



CONTACT INFORMATION

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Instruction Manual

Please read this instruction manual first before operating the drone.

Please keep this manual for future use.

F20 GPS DRONE

www.contixo.com



Battery Warnings and Usage

The battery charger included with the drone has been designed to safely charge the Li-Po battery.

CAUTION: All instructions and warnings must be carefully followed. Mishandling of the Li-Po batteries can result in a fire, personal injury, and/or property damage.

1. By handling, charging, or using the included Li-Po battery you assume all risks associated with the lithium batteries. We cannot be responsible for any misuse.
2. If at any time the battery begins to balloon or swell, please discontinue use immediately. Never charge or discharge a battery that is ballooning or swelling as this can result in a fire.
3. For best results, always store the battery at room temperature and in a dry area.
4. Always transport or temporarily store the battery in a temperature range of 40-120°F. Do not store battery or drone in a car or direct sunlight. If stored in a hot car or temperature, the battery can be damaged or even catch fire.
5. Never use a Ni-CD or Ni—MH charger. Failure to charge the battery with a compatible charger may cause fire (resulting in personal injury and/ or property damage).
6. Never exceed the recommended charge rate.
7. Never cover warning labels with hook and loop strips.

WARNING: We recommend using a 5V (1-2A) adapter for charging. Please do not attempt to charge by computer. Do not use more than a 5V power supply (otherwise, property damage and injury can occur). When a Li-Po battery is discharged below 3.7V, the battery may be damaged and will no longer accept a charge. If the drone battery is low, then please land the drone immediately and recharge the battery.

Safety First

Always follow proper operating procedures and safe-flight guidelines

Please take a careful look at the manual before flights for important information regarding product functions and operation tips. It is important to learn how to use the product to achieve a safe flight. Stay informed of local laws and regulations regarding flying this product and always abide by the law. Keep away from any no-fly zones and always respect the privacy of others. Please do not operate the drone in a highly-populated public area and without prior permission.

Safe flying

Please make sure you are in good mental shape before every flight. Never fly under the influence of drugs or alcohol as this will increase the chance for accidents, injury, or damage. Always keep the remote controller at least 8 inches away from your body when flying the drone. Also, please be mindful of the safety of others when operating the drone.

Keep a safe distance from a flying drone

Never use your hands to touch a flying drone under any circumstances! Don't approach and touch a landed drone before its propellers are completely locked.

Keep away from heat sources

This drone is made of metal, fiber, plastic, electronic components, and other materials. Please keep it away from heat sources to avoid any deformation. This drone will be subject to damage caused by any prolonged sun exposure at high temperatures.

Environmental protection requirements

To protect the environment, please recycle the drone per local laws and regulations if it will no longer be kept for future use. This helps with reducing any unnecessary electronic waste.

Introduction

Thank you for choosing Contixo--a trusted manufacturer of high-quality drones. To make operation of this drone easy and enjoyable, please read carefully through this user manual before operating the drone unit. Please do not throw away this manual as it contains vital information for future adjustments or maintenance reference.

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What's in the Box

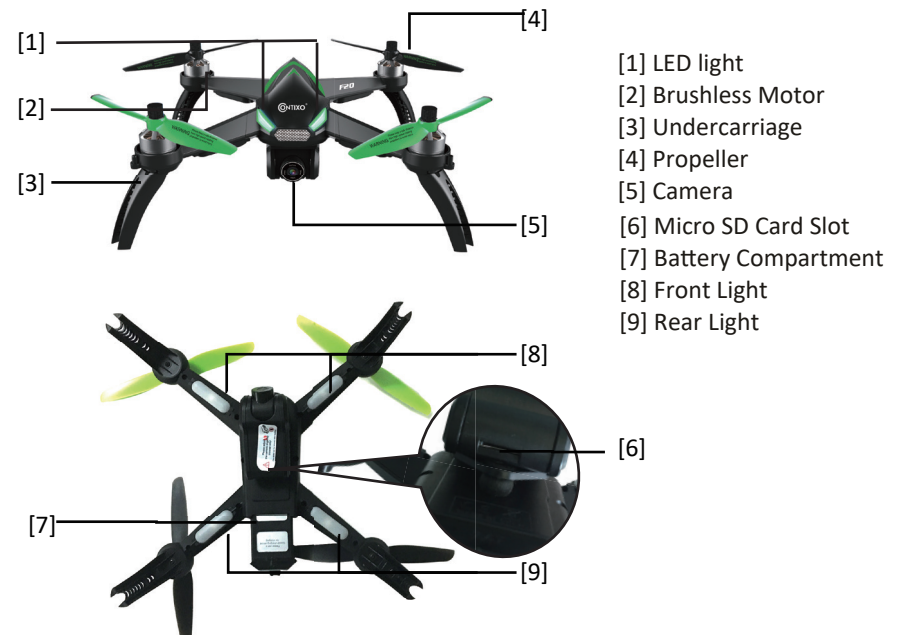
Products/ Spare Parts Included In The Box

- 1 Drone
- 1 Balance Charger
- 1 Charging Converter
- 1 USB Cable
- 1 Drone Battery
- 4 Propeller Blades
- 1 Propeller Changing Tool
- 1 Remote Controller
- 1 Screwdriver
- 1 Smartphone Clip
- 1 Quick Start Guide
- 1 Warranty Card
- 1 Instruction Manual
- 1 Tech Support Card

Technical Parameters of the Drone

- Diagonal: 9.84 inches
- Overall Height: 3.74 inches
- Product Dimensions: 13*9.55*3.74 inches
- Drone Weight (with battery): Approximately 1 Lb.
- Brushless Motors: 1806 KV1500
- Battery: 7.4 V 2100 mAh 25C Li-Polymer
- Charging Time: Approximately 5 Hours
- Maximum Flying Time: Approximately 15-18 Minutes

Drone Diagram



Drone Battery Charging

How to Charge the Drone Battery:

Step 1. Make sure that your power adapter (5V 1-2A) is connected with the power outlet (as indicated in Pic. 1);

Step 2. Connect the balance charger to the power adapter by plugging in the USB cable accordingly (as indicated in Pic.2);

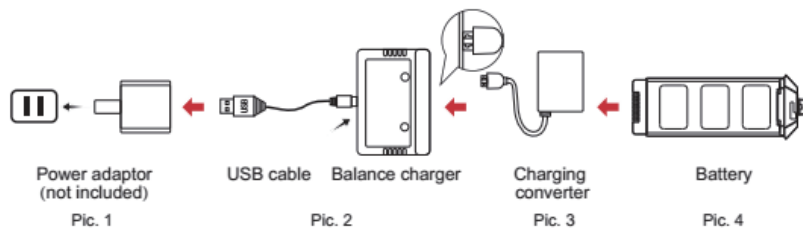
Step 3. Insert the white triplex-wire plug of the charging converter "face up" into the triplex-wire socket of the balance charger (as indicated in Pic. 3);

Step 4. Connect the battery to the charging converter. Charging will then be started. A full charge will take about 5 hours (as indicated in Pic.4)

When charging is in progress, the green light will be flashing slowly and the red light will be solid. When charging is complete, both the green and the red light will be solid.

PLEASE NOTE: If the battery and charging converter is not connected with the balance charger (but the balance charger is connected with the adapter), then the red light will be solid and the green light will be off.

If there is a malfunction, the red light will be solid and the green light will keep flashing rapidly.



ATTENTION:

- Adult supervision is required when charging the batteries.
- Only batteries of the same type as recommended are to be used.
- Exhausted/depleted batteries are to be removed from the drone.
- The supply terminals are not to be short-circuited.
- The charging line to be used with the product should be regularly examined for potential hazards such as damage to the cable, cord, or plug.
- If battery or charger is damaged, please discontinue use immediately and call us at 1-833-CONTIXO (1-833-266-8496) for replacement parts.

Product Assembly

Smartphone Clip

1. You must first remove the "rubber cap" that is located between the antennas and in the middle-top of the remote controller (as indicated on the right).

2. Next, simply slide in the Smartphone Clip into place until you hear a "click" sound indicating the clip is secured (as indicated below).



The smartphone device clip is essential for FPV (First Person Viewing) while flying your device.

PLEASE NOTE - The Wi-Fi connectivity from the drone to your smartphone can be affected by multiple factors. If you experience Wi-Fi connectivity issues, we recommend you reposition your drone before flying or fly your drone in another location.



On the back of the Smartphone Clip Holder, there is a small round button that you can press to release the Clip Holder from the Remote Controller.



6"

The smartphone clip holder is compatible with devices up to 6 inches in width.

Propeller Installation/Removal

How To Install Propeller A:

Put the propeller with marking "A" into the clockwise rotating motor shaft (the side marked "A" should face upwards). Next, put the soft pad into the center bore of the propeller. Then, using the propeller screw with the dot, put it onto the motor shaft; tighten the screw by turning counter-clockwise.

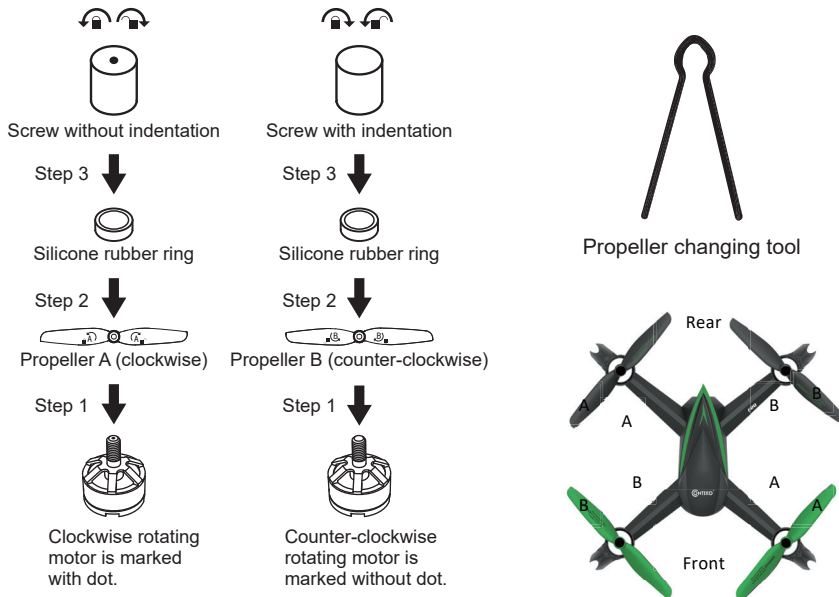
How To Install Propeller B:

Put the propeller with marking "B" into the counter-clockwise rotating motor shaft (the side marked "B" should face upwards). Next, put the soft pad into the center bore of the propeller. Then, install the propeller screw with no dot and put it onto the motor shaft; tighten the screw by turning clockwise.

How To Remove The Propellers:

Hold the drone's brushless motor in place and rotate the screw cap marked "A" clockwise, rotate the screw cap marked "B" counterclockwise. (please refer to the diagram below)

ATTENTION: Please follow the diagram below step-by-step. Be sure to keep in mind that the propellers are distinguishable by "A" & "B" markings and the propeller screws are distinguishable by a "dot" indentation. Please pay attention to prevent stripping the screws.

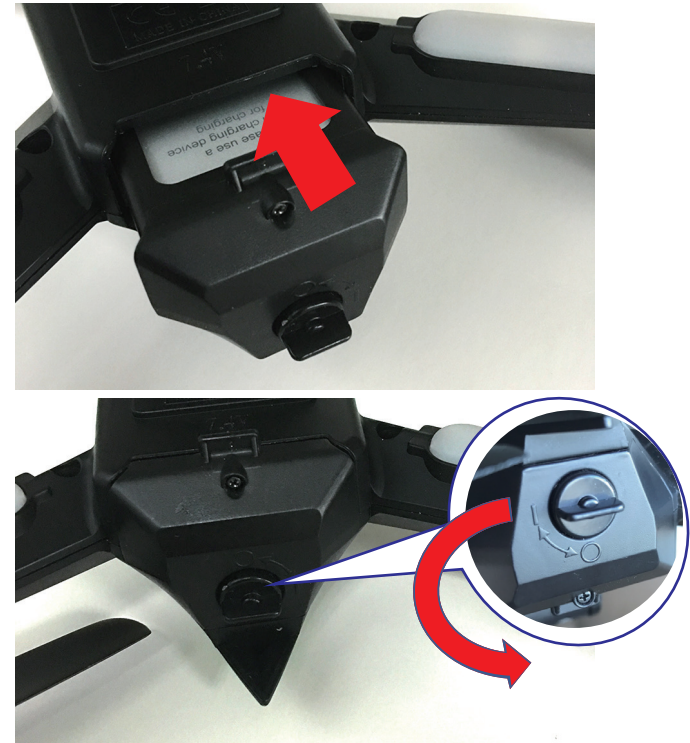


- **IMPORTANT:** Propellers must be properly installed on corresponding motors to avoid drone malfunction.
- Use caution when installing the propellers (as they are sharp).
- Please use Contixo propellers only for this drone. Extra propellers can be ordered through Contixo by calling 1-833-CONTIXO (266-8496) to order additional spare parts.

Powering On the Drone

How to Power On the Drone

Exerting mild pressure, slide battery into battery compartment. Listen for a quick "3 beeping sound." Immediately, the LED lights in front of the drone turns bright and the bottom indicator lights start to blink. This indicates that the drone power has been turned on. Next, locate the "Lock" near the end of the drone battery and turn it 90 degrees to the "O" position to lock the battery. This prevents the drone battery from falling off during flight.

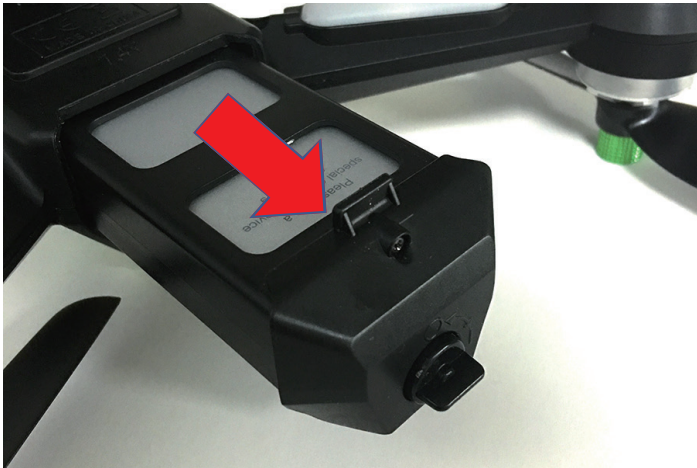
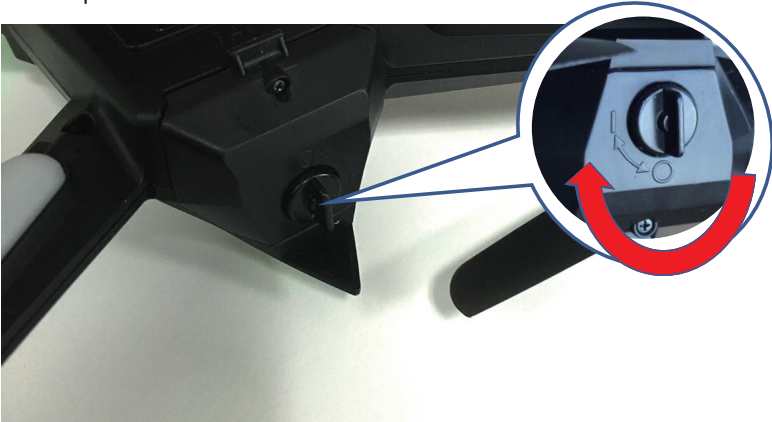


Powering Off the Drone

ATTENTION: Failure to properly secure the battery before flight engagement may result in battery dislodgment and drone malfunction.

How to Power Off the Drone

Turn the "Lock" located on the rear side of the drone battery 90 degrees to the "I" position. Next, using your thumb and index finger "Hold down" on the battery and pull the battery backward (towards you, away from drone) to remove it from the drone. Simply remove the battery from the drone to power off.



ATTENTION: Please keep your fingers and your drone dry and clean to avoid dropping the battery.

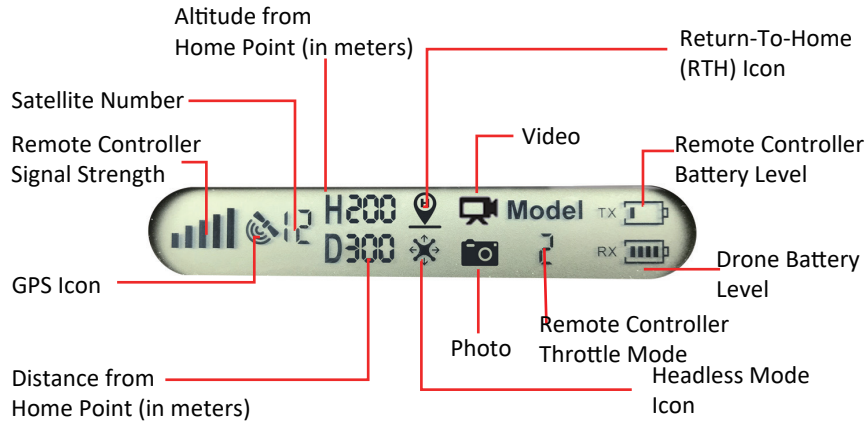
Remote Controller

Below is the diagram of the Remote Controller. You should get comfortable and familiar with the Remote Controller before every flight to prevent any accidents or incidents while flying.

- | | |
|--------------------------|-----------------------------|
| 1] Left Throttle Stick | [8] One-Key Takeoff/Landing |
| [2] GPS Mode Switch | [9] Unlock Button |
| [3] Power Indicator | [10] Photo/Video |
| [4] Power Switch | [11] Return-To-Home (RTH) |
| [5] Right Throttle Stick | [12] Smartphone Clip Hole |
| [6] Headless Mode Switch | [13] Camera Angle Trimmer |
| [7] LCD Display | |

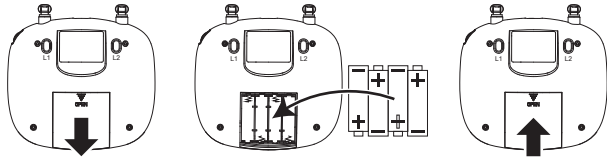


Remote Controller (continued)



Remote Controller Battery Installation

First, unscrew counterclockwise to open the battery compartment cover. Then, install four (4) AA batteries into the battery compartment according to the given polarity. Finally, screw clockwise to close the battery compartment.



- Insert four (4) new AA batteries as indicated.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.
- If using rechargeable batteries, remove prior to charging. Children should handle rechargeable batteries under adult supervision only.
- Exhausted/depleted batteries are to be removed from the remote controller.
- The supply terminals are not to be short-circuited.

Remote Controller Signal Connection

NOTE - First, please make sure that the drone is turned off (no battery is inserted into the drone).

All you need to do is simultaneously press and hold the “Red Lock/Unlock” button near the top of the remote controller AND turn “ON” the remote controller (by moving the power switch to the right). The remote controller will send out 2 beeping sounds and the indicator light will keep flashing (indicating that the remote controller is now ready to pair; you can also change the “Throttle Mode” at this time).

During this point (and before pairing with the drone), you are able to select the control mode which best suits you. Please see pages 11 – 13 for throttle control options.



ATTENTION:

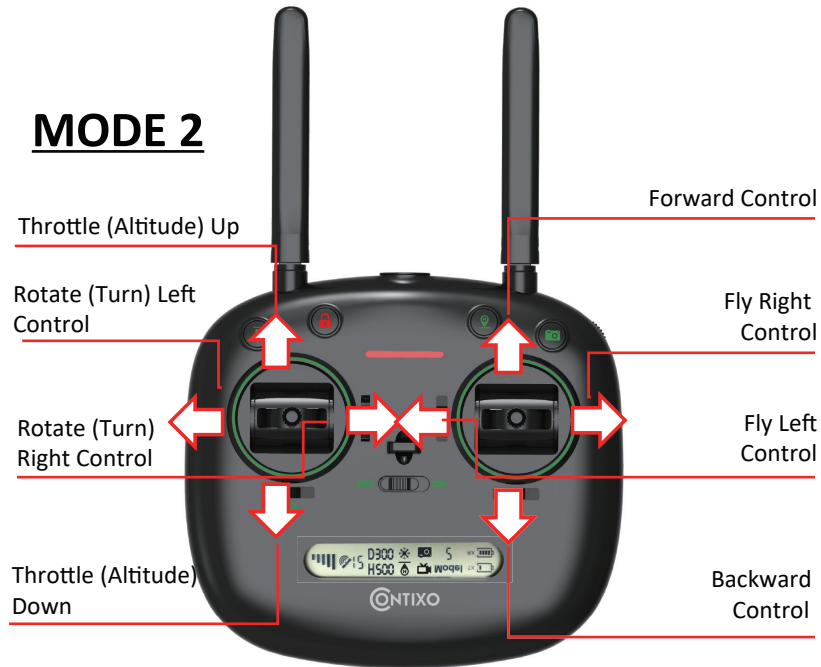
- Any interruption during the pairing process will disrupt pairing.
- You must not turn on the drone prior to this step. Otherwise, you will not be able to connect the drone and the remote successfully.
- This is the only time you can change between Remote Controller Throttle modes. If you wish to change modes after pairing, you must turn off the drone and the remote and repeat this process again.

Control Mode Selection (Optional)

The throttle control mode is set to “mode 2” by default. Left- and right-hand throttle are available control modes for users who prefer non-standard controls. There are a total of 2 control modes.

Default Control Mode

MODE 2



ATTENTION:

- Mode 2 is the universal standard for flight controls. We recommend that you do not change control modes unless you are an experienced, skilled pilot.
- Always take notice of what control mode is selected prior to flight.

Control Mode Selection (continued)

ATTENTION: To change between control modes, please make sure that your remote is under **Signal Connection** status (when the indicator light keeps flashing). If not, the control mode can't be changed. **Never power on the drone in this process.**

How to Change Between Control Modes

Long-press the RETURN HOME button (pictured below) for 3 seconds to choose the desired throttle control mode. The remote will beep when you change from one control mode to the next. The mode number is shown on the LCD screen.



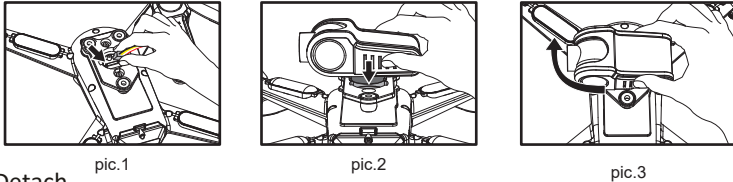
MODE 1



How to Attach and Detach the Camera

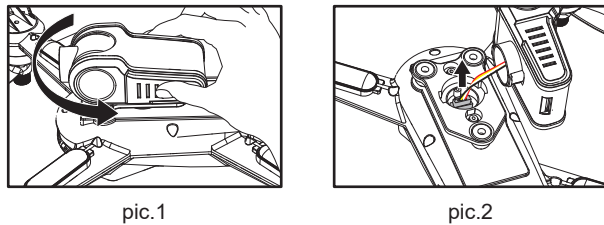
Attach

Step 1. Insert the white plug of the camera into the socket at the bottom of the aircraft (as indicated in pic. 1);
 Step 2. Insert the camera top cylindrical bulge into the slot at the bottom of the aircraft (as indicated in pic. 2); then turn clockwise 90 degrees of the camera to confirm the camera is installed firmly (as indicated in pic. 3).
 Note – Camera already comes pre-installed.



Detach

Step 1. Hold the camera with your thumb and index finger and then turn counterclockwise 90 degrees to take out the camera (as indicated in pic. 1);
 Step 2. Press on the buckle and take out the plug of the camera from the socket of the drone (as indicated in pic.2).



HELPFUL TIP:

The camera works only with our “Contixo F20” App. Please tum to page 27 for the App download and installation instructions. Beginners are suggested to press the "Help" button to learn about the camera operation method.

Short-press the camera button to take a picture. Long-press the camera button to capture a video (the corresponding icon will be displayed on the screen of the remote controller).

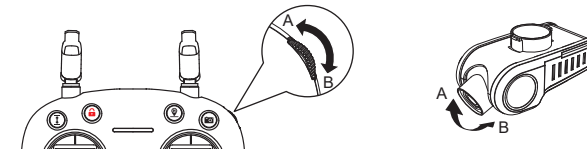


ATTENTION:

1. To use the remote controller to take photos or videos, you must first insert a microSD card into the drone to store the media. The microSD card slot is located in the "Rear" side of the camera.
2. When there is no microSD card in the drone, you can only use the smartphone App to take pictures and videos (which will be stored within the Contixo F20 app on your smartphone).
3. After the shooting is completed, you must press the “shooting button” again to end the shooting and save the video successfully.
4. When there is a microSD card in the drone, all shots are saved on the microSD card.

Camera Angle Trimmer

The camera angle can be adjusted within a 60 degree range by operating the gimbal trimmer to obtain a better aerial experience. When scrolling up (from “B” to “A”), the gimbal trimmer (upward to direction of “A”; see illustration below), the camera will tilt upward to the direction of “A”; when scrolling down, the gimbal trimmer (downward to direction of “B”), the camera will tilt downward to the direction of “B”.



HELPFUL TIP:

Please adjust the camera to keep a horizontal level by operating the gimbal upward before landing on the ground.








How to Pair the Remote to the Drone

Press and hold the “Red Lock/Unlock” button on top of the remote AND simultaneously turn “ON” the remote controller (by moving the power switch to the right). The remote controller will send out 2 beeping sounds and the power indicator light will keep flashing. Next, power on the drone within 10 seconds by inserting and locking the battery. After a “long beeping sound,” the connection signal icon and drone battery level icon is shown on the LCD screen. This means that the drone has successfully linked to the remote controller (as shown below). If the operation is not successful, turn off the remote controller and remove the battery from the drone to try again.



Signal Connection will only need to be completed once. The remote controller will remember your drone once paired.

Remote Control Status Indicator

No.	Status	Meaning
1	Indicator lights flash quickly.	The remote controller is under Signal Connection Status .
2	Indicator lights flash slowly with steady “beep...beep” sound and the battery icon “  ” on the LCD display is flashing.	The remote controller battery is low.
3	Battery icon “  ” on LCD display is as shown (with steady beep...beep...beep) sound.	Battery is running low “  ”; the drone will return when the altitude is over 328 ft. or the distance is over 984 ft.
4	Battery icon “  ” on LCD display is as shown with steady long beep sound.	The battery is low “  ”; the drone will return when the altitude is over 50 ft. or the distance is over 50 ft. and will land immediately.
5	Signal icon on LCD display is less than two bars or not displaying, with steady “beep...beep...beep” sound.	1. The distance between the drone and remote controller is so long that the signal is weak. 2. The battery is removed nearly after the drone connects to the remote controller.

Drone Initialization Detection

After **Signal Connection** has been successful, the drone enters the initialization detection procedure. Make sure that the drone is set on a flat and level surface for the this step. The initialization process takes about 8 seconds. The process is done once the front and the rear lights glow yellow and flash alternately. Now the drone will enter **Compass Calibration** mode.

ATTENTION: Please make sure that the drone is set on a flat and level surface for the initialization detection procedure to be successful.

Drone Compass Calibration

Two Steps for Compass Calibration:

Step 1) Horizontal Calibration

When the drone's front and rear lights flash yellow alternatively, hold the drone **horizontally** and rotate it 360 degrees along the horizontal axis for about 3 circles (counterclockwise). The drone's front and rear lights will change from flashing yellow to flashing green alternatively when complete.

Drone **Compass Calibration** must be done for each flight. When changing new battery or the battery is reinstalled, Compass Calibration should be done again. Compass Calibration must be performed after successful drone initialization detection.



Drone Compass Calibration (continued)

Step 2) Vertical Calibration

Hold the drone vertically with its front (camera) facing down and rotate it 360 degrees counterclockwise along its horizontal axis for about 3 full circles until the front and rear light of the drone change from flashing to solid (the front lights will be solid red and the rear lights will be solid yellow). After you are done with this step, please set the drone on a flat surface and wait for the satellite signal connection to be at least 7 and above. The compass calibration is successful when the front lights will be solid red and the rear lights will be solid green. You are now ready for liftoff!



ATTENTION:

- To fly with GPS mode, choose an open and wide space for the flight. Please also make sure that the **satellite number is more than 7**.
- **DO NOT** calibrate drone compass in an area with a strong magnetic field (such as an area with many parked cars/vehicles or construction area with underground reinforcement).

Gyroscope Calibration

Once the drone has been calibrated, set drone on a flat surface. Now, push down both of the control sticks to the lower-left corner and release (as indicated in photo below). When the front and rear lights are both green and flashing rapidly, it means that the gyroscope is under calibration status. When the lights turn solid, the calibration is successful.



- The gyroscope calibration has been done in factory by default. Gyroscope calibration is not required to be performed unless the drone cannot exit the drone initialization detection procedure while the drone initialization detection is finished.
- Please make sure to set the drone on a level horizontal surface when performing calibration. Failure to do this will affect the flight performance.

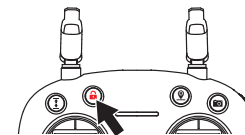
How To Lock and Unlock the Drone

Unlock the Drone:

There are 2 ways to unlock the drone that you can find below:

Method 1) Short-press the **RED** button. The motors and propellers will begin to rotate and spin. The drone is now ready for liftoff. (If you do not activate takeoff within a minute, the motor/propellers will automatically stop.)

Method 2) Push the left stick to lower-right corner and the right stick to the lower-left corner at the same time (simultaneously) and the drone will be ready for liftoff.



Pic. 1



Pic. 2

How To Lock and Unlock the Drone (continued)

Locking the Drone:

There are 3 ways to lock the drone that you can find below:

Method 1) When the drone is on the ground and the motor is still rotating, pull down the throttle stick to the bottom position or simultaneously push the left stick to lower-left corner and the right stick to the lower-right corner until the propellers stop. When the propellers stop, it means the drone is locked.

Method 2) When using 1-Key Landing or Auto Return, the motor will stop turning when the drone lands (and will automatically lock, turn off).

Method 3) Emergency Stop - Long-press the RED button and push the throttle down. The motors stop immediately and the drone will stop flying and fall. (This last method is not recommended as it can cause damage to the drone and endanger the safety of others).

Lost Control of the Drone




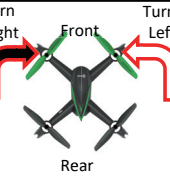



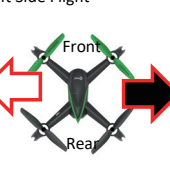
If you lose control of the drone, please do the following to prevent the drone from flying off:

Turn off the remote controller - The drone will automatically return (when the GPS signal connection is good with at least 7 satellites)

Turn off the remote controller – After 6 seconds, the drone will start to slowly descend until it lands on the ground and will self-lock (when there is no GPS signal or the GPS signal is weak; satellites number is less than 7)

Long-press the RED button AND push the throttle to the down. This will activate the “Emergency Stop” function and the drone will stop flying and perform a sudden stop. (This is not recommended as it can cause damage to the drone and endanger the safety of others).

Flight Operation (Mode 2)

Remote Control	Drone	Remote Control	Drone
	 Up Down		 Turn Right Front Turn Left Rear
	 Back Forward		 Left Side Flight Front Rear

One-Key Takeoff/ Landing

1. After the drone is unlocked, short-press the “Takeoff” button (as indicated below). The drone will automatically start hovering up to an altitude of between 6-9 feet. When using this feature, please also make sure that you have at least 6-9 feet of clear open space (in height) and do not operate the drone indoors.

2. When the drone is flying, **short-press** the **Landing** button (as indicated below). The drone will automatically land on the ground.



When the drone lands and the motors stop, the drone will be locked. (Please refer to page 20 for locking instructions.) You must unlock the drone again in order for takeoff.

Flight Modes

Manual Controls:

Switch or slide the GPS button to the left. This will turn the GPS function off and the drone can now be operated manually (recommended for more advanced users). You will see the GPS Icon disappear from the LCD display.



WARNING: The drone cannot fly with precise positioning and hovering without GPS enabled (turned ON). We only recommend you try this if you are an experienced pilot.

GPS Mode

GPS mode enables precise positioning and prevents drone loss. Simply move the GPS switch to the right side (“On”) position before operating the drone to use all of the GPS features such as **“Return-To-Home” and “Low Battery Return-To-Home.”** (Note - You must wait until you achieve a GPS signal of at least 7 satellites before flying the drone with GPS feature enabled.)



Headless Mode

Headless Mode will cause the flight controller to “remember” which direction is “forward” when the drone is ready to fly and use that direction as “forward,” “backward,” “left,” or “right” regardless of the current orientation of the drone.

To enable Headless Mode, move the Headless Mode switch to the right side (“On”) position before the drone takes off. Next, you’re required to position the drone in such a way that its front end faces away from you and the drone’s back end is facing you. You can give up worrying about orientation altogether with Headless Mode enabled. It is a great way for novice pilots to get used to flying a drone.



The **Return-to-Home (RTH)** procedure brings the drone back to the last recorded Home Point. There are 3 types of RTH procedures: **Smart RTH, Fail-Safe RTH and Low Battery RTH.**

The following section describes the Home Point and GPS signal in detail.

	GPS	Description
Home Point		The Home Point is the location from where the drone takes off. A strong signal of at least 7 satellites must be present prior to take off in order for the drone to remember the home point.

Smart RTH

If a strong GPS signal is available (more than 7 satellites on the LCD screen) and the Home Point is recorded at takeoff, press the **Return-To-Home** button. The drone will fly back to the Home Point. You must use the Remote Controller to guide the drone around any obstacles during the Smart RTH procedure. You can press the RTH button again to exit RTH procedure and regain the control of the drone.



PLEASE NOTE: The drone does not have sensors allowing it to avoid obstacles. The drone must always be flown in a wide-open area and must be manually controlled to avoid obstacles. Use caution when using the Return-To-Home (RTH) function and make sure the drone does not end up on a rooftop, a tree, or any other obstacle that may be in the way during return and descent.


Flight Modes (continued)


Fail-Safe Return

Fail-Safe RTH will be triggered if the remote controller signal is lost for more than 6 seconds. The GPS control system will guide the drone automatically to the last recorded Home Point. Regain control of the drone by pressing the RTH button if the remote controller signal is recovered.

- During the Fail-Safe Return procedure, the drone cannot avoid obstacles (there is no auto-detection sensors for any obstacles).
- The drone cannot Return-To-Home if the GPS signal is weak (satellites number is less than 7).
- If there is no GPS signal, and remote controller signal lost for more than 6 seconds, the drone will not Return-to-Home but descend slowly until it lands on the ground and lock the drone.

Low Battery Return-To-Home (RTH)

The drone will perform a Low Battery Return-To-Home function when the battery is low. If the battery icon on the LCD screen shows “,” the rear lights flash red slowly and you will hear a steady “Beep...Beep” sound. This is a notification that your drone’s battery is low and it is time to bring it home. If the **drone’s altitude is over 300 ft. or the drones distance is 900 ft. away, the drone will automatically fly back to the original Home Point.**

If the battery icon on the LCD screen shows “,” and you hear a steady “Beep...Beep” sound, this is a notification that your drone’s battery is very low and it is time to bring it home. If the **drone’s altitude is over 45 ft. or the drones distance is over 45 ft. away, the drone will automatically fly back to the original Home Point.**

If the **drone flying altitude is less than 45 ft. or the flying distance is less than 45 ft., then drone will automatically land to the ground.**

WARNING: When drone is in **Low Battery Return-To-Home (RTH)** status, **you cannot regain control of the drone by pressing the RTH button.**

Capturing Photos and Videos

Photo:

To capture breathtaking photos, **simply short-press the Photo/ Video** button. The LCD screen camera icon will flash once and the remote will beep once notifying you that the image has been captured.

Video:

To capture breathtaking videos, simply **long-press the Photo/Video** button. The remote will beep twice and the LCD video icon will flash during recording. To stop recording, simply **long-press the Photo/Video** button. The remote will beep twice and the video icon will disappear from the LCD screen.



ATTENTION: It is not possible to capture photo or video when the drone does not have a microSD card inserted or if the microSD card is malfunctioned. You can always capture photo and video by using the Contixo F20 App interface. However, if you do not finish recording a video prior to powering off the drone, the video file will be corrupted and it will not be viewable or saved.

Low Battery Warning

Keep an eye out for **the Low Battery Warning**. The drone and the remote will notify you when you are running low on battery. **The drone’s front indicator lights will remain solidly lit while the rear indicator lights will flash slowly when the battery is beginning to run out.**

The drone’s front indicator lights will remain solidly lit while the rear indicator lights will flash rapidly when the battery is near depletion. At this point, we recommend bringing the drone in for a safe landing.

Signal Strength Indicator

Signal Strength icon shows the strength of the received signal. The more, the better. If the signal is weak or irregular, then please do not fly the drone in the same area.



- **DO NOT** attempt to fly over populated areas in case you lose connection and for the general public safety of others.
- During the **Fail-Safe Return** procedure, the drone cannot avoid obstacles.
- The drone cannot Return-To-Home if the GPS signal is weak (satellite number is less than 7).
- If there is no GPS signal and the remote controller signal is lost for more than 6 seconds, the drone **will not** Return-To-Home but instead descend slowly until it lands on the ground and locks itself.

Pre-Flight Preparation

Before you takeoff, please make sure:

1. The drone and the remote controller are completely charged.
2. The propellers are installed correctly and screwed in the right direction.
3. The motors (and propellers) work normally after unlocking.

Flight Preparation

1. Link the remote controller with the drone.
2. Perform the drone initialization detection.
3. Perform the drone compass calibration.
4. Unlock the drone.
5. Slowly push the throttle stick upward and the drone will takeoff.
6. After you are done with your flight, you must pull the left-side (altitude) throttle lever slowly to the bottom (down) until the drone lands safely and the motor stops rotating. The drone will automatically lock itself.
7. Take out the battery from battery compartment of the drone and store or recharge it for your next flight.

Smartphone Device Application (Contixo F20 App)

The **Contixo F20** Smartphone App is essential to access all the features of the Contixo F20 drone. Please make sure that your smartphone supports 5G Wi-Fi and be sure to download & install the "**Contixo F20**" App to your smartphone before you fly your drone.

Where to download "Contixo F20" App:

For Android users, please go to the Google Play Store and search "**Contixo F20**" to download and install.
For Apple (iOS) users, please go to the Apple App Store and search "**Contixo F20**" to download and install.

Scan the following code with your smart phone in order to download the flight control app.



How to Link the "Contixo F20" App to the Camera:

Turn on the drone. Then, enter your smartphone's **SETTINGS** option. Turn on Wi-Fi, find "**Drone_XXXXXX**" on the list and connect your device to that Wi-Fi signal.

Make sure that your smartphone and the drone have successfully connected. Next, exit settings and tap open the "**Contixo F20**" App on your smartphone; click '**START**' to enter the **App** interface



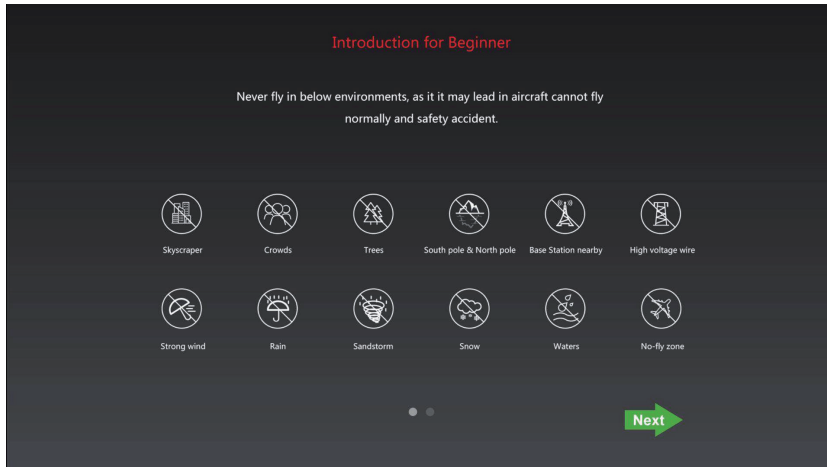
START

HELP

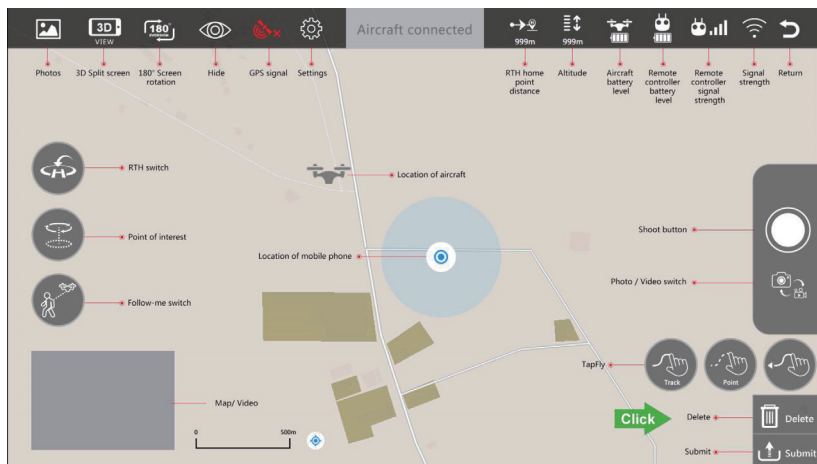
“Contixo F20” Smartphone Application (continued)

ATTENTION: Please make sure that your smartphone supports 5G Wi-Fi before linking to the Contixo F20 App.

Tap on the “Start” button for the Introduction for Beginner.

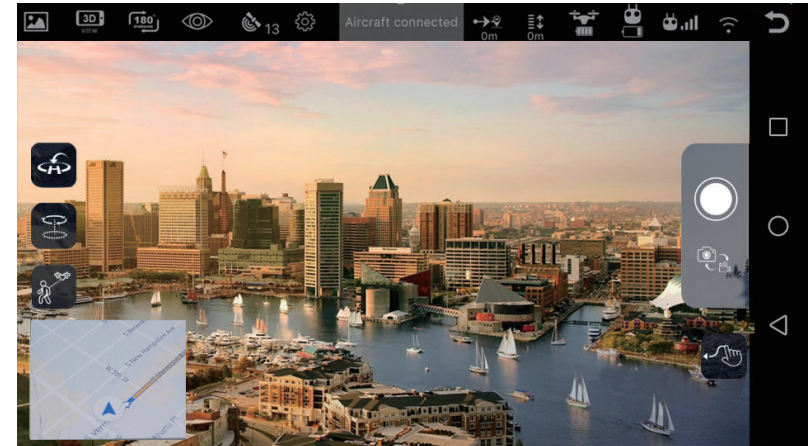


Tap on “Next” button into Functional Description Interface.

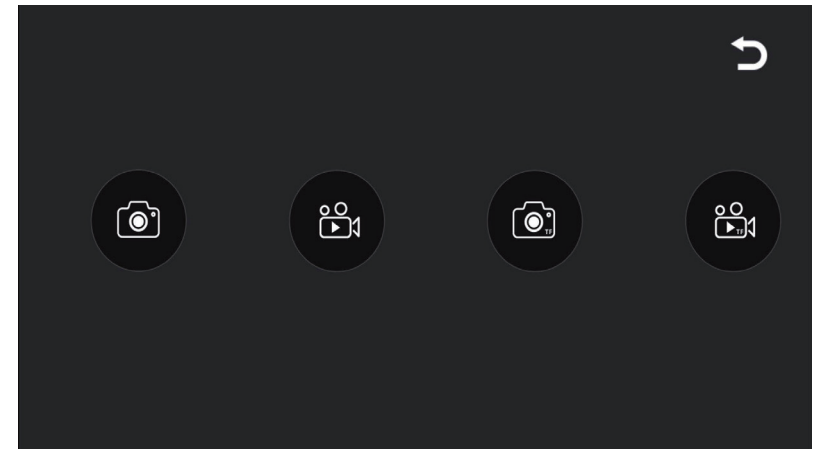


“Contixo F20” Smartphone Application (continued)

Please understand the functions of the Contixo F20 App first, then tap on the “Click” button. You will see a live feed from the drone camera and you will be ready to use your app to record videos, take photos, view your gallery, and enter the VR Headset FPV Viewer (VR Headset not included).



Photos: Press this icon to enter the gallery. Tap on “Return” button to exit the gallery.



Gallery Viewer

You can view all of your captured files via the Contixo F20 App interface. Simply press the “Gallery” icon to enter the gallery interface.



Video Internal Viewer: Press this icon to access the video files recorded or downloaded internally on your device.



Photo Internal Viewer: Press this icon to access the photo files recorded or downloaded internally on your device.



Video TF Card Viewer: To see the videos stored in the microSD card through your smartphone, you must connect your drone to the phone’s WiFi first, then click the “📺” button to download the videos into the phone. Click the “📺” button for playback. You also can delete the files by pressing the “📺” button.



Photo TF Card Viewer: To see the photo stored in the microSD card through your smartphone, you must connect your drone Wi-Fi to the phone first, then click the “📺” button to download the photo into the phone. Click the “📺” button to playback. You also can delete the files by pressing the “📺” button.



3D Split Screen: Press this icon to enter the 3D VR viewer. You will need a VR headset for this feature to work.



180° Screen Rotation: Press this icon to rotate the orientation of the camera feed if it is upside down.



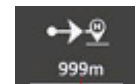
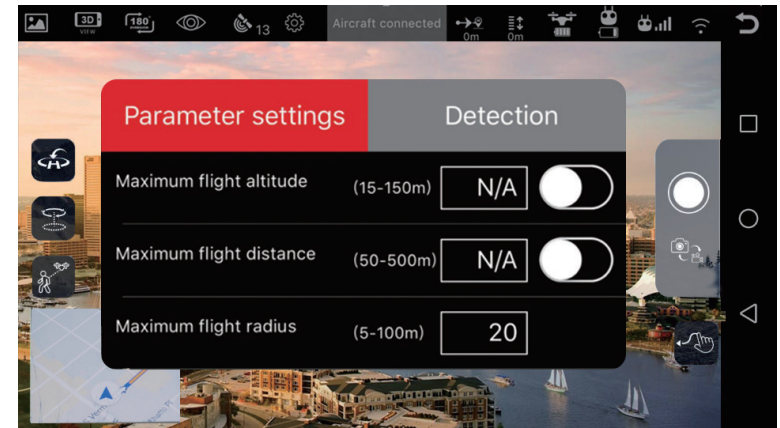
“Hide” Button: Press this icon to hide the icons on the App.



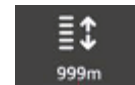
GPS Signal: The number in the lower-right corner of the icon shows the number of satellites that have been found. If no satellite signal is present, then the icon will be red.



Settings: This is where you set the flight parameters.



Horizontal Distance (RTH Home Point Distance): Display the horizontal distance of the drone to the return point.



Vertical Distance (Altitude): Display the vertical distance from the drone to the return point.



Aircraft Battery Level:
Display the power of the drone.



Remote Controller Battery Level:
Display the power of the remote controller.



Remote Controller Signal Strength Display the **Signal Connection** between the remote controller and the drone.



Signal Strength: Display the **Signal Connection** status between the smartphone 5G Wi-Fi and the drone camera.



“Return” Button: Press this icon to return to the previous menu.



Location of Aircraft



Location of Mobile Phone



Photo/Video Switch: Select this option when choosing between Photo and Video modes.




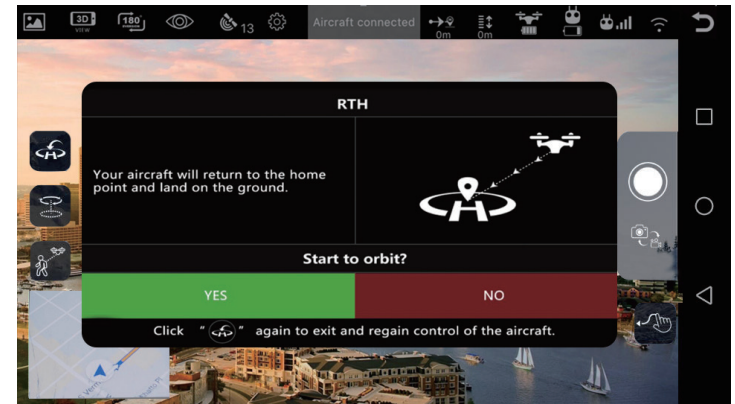
Shoot Button: In Photo Mode, click to take a photo. In Video Mode, click to start recording. Click again to close and save the video. If you are disconnected from the Wi-Fi connection (or if you turn off the power without saving the recording of the video), then the video may not be saved successfully.

ATTENTION:

1. When there is a microSD card in the drone, the pictures and videos will be stored in the microSD.
2. When there is no microSD card in the drone, you can only use the smartphone app to take pictures and videos (which will be stored in the Contixo F20 app within your smartphone).






RTH Switch (Return-To-Home) Icon: If a strong GPS signal is available (more than 7 satellites displayed on the LCD screen) and the Home Point is recorded at takeoff, press the RTH icon and select "YES." The drone will then begin to fly back to the Home Point. The icon will turn green when you enter the Auto Return-To-Home (RTH) mode. Click “  ” again to exit and regain control of the drone.



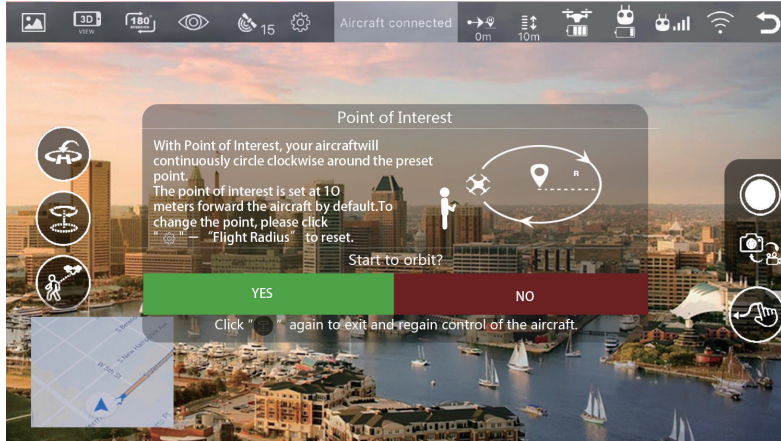
PLEASE NOTE: The drone does not have sensors allowing it to avoid obstacles. The drone must always be flown in a wide-open area and must be manually controlled to avoid obstacles. Use caution when using the Return-To-Home (RTH) function and make sure the drone does not end up on a rooftop, a tree, or any other obstacle that may be in the way during return and descent.




The following three functions can only be used if your drone is hovering and GPS signals are available. In case of emergency, you can turn off the power on the remote controller and let the drone end the flight and automatically return.

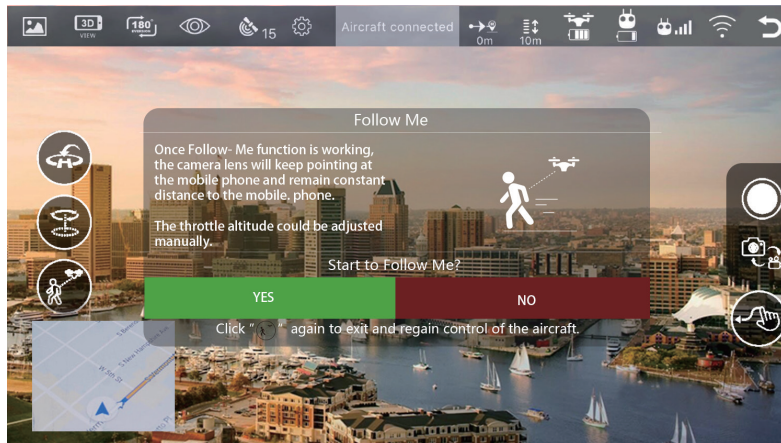


Point of Interest: Press the “  ” switch and select "YES." Your drone will circle clockwise around the preset point. By default, the radius is 10 meters. To change the point, please click “  ” --" Flight Radius" to reset. The icon will turn green. Click “  ” again to exit and regain control of the drone.


"Contixo F20" Smartphone Application (continued)





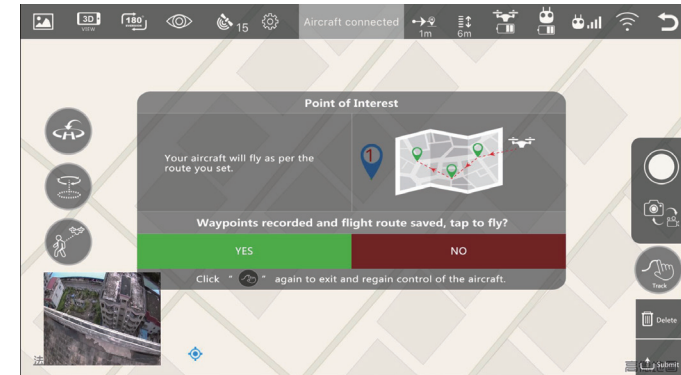
 Follow Me Switch: Press the " " icon and select "YES." The Follow Me feature is now enabled. The drone's camera lens will keep facing the smartphone and remain within a fixed distance to your smartphone. The altitude can be adjusted manually by using the left control stick (throttle). When the Follow Me feature is enabled, the icon will turn green. Click " " again to exit and regain control of the drone.





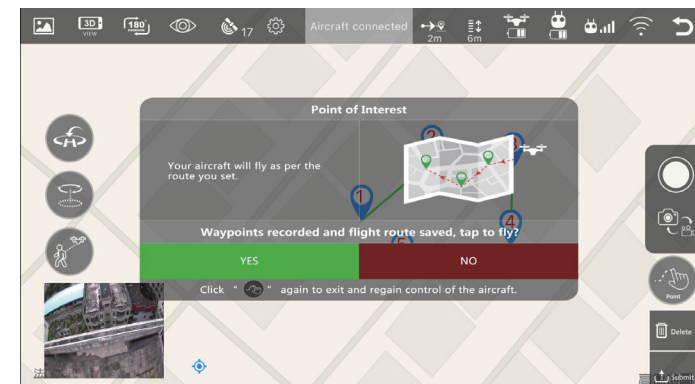
"Contixo F20" Smartphone Application (continued)

 TapFly: With this feature enabled, you can switch between flying the drone with "by touch" (with your finger within the) or set a trajectory flight path.

 TapFly (Track): Start by tracing a flight path (route) on the map within the app, then click "Submit" > "YES." The drone will then follow the trajectory drawn. The throttle altitude could be adjusted manually. The icon will turn green. Click " " again to exit and regain control of the aircraft.



 TapFly (Point): You can set several coordinate points on the map (up to 18 points within a valid control distance), then click "Submit" > "YES." The drone will then fly over these coordinate points that you had set up. With the left throttle, you can also adjust the altitude manually. When enabled, the icon will turn green. Click " " again to exit and regain control of the drone



Troubleshooting		
No.	Status	Meaning
1	Front and rear lights flash yellow rapidly	Signal between drone and transmitter has been interrupted
2	Front and rear lights flash red , yellow , and green alternately	Drone initializing and pairing
3	Front light glows solid red , rear light glows solid yellow	No GPS signal; drone is in manual mode
4	Front light glows solid red , rear light glows solid green	Good GPS signal; drone is preparing for GPS mode
5	Front and rear lights flash green rapidly	Gyroscope is calibrating
6	The indicator lights on the front and rear flash yellow alternately	Drone's horizontal compass is calibrating
7	Front and rear lights flash green alternately	Drone's vertical compass is calibrating
8	Front light glows solid red , rear light flashes red slowly	25% battery life remaining
9	Front light glows solid red , rear light flashes red rapidly	15% battery life remaining
10	Front and rear lights flash once then stop for 1.5 seconds	Gyroscope malfunction
11	Front and rear lights flash twice then stop for 1.5 seconds	Barometer malfunction
12	Front and rear lights flash three times then stop for 1.5 seconds	Compass malfunction
13	Front and rear lights flash four times then stop for 1.5 seconds	GPS module malfunction

Troubleshooting (continued)		
No.	Status	Meaning
14	The front and rear lights of the drone flash green rapidly	Remote controller and drone not successfully paired.
15	The front and rear lights of the drone flash red , yellow, and green alternately and do not change	1. Check to see if the drone is in pairing mode 2. Re-calibrate the gyroscope.
16	The front and rear lights of the drone flash green alternately	1. Take the compass horizontal calibration steps. 2. The compass of the drone is broken and will need replacement
17	The front and rear green indicator lights of the drone flash alternately	1. Take the vertical compass calibration steps. 2. The compass of the drone is broken and will need replacement
18	The drone's GPS fails	The GPS signal is weak. Please fly in another wide-open area with less magnetic interference and has better Wi-Fi reception.
19	The return point of the drone is far away from the takeoff point	1. The GPS signal is weak. Please fly in another wide-open area with less magnetic interference and has better Wi-Fi reception. 2. The drone cannot receive satellite signal while taking off. Fly the drone again when it receives a Signal Connection with at least seven
20	The drone fails to unlock	satellites. 1. The battery of the drone is low. Please replace the battery. 2. The drone is in initialization status. Please re-calibrate the gyroscope.
21	Flight out of control	1. Under the GPS mode and the GPS signal is in good condition, immediately turn off the power of the remote control, the drone will automatically return. 2. When the altitude of the drone is below 6.56 ft, emergency stop can also be used.

How to Calibrate Remote Controller

Control sticks calibration has been done in the factory by default. It is not necessary to calibrate the remote controller unless you are experiencing unusual or unstable flights.

1) Turn on the Remote Controller while **simultaneously** pressing the “Red Unlock” button. 2) Push down the **1-Key Takeoff/Landing** button and hold it for 3-4 seconds. The Remote Controller will send out 3 beeping sounds; the indicator light of the Remote Controller turns from flashing quickly to slowly. 3) Next, fully rotate both the left and right control stick in clockwise direction for 2 complete full circles. 4) Then, push down the 1-Key Takeoff/Landing button again and hold on for 3-4 seconds. The Remote Controller will send out 3 beeping sounds; the indicator light of the Remote Controller turns from flashing slowly to quickly (which means that the Remote Controller calibration is now



(Rotate for 2 full circles, clockwise, simultaneously)

ATTENTION: Please do not power on your drone when calibrating the remote controller.

Have questions ?

Call Our Toll-Free Hotline: 1-833-CONTIXO (266-8496)

International: + 1-909-465-5662

E-mail: support@contixo.com

We are open Mon-Fri 9:00 am – 4:00 pm PST



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