. Intelligent Flight Battery

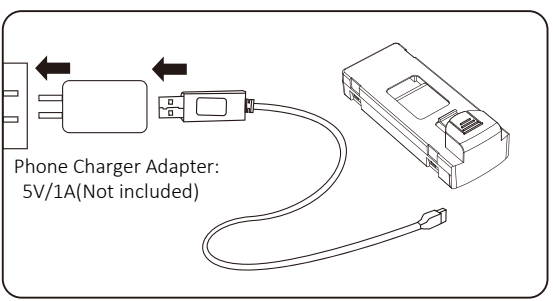
— To power ON, long-press the power button. To power OFF, long-press the power button.
— When the battery is at low power, the power indicator will start flashing. At this time, return the drone immediately and charge the battery to avoid unnecessary power failures.

3. Charge the Battery





A. Remove the lithium battery from the bottom of the drone.

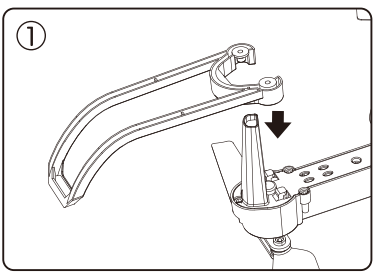


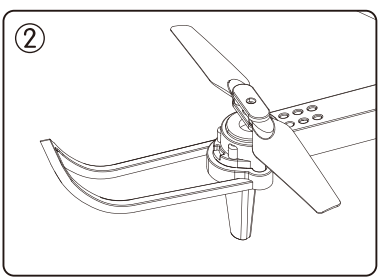

B. Connect USB charging cable with the charging interface of the lithium battery.

4. Lithium Battery Charging Instructions

a. Charging: Insert the USB cable into the USB port of the charger and connect to the charging port of the battery to charge.
A red LED light turns on when charging and turns off when full charged.
b. The drone can be charged by a travel or car charger.
c. The drone battery takes about 60-80 minutes to fully charge. Flight time is about 10 minutes depending on how the drone is being used.

5. 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 WiFi UAV App

Search “WiFi UAV” application in APP Store.

Search “WiFi UAV” application in Google Play Store.

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

Available on the App Store

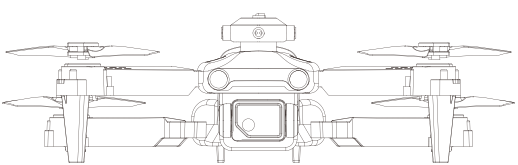
WiFi UAV

ANDROID APP ON Google play

## 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.



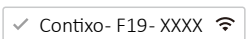
**Step 2: Turn On the Remote Control & Pair with Drone**

Press the power button of the remote control to the right to power on the remote control. Then push the left joystick up then down. 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 WiFi UAV app.

Throttle Joystick

**Step 3: Connect App**

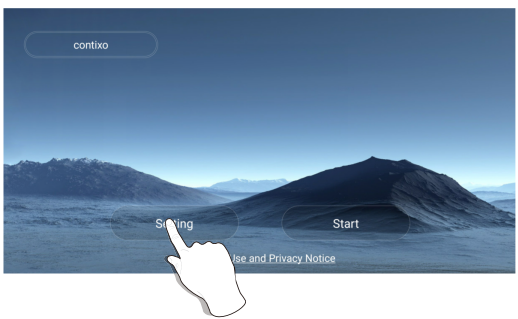


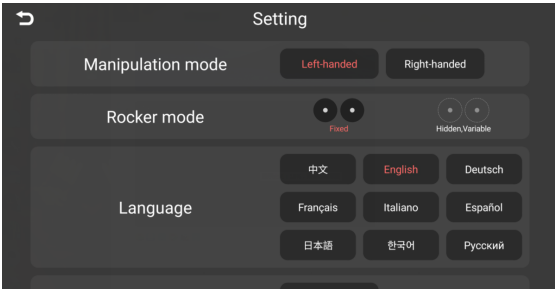

— Connect your smartphone to the WiFi of the drone and check the drone's status on the "WiFi UAV" app.

— Open the "WiFi UAV" application on your smartphone to access the control interface.

**Step 4: Click the setting button to select the control mode**

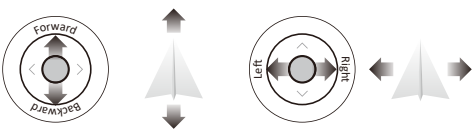
This setting only affects the app control mode.





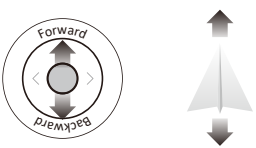

## Left Hand Mode Operating Method

Throttle Joystick

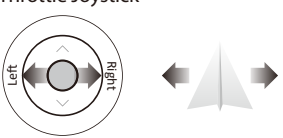




Direction Joystick

## Right Hand Mode Operating Method



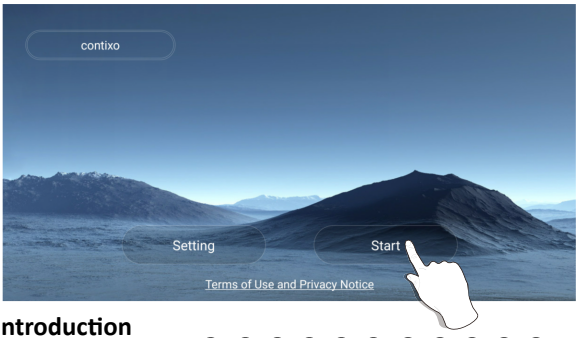

Throttle Joystick



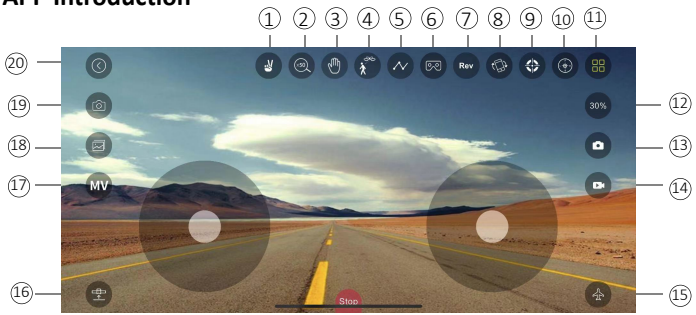


Direction Joystick

Click “ ” then click “Start”.




## APP Introduction




1. Gesture Selfie Mode
2. Zoom in or out
3. Palm Follow
4. Follow Mode
5. Flight Path
6. 3D Mode
7. Flip Screen
8. Gravity Control Mode
9. Calibrate gyroscope
10. Headless Mode
11. Hide/Display Button
12. Switch Speed
13. Take Photo
14. Take Video
15. APP Control On/Off
16. One Key Take off/Landing
17. Entertainment Mode
18. Gallery
19. Switch Camera
20. Exit

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

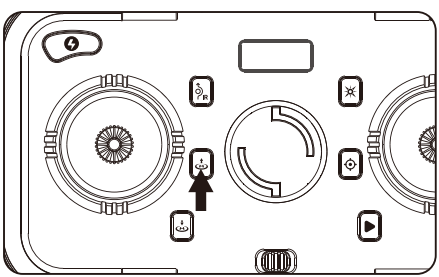
**Step 5: Reset to Factory Setting/Calibrate Gyroscope**

— Push the joysticks into the 7 o'clock (left joystick) & 5 o'clock (right joystick) position or click the " " icon on the remote control.
— Lights will rapidly blink before changing to steady light.

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

## Take-off/Landing

Take-off
Press the 1-Key Take-off button or click " " on the app when the drone is under APP control.



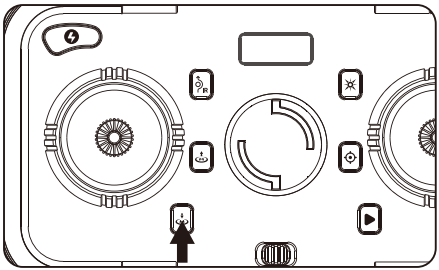
Once the lights are all steady, you are ready to fly!

— White (rear) and blue (front) lights are all solid (no blinking).

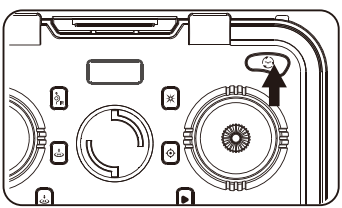
⚠ Rotating propellers can be dangerous. DO NOT start the motors when there are people nearby.

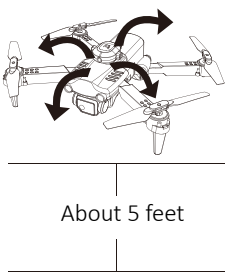
Landing

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



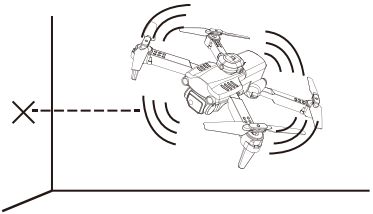
## 3D Roll

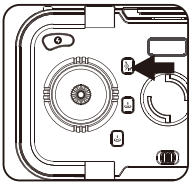





3D Roll: Short press “ ” button and push the direction joystick forward, backward, left or right. The drone will roll in the air in the corresponding direction.

## Obstacle Avoidance Mode

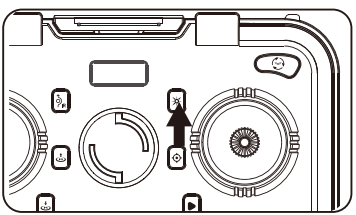




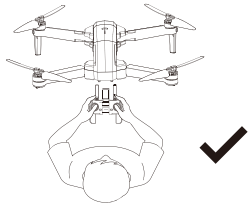
Press the button to turn on the obstacle avoidance mode, and press again to turn off the obstacle avoidance mode.
Avoids obstacles on four sides and when an obstacle is detected, the drone will stop in place, the remote controller will sound an alarm.
It is recommended to turn on the obstacle avoidance 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. Therefore, it is recommended to fly indoors when the obstacle avoidance mode in turned on.

## 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.



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.



The direction of control when the drone is paired.

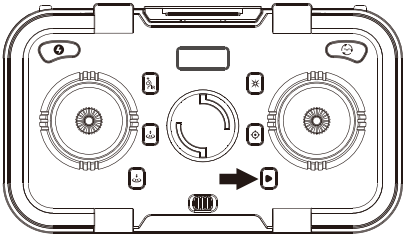
Don’t change your direction.

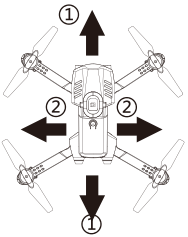
Don’t change your direction.

While in Headless Mode, the forward direction is the direction the pilot faces when the pilot pairs the drone with the remote control. If the pilot pushes the direction joystick forward, the drone will fly forward. If the pilot pushes the direction joystick backward, the drone will fly towards him/her. If the pilot moves the right stick left or right, then the drone will also move left or right, relative to the pilot. It is very important that the pilot does not change positions or the direction he or she is facing because this will cause misdirection of the drone flight control.

## Fine-tuning Function

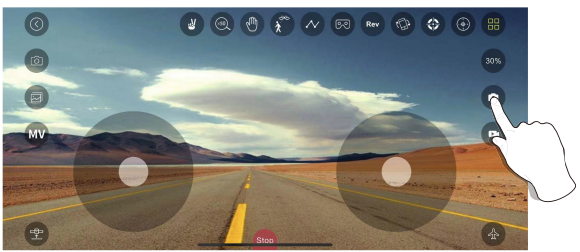
When the drone spins in the air or tilts in different directions, you can use fine-tuning to correct the action. Press the fine-tuning button until you hear a beep sound, then move the joysticks in opposing directions to adjust and calibrate until the drone does not deviate. If there is no operation for 5-6 seconds after entering the fine-tuning, the fine-tuning function will automatically exit.






1. Forward/Backward Fine-tuning
2. Left/Right Side Fly Fine-tuning

## Camera Functions




Tap “ ” on the app to take a picture.

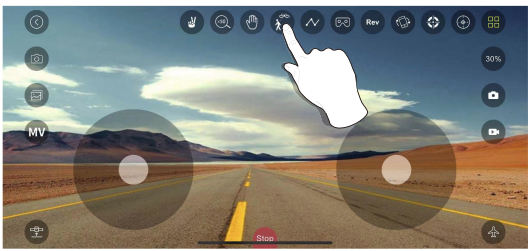
Tap “ ” on the app to take a video.

Tap “ ” on the app again to save video.

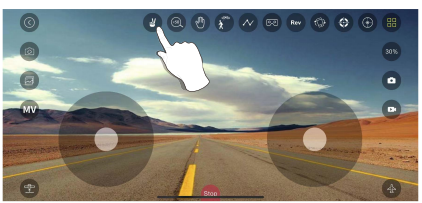
Photos and videos will be saved in the phone. DO NOT take photos while recording video.

**Follow Me Mode**

Click “ ” then the camera will automatically recognize the person or human-shaped object in the lens. Tap on the object or person you want to track, and the drone will automatically follow the object or person you choose.
NOTE: If there are multiple people on the screen, you can choose one of them to track. If there is no target on the screen, the drone will enter “waiting mode”. When there is a tracking target on the screen, the system will automatically enter the tracking mode. (This mode can only be used in APP controlled mode.)




**Gesture Selfie Mode**



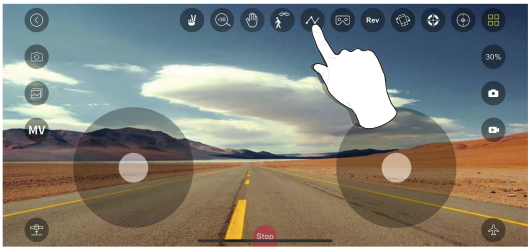

Take Photo

Take Video

Click “ ” (hand with two fingers) on the App. Hold up 2 fingers to take a picture. Wave your hand or hold up 3 fingers to begin recording video. There is a 3 second 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.

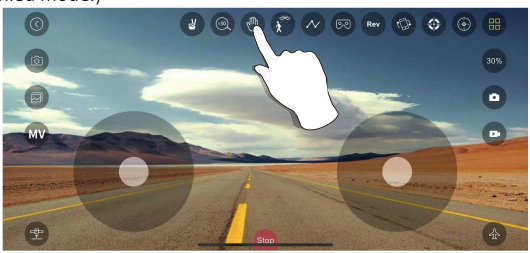
## Flight Path

Successfully connect the drone WiFi with your smartphone,click “ ” on the App. Find the transparent box on the screen. Mark the path you plan to fly within the transparent box range on the map. (This mode can only be used in APP controlled mode.)



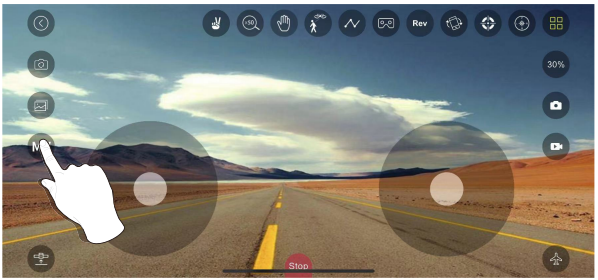

## Palm Follow

Connect the drone WiFi with your smartphone, select the “ ” icon on the App and put your palm in front of the lens. The drone will automatically recognize the position of your palm and follow the movement. (This mode can only be used in APP controlled mode.)



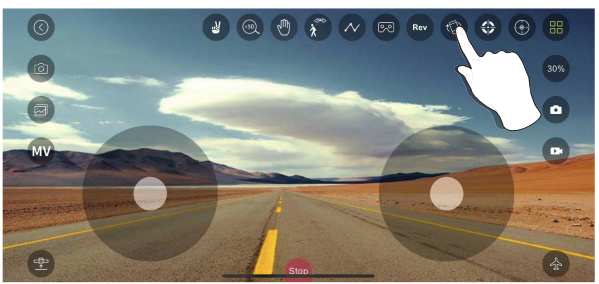
**Entertainment Mode**

Click “ MV ” to enter entertainment mode.
You can choose photo effects and composite short videos.



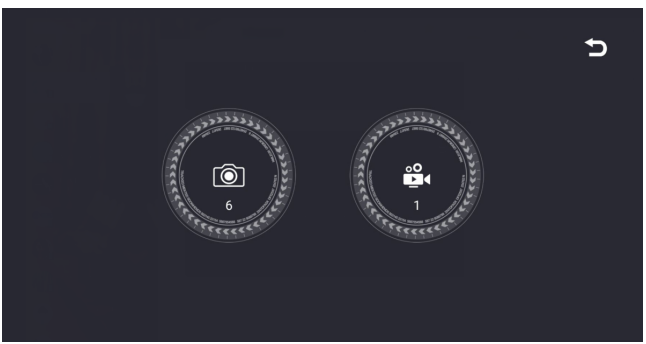

**Gravity Control Mode**

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**

Open the App, click “ ”(gallery) to access your pictures and video files

## Specifications

Drone Model: F19
Drone Weight: 109g/3.8 oz
Battery Type: Lipo Lithium-Ion Battery
Flight Time: About 10 minutes
Max Charging Time: About 80 minutes
Capacity: 1800 mAh
Voltage: 3.7V
Recommend Control Height: 5M (16 feet)
Max RC Control Range: 50M (160 feet) (Unobstructed)
WIFI Camera Range: 25M (80 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 90°
Still Photography Mode: Single shot
Photo Format: JPEG
Video Format: MP4
Operating Temperature Range: 32°to 104°F ( 0°to 40°C)

Mobile App: “WiFi UAV” in App Store & Google Play Store
Live View Working Frequency: 2.4 GHz ISM

| CAMERA | | STORAGE | | RESOLUTION | FRAME PER SECOND |
|---|---|---|---|---|---|
| F19 | 1080P | Phone | Photo | 1920X1080P | |
| | | | Video | 1920X1080P | 15 fps |

## Trouble Shooting

| Problem | Cause | Solution |
|---|---|---|
| Drone does not respond to user controls. | 1. Remote is not synced to the drone.<br>2. Insufficient battery power. | 1. Refer to page 9-10 (Flight).<br>2. Recharge the battery. |
| The blades spin, but the drone cannot take off. | 1. Insufficient battery power.<br>2. The blades distorted.<br>3. The blades Side A and Side B are reversed. | 1. Recharge the battery.<br>2. Replace the blades. |
| The drone shakes heavily. | The blades distorted. | Replace the blades. |
| Drone does not stabilize during flight with fine tuning. | 1. The blades distorted.<br>2. Defective motor. | 1. Replace the blades.<br>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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