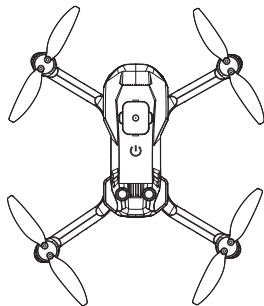


14+
age

F16 User Manual

Suitable for 14 years old and above

**Please read this instruction carefully before use,
and keep it properly for reference.**



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Made in China

SPECIFICATIONS

DRONE

Model: F16

Weight: 174g

Max Flight Time: Approx 15 minutes

Max Flight Distance: 300 m

Max Flight altitude: 120 m

Max Flight radius: 5 m

Operating Temperature Range: 50°F to 140°F (10°C to 60°C)

Dimensions: 140 x 90 x 65 mm (Folded)

285 x 275x 65 mm (Unfolded)

DRONE BATTERY

Capacity: 1800mAh

Voltage: 3.7 V

Battery Type: Li-Po

Energy: 6.66 Wh

Charging Temperature Range: 50°F to 140°F (10°C to 60°C)

Charging Time: 150 mins

BATTERY CHARGER

Input: 5V \equiv 2A

Output: 11.4V \equiv 1-2A

CONTROLLER

Operating Frequency: 2.4 GHz

MAX Transmission Distance: 300m (outdoor and unobstructed)

Battery: 3x1.5V AA.

CAMERA

Camera frequency: 2.4 GHz

Resolution: 1080P

Lens: FOV 90°

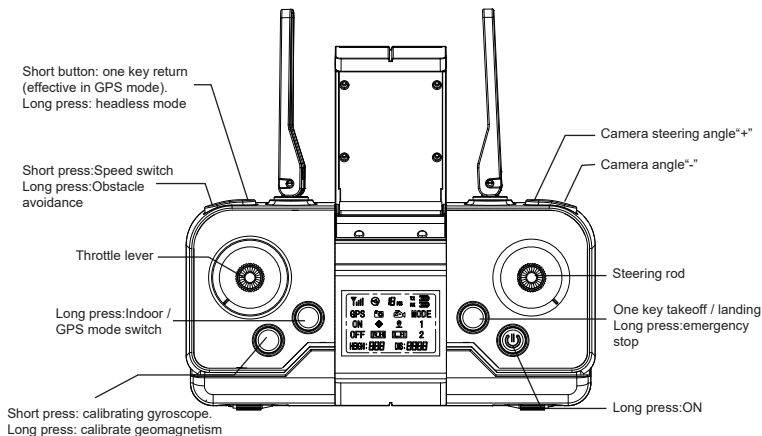
FPV Distance: 300m (outdoor and unobstructed)

Photo: JPEG

Video: MP4

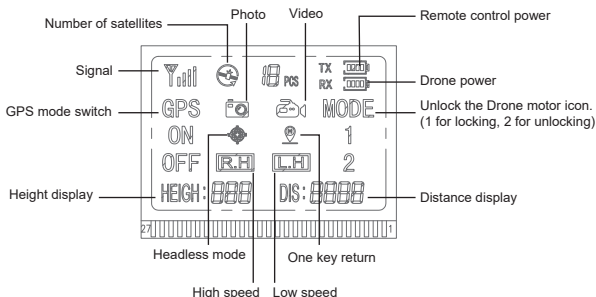
Controllable Range: Pitch: -90° to 0°

Remote Ctrl Function Description



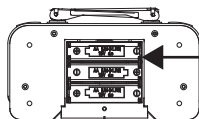
Note: The remote control automatically adjusts the frequency. Please calibrate the gyroscope and geomagnetism before starting the flight to ensure the flight stability. Boot default GPS mode. Please turn to Indoor mode manually when flying indoors, otherwise you can't take off.

Remote control display screen function description



Remote Control and Aircraft Battery Installation and Charging Instructions

1.Remote control battery installing



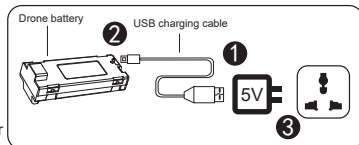
AA*3



Put the battery correctly according to the electrode instructions (+,-) of the battery box as shown

2.Drone battery charging

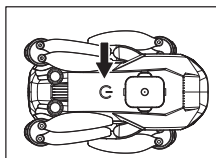
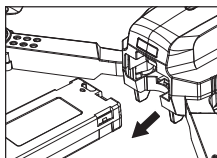
- (1) Remove the battery from the aircraft.
- (2) Connect the battery to the specific charging cable, and then insert the cable into the charging equipment such as the USB power supply.
- (3) When the remote control is charged, the indicator lights up while be off when charging completion.



Note: Use an power supply with standard output voltage 5V and current greater than or equal to 2A, otherwise there is a risk of overloading the USB cable and Battery. The flight time is about 15 minutes and the charging time is about 120 minutes.

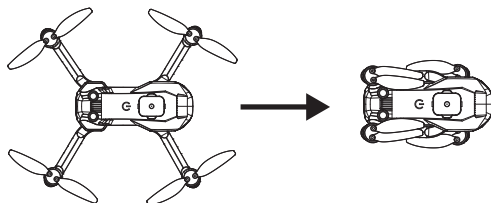
3.Installation and startup of aircraft battery

Put the fully charged battery into the battery slot of the aircraft and hold down the power switch until the aircraft lights up.



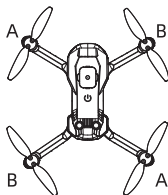
Aircraft installing

1.Folding



2. Installation of aircraft blades

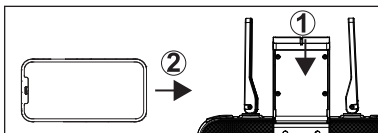
Please install the propeller in the correct direction, and lock the screw after installing the support arm of the aircraft corresponding to the mark (A/B) on the propeller.



Remote Control

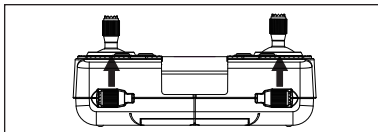
1.Mobile phone rack

Pull out the mobile phone handle and clamp the mobile phone.



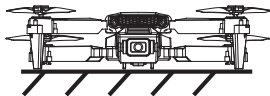
2.Grip installing

Take the grips under the controller and install to specified position



3.Pairing

Turn on the aircraft and place the aircraft on the flat ground. At this time, the aircraft indicator flashes and then turn on the remote control. And then pairing automatically between drone and remote control. Pairing success and completed after 2-3 seconds, the remote control handle emits "beeps" sound.



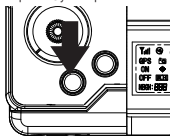
Note: 1. The GPS mode is default when turn on the drone.

2. Could not be change to indoor mode when the drone searched GPS signal.

4.Gyroscope calibration

The aircraft must calibrate the gyroscope before flight, press the gyroscope calibration button briefly, and the aircraft indicator flashes into the gyroscope calibration. After the calibration is completed, After the flash, the calibration is completed.

Short press:Gyroscope calibration



5. Geomagnetic calibration

After the gyroscope calibration is completed, the next step is geomagnetic calibration, press and keep the gyroscope / geomagnetic calibration button for 2 seconds, and the tail light of the aircraft flashes into the geomagnetic calibration. And then, take the aircraft and rotating horizontally 3-5 circles.

After the remote control handle emits a "beep" sound, then rotating the aircraft vertically, the remote control handle emits a "beep...." sound again, and the calibration is successful.



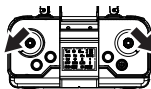
Long press: Geomagnetic calibration



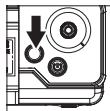
6. One key takeoff / landing Long press: emergency stop

GPS Mode (screen show "GPS ON"):

After searched 12 GPS signals and pushing the Left stick to the lowest left corner, and meanwhile push the right stick to the lowest right corner (Pic 1), then the motors of the drone start rotating. And now press one key take off button (Pic 2), then the drone will be taking off.

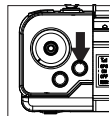


(Pic 1)



(Pic 2)

Indoor Mode: After frequency pairing between drone and remote control and then long press the Indoor mode button (Pic 3) to change to Indoor mode (**screen show "GPS OFF"**). Next, push the Left stick to the lowest left corner, and meanwhile push the right stick to the lowest right corner (Pic 1), then the motors of the drone started rotating. And now press one key take off button (Pic 2), then the drone will take off.



(Pic 3)

Emergency stop: Long press one key take off button (Pic 2) to activate emergency stop when the drone flight altitude not higher than 2m .

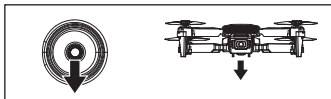
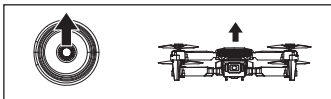
- ! Note:** 1. In GPS mode, one key landing function could be activated when the drone flight altitude not higher than 10m, the flight distance not longer than 5m.
2. The drone will power off automatically after 8 mins when motors not any woking.
3. The remote control will power off automatically after 20 mins when not any action.

Stay away from the
rotating propellers and
motors.

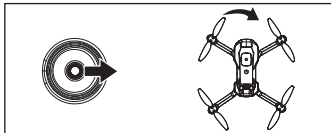
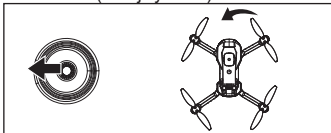


Controller joystick

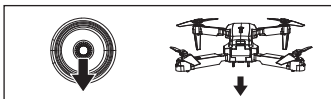
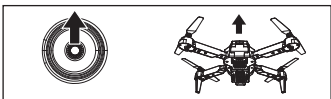
● Throttle (left joystick)



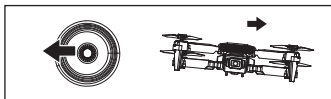
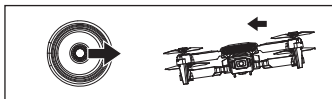
● Rotation (left joystick)



● Forward and backward (right joystick)



● Left and right side flight (right joystick)



Headless Mode (Only indoor mode)

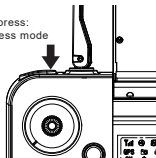
When switching to headless mode, the aircraft will give up its front, back, left and right directions, and take the nose direction (one side with camera) of the aircraft at 2.4 G frequency pairing as the forward direction.

(1) Direction definition before take-off: Put the forward direction of the aircraft directly in front of you (there is a camera side, and then turn on the remote control for 2.4 G frequency pairing to complete the headless mode direction definition of this flight.

(2) Press headless mode when flying, and the remote controller keeps making noise; The aircraft lights quickly flash and enter the headless mode;

Press the headless mode key again, and the remote control handle emits a "beep" sound and exit the headless mode.

Long press:
Headless mode



- !** Note: 1. The headless mode could not be activated when the drone in GPS mode.
2. The headless mode could be activated when the drone in indoor mode.
3. Before activate the headless mode, the drone forward direction must be determined, that is the direction of the aircraft on the ground after startup.

Speed Switch

Short press:Speed



Gear 1 speed is default.

The speed switch is divided in three speeds for the flight of forward, backward and left & right side. It defaults to gear 1 after power on. And when press the remote control with two sounds of Beep for the gear 2, three sounds of Beep for the gear 3 and one sound of Beep for returning to gear 1.



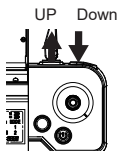
- Note: 1. Gear 1 speed is the only speed when the drone in indoor mode.
2. Beginners would be suggested to use the default speed firstly to play until you are skillful.

Camera pitch control

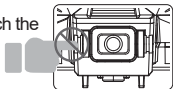
Through the remote control steering gear control key control camera up and down shooting angle.

1, press the camera lens electric up button, the body lens angle up slowly move; release the button that stop moving.

2, press the camera lens electric down button, the body lens angle down slowly move; release the button to stop moving.



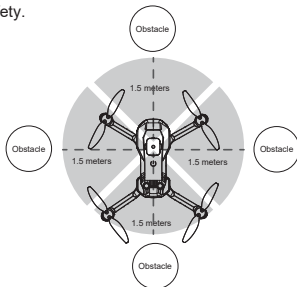
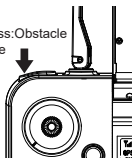
Don't touch the Gimbal.

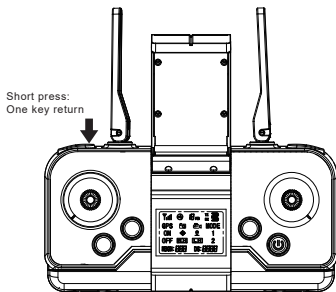


Obstacle Avoidance Mode (Only for Indoor mode)

1. The obstacle avoidance function will be activated automatically when the drone change to indoor mode. Please make sure 3m space enough around the drone when operating indoor before take off.
2. Activated obstacle avoidance, the aircraft indicator flashes slowly, the flight speed slows down automatically, the aircraft indicator flashes and the remote control handle emits a "beep" alarm sound when close the surrounding obstacles, and hovers in a safe range from the stop to ensure flight safety.

Long press:Obstacle avoidance





Return to Home (RTH)

- The Return to Home function brings the drone back to the Home Point.
- The Home Point is the location at which the drone takes off. This location will be recorded as the Home Point.


Failsafe RTH

If the remote control disconnect with drone when flying, the remote control handle emits a "beep" alarm sound. The drone will automatically start the return procedure and it will fly back to the Home Point. You can exit "Failsafe RTH" mode by pressing the "Return to Home" button or pushing the Throttle Joystick if the controller signal is recovered.



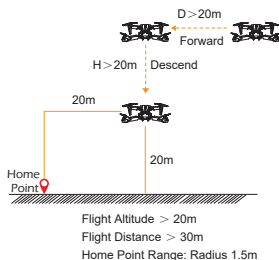
- During the Failsafe Return procedure, the drone cannot avoid obstacles.

Low Voltage RTH


① The "  " symbol is displayed on the controller screen. Then the First Low Voltage RTH will be triggered. The remote control handle emits a "beep" alarm sound. The drone will return automatically in the following two conditions: (At this time, the drone can only fly within a safe range of its height no more than 20m and its distance no more than 20m.)

a. When the flight distance is more than 20m, the drone will fly automatically into the electronic fence (H 20m x D 20m) and stay the current distance, then exit the First Low Voltage RTH. If the flight distance is equal to 20m, the drone will stay current distance, then exit the First Low Voltage RTH.

b. When the flight altitude is higher than 20m, the drone maintains its current height and then flies automatically into the electronic fence (H 20m x D 20m), then exit the First Low Voltage RTH. If the flight altitude is lower than 20m, the drone will ascend to 20m and fly automatically into the electronic fence (H 20m x D 20m), then exit the First Low Voltage RTH.



1. During the First Low Voltage RTH, the drone ascends to 40m when the flight altitude is lower than 40m and flight back then descend altitude to 20m.
2. During the First Low Voltage RTH, if the drone flight altitude is higher than 40m, the drone will keep in current altitude and flight back then descend altitude to 20m.

② If the drone's lights begin to flash rapidly the "  " symbol will be displayed in the controller screen and the remote control handle emits "beep-beep" alarm sound. The Second Low Voltage RTH is automatically triggered. Drone will return automatically.



1. During the Second Low Voltage RTH, the drone can not be controlled to ascend and descend. But you could operate the Right Joystick to change the landing position.
2. The drone cannot avoid obstacles.

Problem solving guidelines

Problem	Cause	Treatment mode
After the aircraft is connected with the battery, the indicator light flashes continuously, and the operation is unresponsive	Aircraft and remote controller 2.4 G frequency alignment was unsuccessful	Please re-perform 2.4G alignment between aircraft and remote control
There is no reaction after connecting the battery.	(1) Check whether the remote control or aircraft is powered on (2) Check the remote control or aircraft battery for low voltage (3) Whether the positive and negative plates of the battery is in poor contact	(1) Reinstall the battery (2) Charge or replace new batteries (3) Confirm that the positive and negative polarities of the battery are installed correctly
When pushing the throttle remote lever, the motor does not rotate, and the indicator light of the aircraft flashes all the time	Aircraft battery is low	Charge the battery or replace a fully charged battery
The propeller of the aircraft keeps rotating but cannot take off	(1) Propeller deformation (2) Aircraft battery power is insufficient	(1) Replace the spiral prize (2) Charge the battery or replace a fully charged battery
The aircraft vibrates badly	Propeller deformation	Change propeller
The aircraft always drifts in one direction	The center point of gyroscope on aircraft is wrong	Re-calibrate horizontally or reboot Re-alignment
The aircraft lost its balance after falling	The center point of gyroscope on aircraft is wrong	Re-calibrate horizontally or reboot Re-alignment

Note: the batteries of newly purchased products are low voltage, please fill the battery before use!

Disclaimer

Please read this manual carefully before using our product.

This product is not recommended for people under the age of 14. By using this product, you hereby agree to this disclaimer and signify that you have read it fully. You agree that you are responsible for your own conduct and any damage caused while using this product, and its consequences. You agree to use this product only for purposes that are proper and in accordance with local regulations, terms and all applicable policies and guidelines ATTOP may make available.

WiFi connection instructions

Downloading App




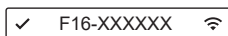
Scan the QR code, corresponding to either App Store™ or Google™ Play Store and download the " G07 Drone " application for free.

Required Operating Systems: iOS v8.0 and later / Android v4.3 and later

Tip: Please use a smartphone that can support receiving 2.4G and 5G WiFi signals.

Connecting to Wi-Fi

- ① Connect your smart phone to the Wi-Fi network created by the drone. Check the drone's status in the "G07 Drone"  app.
- ② Your smartphone will launch a search for the available Wi-Fi hotspot:

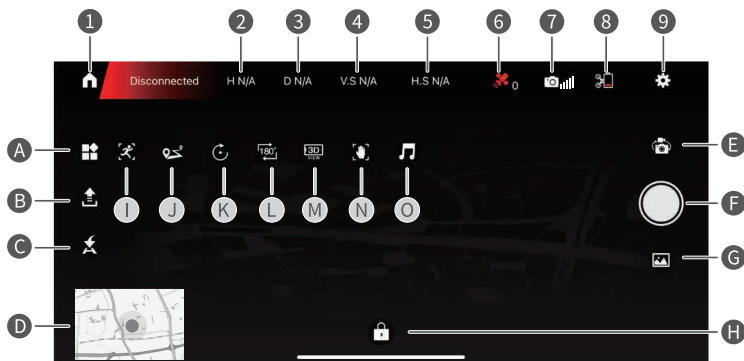


- ③ Select the Wi-Fi network: F16-XXXXXX
- ④ Wait for several seconds until your smartphone connects to the drone's Wi -Fi hotspot. This connection is generally represented by the Wi-Fi logo appearing on your smartphone's screen.
- ⑤ Select the F16 drone and click "Start" to into the interface.



APP OPERATION INSTRUCTION

Operation Interface



1 Home page

2 Flight height

3 Flight distance

4 Vertical speed

5 Horizontal speed

A More function

B One key take-off/Landing

C Return to Home (RTH)

D Live map

E Photo/Video mode

F Shutter

G Media gallery

H Unlock

6 GPS signal

7 WIFI signal

8 Drone battery power

9 Setting

I Follow me

J Waypoints

K Point of interest

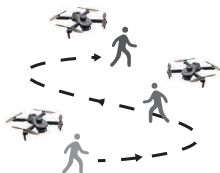
L Flip image

M VR mode



N Gestures Photo/Video


O Music

Follow Me (In GPS mode)



The follow me function could be activated when the distance range is 5m-20m between player and drone.






1. Click the "  " icon on the app interface to enter the Follow Me function.
2. To exit Follow Me Mode, simply click the "  " icon on the app interface again or push right joystick, the drone stops following then hovering.
3. The Home point could not be changed when cancel follow me function.


 .Follow me function could not be activated when the drone battery low power.

Waypoint Flight

It is recommended to enlarge the map if you want to use Waypoint. flight.





1. Click the "  " icon on the app interface to enter the Waypoint flight function.
 2. Draw a line on the map to create a path (maximum 20 paths). Click "  " icon, the drone will now fly along the path according to the points connected on the map.
 3. Click the "  " icon to deduct all the path.
 4. Click the "  " icon to navigation.
 5. Click the "  " icon to drone location
 6. The drone could not fly back to the starting point after executing flight path.
 7. If the flight path fails, please select all of path and try again.
- Exit the Waypoint flight mode by clicking the live transmission image .


 .Waypoint flight function could not be activated when the drone battery lower power.

- DO NOT fly the drone towards people, animals, or small/ fine objects (e.g. tree branches and power lines) or transparent objects (e.g. glass or water).
- There may be some deviation between the expected and actual flight path.




Point of Interest (In GPS mode)



1. Click the “” icon on the app interface to enter the Point of Interest function.
2. The drone will flight around the point of interesting point (Radius approx 5m) .
3. To exit Point of Interest mode, simply click the “” icon on the app interface again or push right joystick to any direction.

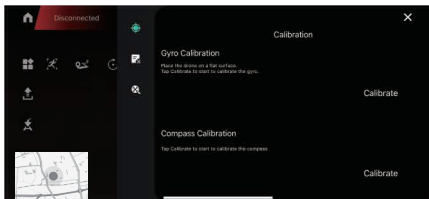
 .Point of interst function could not be activated when the drone battery low power.

Gesture control (In GPS mode / In indoor mode)

1. Keep away 2m from drone and click the “” icon on the app interface to enter the Gesture function.
2.  activate take photo.
3.  activate video /cancel video.

Setting

Tap  to start setting up your drone.



Tap  to calibrate the drone.

Tap  to check the flight logs.

Tap  to check the last recorded location of the drone.



Guangdong Attop Technology Co., Ltd.

Linghai Industry Zone, Laimei Road, Chenghai District, Shantou,
Guangdong, China.

Website: www.attoptoys.com

Customer Service Email : attop@afterservice.vip

30-Day Whole Unit Warranty For Quality-Related Issue

For 30 days after the date of purchase, we take care of all quality-related issues with a REPLACEMENT.

Reminder : Be sure to operate your drone as directed.

90-Day Accessories Warranty For Any Reason

For 90 days after the date of purchase, we take care of all accessories quality-related issues with an ACCESSORY REPLACEMENT.

Reminder: Be sure to maintain your drone as directed.