

User Manual

2.4G WiFi video transmitter module

I . Product Pictures

A: Camera for Drone



B: Camera Module for Drone

1: 300,000 pixels camera module

① 22X33 Camera Module

Model: : HT-2233611 / HT2233621



② 18X33 Camera Module

Model: HT-1833611 / HT1833621



II : Features

1: having high resolution 1/6"CMOS and Wide angle lens 50°/88°, pictures very clear,
Wide viewing angle


- 2:WIFI real-time transfer 640 × 480 HD images, operation distance ranging 80m/100m;
- 3: Phones and tablet terminals can operate drone without any delay, operation distance arrive 80m/100m;
- 4: Support one press photo taking and video recording, and saving in mobile;
- 5: Support viewing photos and video on mobile, and sharing with friends circle;
- 6: Support image display and operation for Android and IOS mobile or pad;
- 7: Operation functions including Gravity sensor, speed selection, storage, display/hide operation desk, Correction, image flip, photos, video, roll, lighting, speedy rotation, hover, 3D image, set height, headless mode, one press course reversal, WIFI signal, one press down, Left and right turn, **accelerator**, Left and right fly, forward/backward, Left and right turn Fine tuning, Left and right fly Fine tuning, forward/backward Fine tuning,
- 8: Comprehensive and humanized App design, including operation instructions, flight control operations, operations setting which is convenient for customer.

III Specifications

Name	Specifications
Camera Module	
Main control chip	FH8610
Image Sensor	1/6"CMOS
Effective Pixels	640 (H) ×480 (V)
Video Frame Rate	VGA/25fps
White Balance	Auto tacking WB
Lense	88°/50°
Video Encoding	H.264/ MJPEG
OS	android IOS
Storage	Video, image files
WIFI module	
WIFI Capability	Support WIFI AP, Mobile, Pad connection
WIFI Chip	88W8801

Frequency	2.4-2.4835GHz
Band	Could set one of 13 frequency bands
Sensitivity	≤-22db
EVM	≤-28db
Antenna Type	On-board Antenna
Transfer distance	60-80m
General Specifications	
Power	DC 3.2-5.5V
Working Current	≤250mA
Power consumption	≤1.5W
Dimension	22×33MM/18×33MM/18×18MM
Working Temperature	-10℃～50℃
Working Humidity	0% ～ 90% non- condensation

IV Install App

Please scan the related QR code to download APP(search HN-UFO  from APP store)



IOS



Google Play(Android)




360 APP Market (Android)

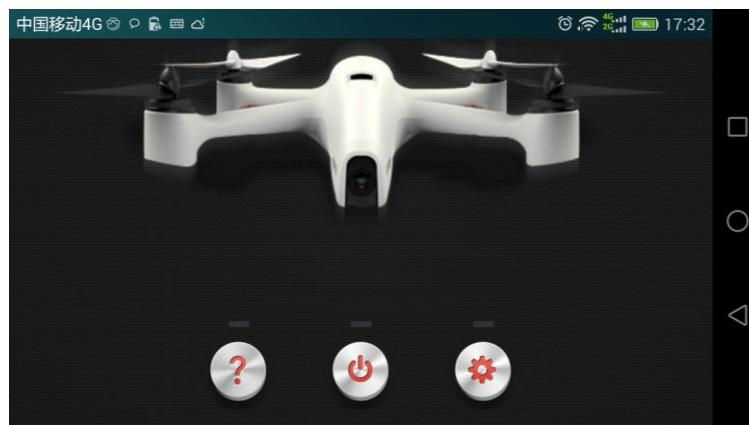
V Adding device

Power ON the device, please check whether WIFI is connected with hotspot“FH8610****”, if not, please connect WIFI to this hotspot, password is bank.




VI App Functions

Click “HM-UFO”  from mobile, it will go to the following page:



1: Operation Instruction

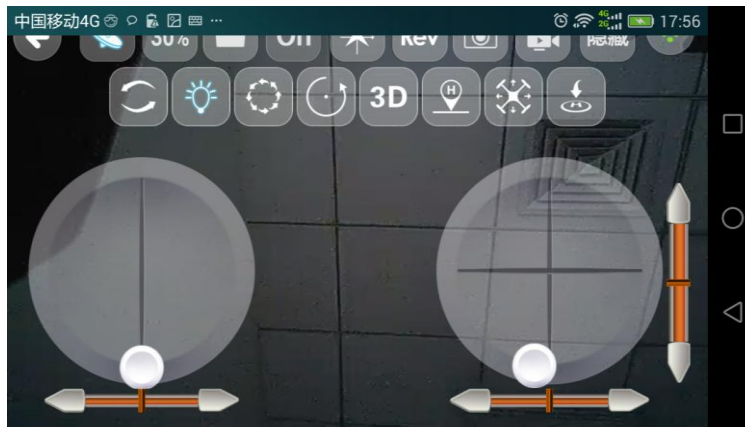
Click “” on the first page, goes to the following page:




Please refer to this picture for detailed operation instructions, including 1-31 functions instructions.

2: Operation Interface

Click “”, goes to this page:




1: Gravity sensor model

Click  on operation interface to enter Gravity Sensor model. This mode uses the principle of gravity acceleration to detect unexpected issues, can meet or exceed the level of seismic state without electricity when falling,

At the falling moment, seismic levels can meet or even exceed no electricity model, which could fundamentally ensure the seismic levels when flying, then ensure the data security in any states.

2: Speed Selection

Click , select speed as 30%、60% or 100%

2: Storage

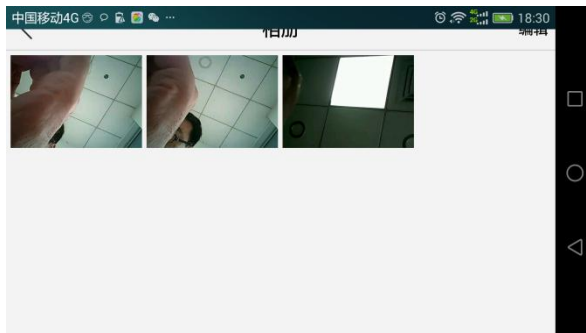
Click , enter Photo/video page;



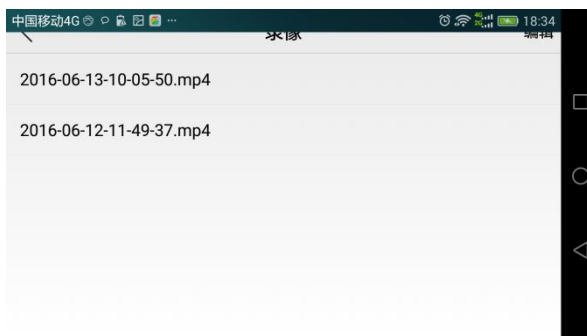
Then Click “Mobile storage”, goes to below page:



Click “taking photos” symbol, goes to album, can review, take photo, or click edit to delete take photo;



Click “Taking video: symbol, goes to video recording, could select certain video to view, share with others or delete



Note: SD video recording is not supported right now.

4: Display/Hide operation page

Click On or Off, then control interface changes to display/Hide accordingly.




On




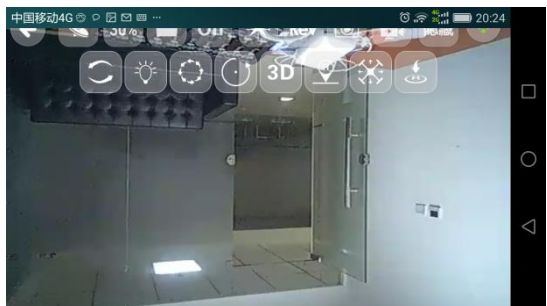
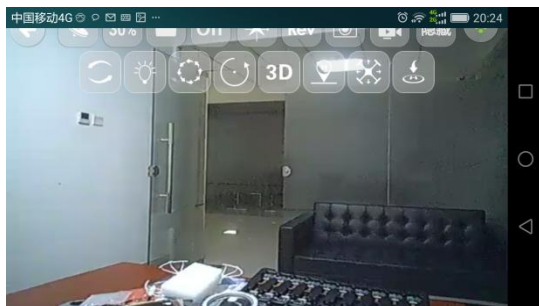
Off

5: Correction


Click , can do photographed image/video geometric correction for drone to reduce image/video distortion.

6: Image Flip


Click  to do image flip.

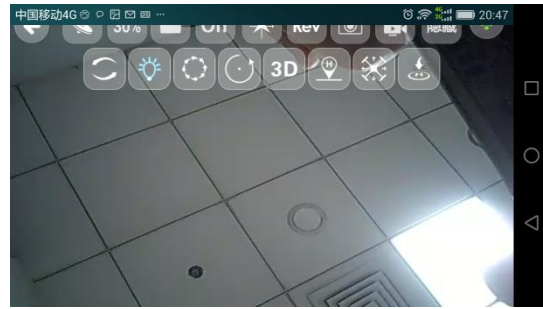
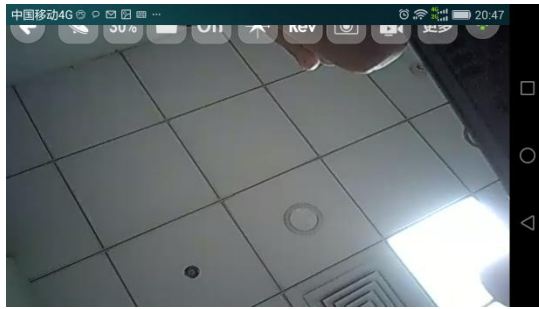


7: Click  to take photos.

8: Click  to take video.

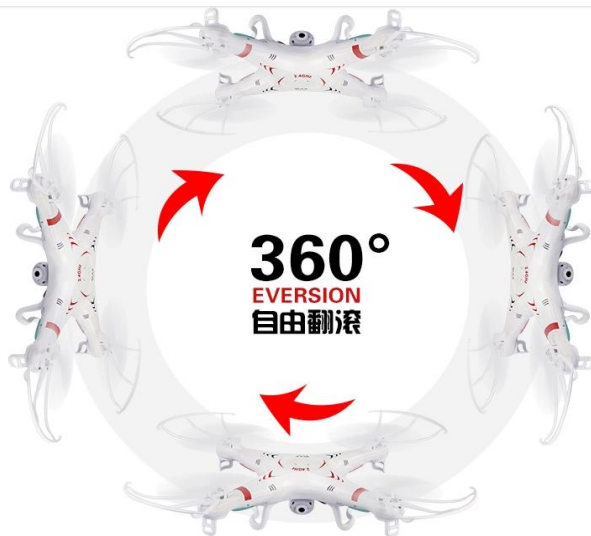
9: Display/Hide more options

Click , more function icons will display.




10: Roll

Click , to achieve 360° air roll for drone




11: Light


Click , to on/off lights of drone, could fly at night



12: Speedy Rotation


Click , drone enter high speed rotation status

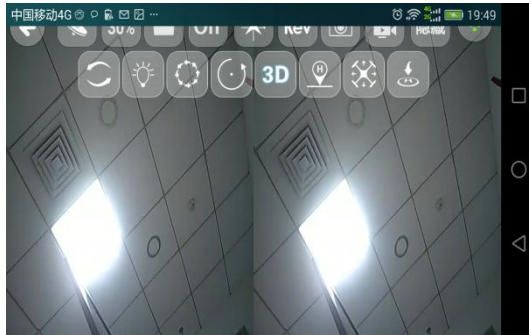
13: Hover

Click , Drone could fly along the spiral orbit to monitor/taking photos/videos for


certain areas

14: 3D Image


Click  to watch 3D image effect by wearing 3D glasses.




15: Set Height

Click  to achieve set height operation, which is easier for beginner, and avoiding improper crash.

16: Headless Mode

Click , no matter how rotating the drone is, when you let it go ahead, it will fly away.

17: One press course reversal

Click , correct gyroscopes via the accelerometer in drone and Accelerometer use force decomposition principle, through dealing with gravity sensor, GPS sensor data, the drone can realize one press course reversal function to avoiding losing in vain.

18: Wifi signal

 indicate Signal strength

19,20: Left and right turn

Adjust left side gray round button to right/left to let drone turn right/left



21: Accelerator

Adjust left side gray round button to Up/Down to control accelerator, see the above picture.

22,23: Left and right fly

Adjust right side gray round button to right/left to let drone to flight right/left



24,25 Forward/Backward

Adjust left side gray round button to Up/Down to keep drone Forward/Backward, please see the above pictures.

26,27 Left and right turn Fine tuning

Adjust left side orange cylindrical button to right/left to achieve Left and right turn Fine tuning



28,29 Left and right fly Fine tuning

Adjust right side orange cylindrical button to right/left to achieve Left and right fly Fine tuning



30,31 Forward/Backward Fine Tuning

Adjust right side orange cylindrical button to Up/Down to achieve Forward/Backward Fine Tuning



NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Attention: Limited Modular Approval - this RF Module may not be sold to the generic public and requires professional installation.

Due to the fact that this RF Module is not equipped with an own shielding, the end-product incl. this RF Module has to show compliance to the FCC rules (15C / radiated emissions).

(OEM) Integrator has to assure compliance of the entire end-product incl. the integrated RF Module. Additional measurements (15C) and/or equipment authorizations (e.g either a complete new certification or a Class II Permissive Change) may need to be addressed depending on co-location or simultaneous transmission issues if applicable.

Integrator is reminded to assure that these installation instructions will not be made available to the end-user of the final host device.

the Integrator will be responsible to satisfy SAR/ RF Exposure requirements, when the module integrated into any (portable, mobile, fixed) host device.

The final host device, into which this RF Module is integrated" has to be labelled with an auxilliary lable stating the FCC ID of the RF Module, such as "Contains FCC ID: 2AJK7HT-2233611".