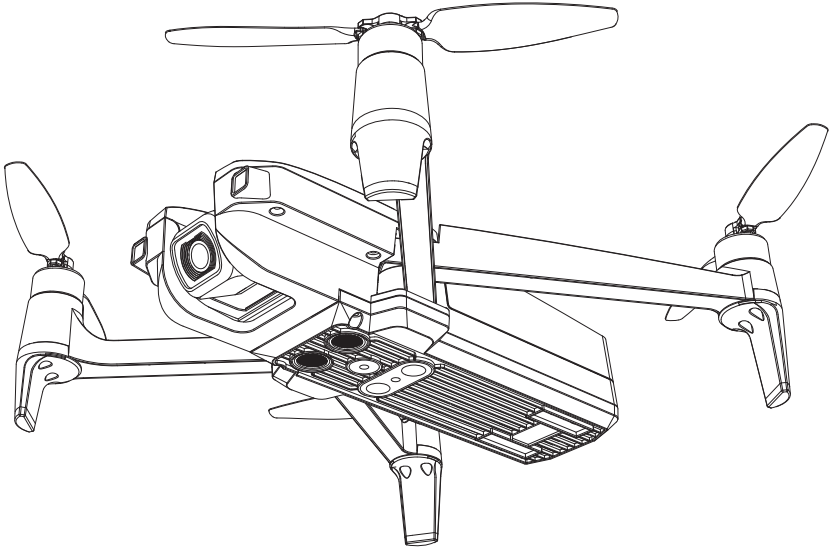
MEW4-1

User Manual



MEW4

2K 2048 x 1152

5G WiFi

Farther.Faster.Clearer

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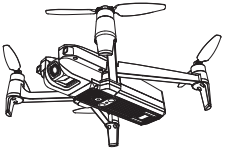
Product Profile

This section mainly introduces functions and installation guidelines of MEW4-1 and lists the components of the aircraft and remote controller.



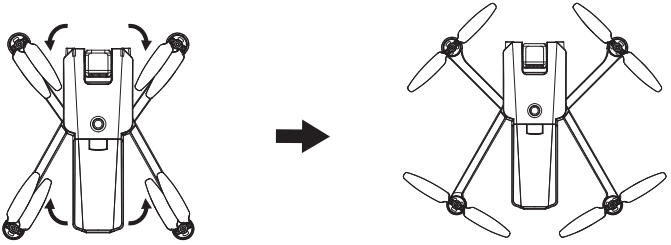
Introduction

- Equipped with Vision System and GPS System, your MEW4-1 can precisely position, hover and automatically return. It is also capable of flying in the intelligent flight modes like Point of Interest, Follow Me and Waypoint Flight. Features a single-axis gimbal, your MEW4-1 can shoot 2K, 2-megapixel photos and adjust camera angle 90 degrees in flight.
- The aircraft and camera can easily be controlled using the onboard buttons. Real-time images and aircraft data information can be shown on the “X-DRONE” APP. Foldable hand sticks and pull-out holder design make the remote controller easier to operate and carry.

Prepare Your MEW4-1

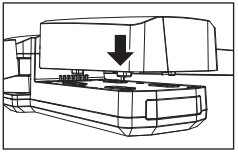
Unfold the aircraft

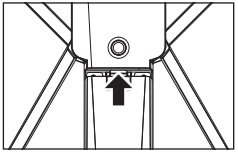
The aircraft is folded inside the package. Please unfold the aircraft before use.



Battery installation

Step 1. Insert the battery into socket at the top of the aircraft (Pic. 1);
Step 2. Slide the battery into the compartment by pushing with appropriate force. Make sure that you hear a click sound indicating the battery is firmly installed (Pic. 2).


Pic. 1

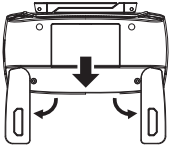

Pic. 2

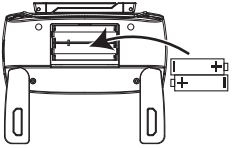
⚠ Attention: The battery should be installed firmly, failure to do so may affect the flight safety of your aircraft. The aircraft may crash due to power-cut during the flight.

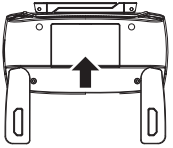
Prepare the Remote Controller

Install the battery of remote controller

Step 1: Unfold the hand sticks and open the battery door (Pic. 1);
Step 2: Install 2*AA batteries into the battery compartment according to the given polarity (Pic. 2);
Step 3: Close the battery compartment (Pic. 3).

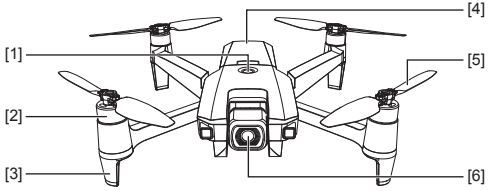

Pic. 1


Pic. 2


Pic. 3

⚠
- Insert batteries with correct polarity.
- Non rechargeable batteries are not to be charged; the transmitter need 2*AA batteries for work.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.
- Rechargeable batteries are to be removed from the aircraft before being charged.
- Rechargeable batteries are only to be charged under adult supervision.
- Exhausted batteries are to be removed from the aircraft.
- The supply terminals are not to be short-circuited.

Major Parts & Functional Switch



[1] Power switch

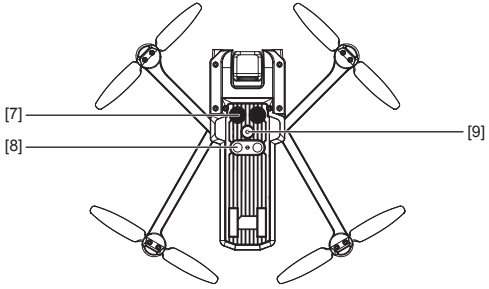
[2] Brushless motor

[3] Undercarriage

[4] Battery

[5] Propeller

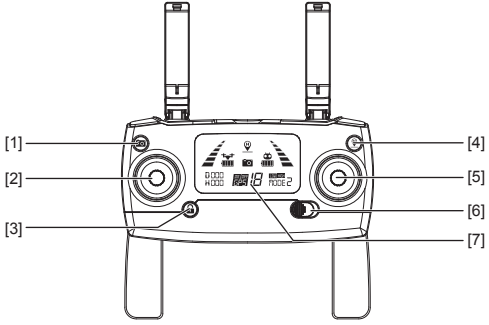
[6] Camera



[7] Ultrasonic sensor

[8] Bottom lights

[9] Vision positioning lens



[1] Photo/Video

[2] Left stick

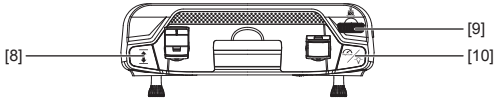
[3] One-key unlock/lock

[4] One-key RTH

[5] Right stick

[6] Power switch

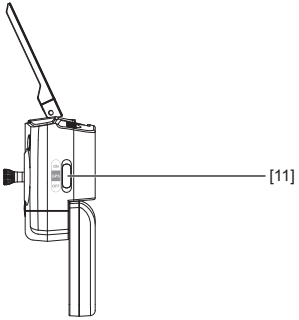
[7] LCD display



[8] One-key takeoff/ one-key landing

[9] Gimbal trimmer

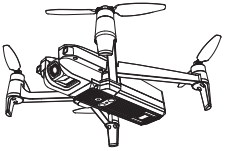
[10] Light switch (short-press); High/Low speed switch (long-press)



[11] GPS/Gesture mode switch

Aircraft

This section introduces functions and features of the MEW4-1.



Flight Modes

Your MEW4-1 has 3 flights modes:

GPS mode: ON

Slide the button up at the right side to position “ON” (Pic.1), the aircraft is in GPS mode and can precisely position and hover by the assistance of the GPS module.

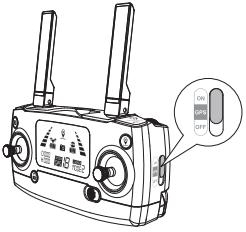
Warm tips: When the GPS signal is weak, the aircraft will automatically enter into Gesture mode (flying altitude ≥ 3 meters) or vision positioning mode (flying altitude < 3 meters).

Gesture mode: OFF

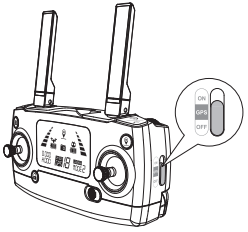
Slide the button down to “OFF” (Pic. 2), the aircraft is in Gesture mode that GPS is not used for positioning, and the aircraft only uses the barometer to maintain altitude. The aircraft will not fly with precise positioning and hovering. Gesture mode requests pilot with good skill. In Gesture Mode, the aircraft cannot position itself or brake automatically, which increases the risk of potential flight hazards. The aircraft will be also more easily affected by its surroundings. Environmental factors such as wind can result in horizontal shifting, which may present hazards, especially when flying in confined spaces.

Vision positioning mode:

Once the GPS signal is weak or unavailable and the flying altitude is less than 3 meters, the aircraft will automatically enter into vision positioning mode. Assisted by the vision system, the aircraft could perform precise positioning.

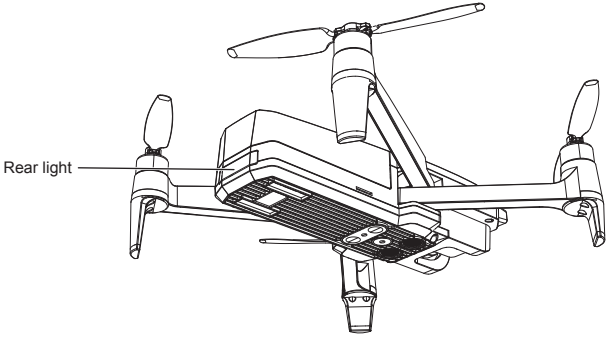


Pic. 1



Pic. 2

Aircraft Status Indicator Lights



Aircraft status indicator

No.	Indicator status	Meanings
1	Rear light flashes yellow rapidly.	Aircraft 2.4GHz disconnected.
2	Rear light flashes red, green and yellow alternatively.	Aircraft is in initialization detection status.
3	Rear light glows solid yellow.	No GPS signal, aircraft is in gesture mode.
4	Rear light glows solid green.	Good GPS signal, aircraft is preparing for GPS mode.
5	Rear light flashes green rapidly.	Aircraft is in gyroscope calibration status.
6	Rear light flashes yellow slowly.	Aircraft is in compass horizontal calibration.
7	Rear light flashes green slowly.	Aircraft is in compass vertical calibration.
8	Rear light flashes red slowly.	Aircraft is nearly low voltage, 1/6 battery level left.
9	Rear light flashes red rapidly.	Aircraft is in low voltage, only 1/8 voltage left.
10	Rear light flashes red five times rapidly.	Something wrong with ultrasonic altitude hold data and the aircraft is in barometer altitude hold.
11	Rear light flashes red once, stop for 1.5 second.	Something wrong with the gyroscope.
12	Rear light flashes red twice, stop for 1.5 second.	Something wrong with the barometer.

No.	Indicator status	Meanings
13	Rear light flashes red three times, stop for 1.5 second.	Something wrong with the compass.
14	Rear light flashes red four times, stop for 1.5 second.	Something wrong with the GPS module.
15	Rear light flashes red five times, stop for 1.5 second.	Something wrong with the ultrasonic module.
16	Rear light flashes red six times, stop for 1.5 second.	Something wrong with the vision positioning module.

Return to Home (RTH)

The Return-to-Home (RTH) function brings the aircraft back to the last recorded Home Point. There are 3 types of RTH: smart RTH, low battery RTH and failsafe RTH. This section describes these 3 scenarios in detail.

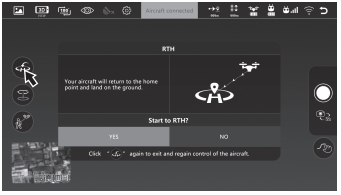
	GPS	Description
Home Point	GPS 7	If a strong GPS signal (satellites over 7) was acquired before takeoff, the Home Point is the location from which the aircraft launched. The GPS signal strength is indicated by the GPS icon (GPS 7). The aircraft rear indicator lights will blink rapidly from yellow color to green color when the home point is recorded.

- Aircraft can not avoid obstacles when it is flying back with the RTH function initiated.
- Aircraft can not return to the Home Point when the GPS signal is weak or unavailable.
- Aircraft will stop ascending and immediately return to the Home Point if user moves the throttle stick in the aircraft reaches 15 meters altitudes or beyond during Smart RTH.
- If there is no GPS signal and the remote controller signal lost for more than 6 seconds, the aircraft can not Return-to-Home but descend slowly until land to the ground and lock the aircraft.

Smart RTH

When the GPS signal is available (more than 7 satellites is presented), use the RTH button on the remote controller (Pic. 1) or tap the RTH button in the “X-DRONE” APP (Pic. 2) and then follow the on-screen instructions to initiate Smart RTH. During the smart RTH, you can use the remote controller to guide the aircraft around obstacles. You can press the RTH button again to exit RTH procedure and regain control of the aircraft.

Pic. 1



Pic. 2

Low Battery RTH

The low battery level failsafe is triggered when the intelligent battery is depleted to a point that may affect the safe return of the aircraft. Users are advised to return home or land the aircraft immediately when prompted.

1. When the aircraft rear lights flash slowly, battery icon " " is shown on the remote controller or on the "X-DRONE" APP. And steady "beep beep beep... beep beep beep" sound is heard. At this moment, the aircraft will automatically return to the Home Point if the flying altitude is beyond 50 meters or the flying distance against the home point is beyond 100 meters.
2. When the aircraft rear lights flash slowly, battery icon " " is shown on the remote controller or on the "X-DRONE" APP. And steady "beep..beep...beep" sound is heard. At this moment, the aircraft will automatically return to the Home Point if the flying altitude is beyond 15 meters or the flying distance against the home point is beyond 15 meters. If the aircraft flying altitude is less than 15 meters or the flying distance is less than 15 meters, the aircraft will automatically land to the ground.

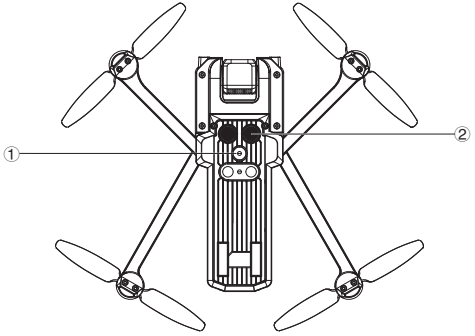
⚠ Attention: When the aircraft is automatically return home with Low Battery RTH function activated, you can not cancel the RTH procedure by pressing the RTH button to regain control of the aircraft.

Failsafe RTH

If the Home Point was successfully recorded and the compass is functioning normally, Failsafe RTH will be automatically activated if the remote controller signal is lost beyond 6 seconds. Return-to-Home can be cancelled by the pilot, allowing them to regain control when the remote controller signal connection is re-established.

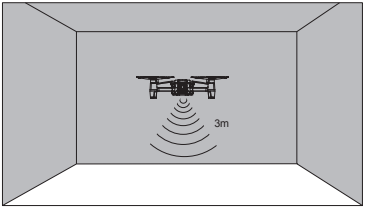
Vision System

Consisted by camera ① and ultrasonic sensor ②, the Vision System locates at front bottom of your MEW4-1. It is a positioning system that is composed by image sensor and ultrasonic sensor. Your MEW4-1 acquires its location through using the camera sensor to detect the ground texture and visible features. Meanwhile, assisted by the ultrasonic sensor, your MEW4-1 could determine the altitude where it stays, which could better insure the fly safety and gain precise positioning.



Vision Positioning System function

The Vision Positioning System is typically used in indoor environment when GPS is weak or unavailable. It works best when the aircraft altitude is less than 3 meters.



⚠ The precision of the vision system is easily affected by the light strength and features of the surface textures. It would happen that the ultrasonic sensor could work normally to detect the altitude when it is flying over objects that is made by sound-absorbing materials. Once the image sensor and ultrasonic sensor are both not available, your aircraft will switch to Gesture mode automatically. Be cautious to operate the aircraft in the following situation:

1. Fly fast at an altitude below 0.5m.
2. Fly over monochrome surfaces (like pure black, pure red, pure red and pure green).
3. Fly over strong light reflective surfaces or surfaces prone to reflection.
4. Fly over water or transparent object surfaces.
5. Fly over moving object surfaces (such as crowds, swaying juggles and glass).
6. Fly over an area where light changes dramatically and rapidly.
7. Fly over surfaces extremely dark (lux<10) or extremely bright (lux>10,000).
8. Fly over material surfaces that is good at absorbing ultrasonic waves (like thick carpet).
9. Fly over surfaces without clear textures.
10. Fly over surfaces with highly repeating textures (small grid brick in the same color).
11. Fly over surfaces that are tilting over 30 degrees (could not receive the echo of the ultrasonic wave).
12. Flying speed should be controlled not to be too fast. When the aircraft is 1 meter against the ground, the flying speed should not be over 5m/s; When the aircraft is 2 meter against the ground, the flying speed should not be over 14m/s.

- Keep sensors clean at all times.
- The vision system is only effective when the aircraft is within the altitude range of 3 meters.
- Make sure that the light is bright enough and the surfaces is with clear textures so that the vision system can acquire the movement information through recognizing the ground textures.
- The vision system may not function properly when the aircraft is flying over water, low light ground and surfaces without clear patterns or textures.
- Do not use other ultrasonic device with a frequency of 40KHz when the vision system is in operation.

⚠ Attention: Keep animals away from the aircraft when the vision system is activated. The ultrasonic sensor emits high frequency sounds that are audible to some animals.

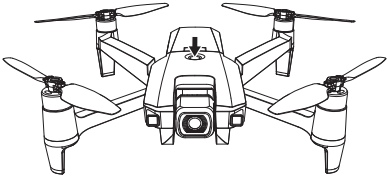
Aircraft Power Switch

Turn on the aircraft

Once battery is installed firmly, press on the power switch for 3 seconds, the aircraft makes beep sounds and the rear light keeps flashing.

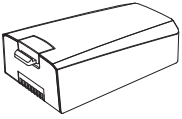
Turn off the aircraft

Press on the power switch for 3 seconds, the aircraft light goes off and the MEW4-1 turns off.

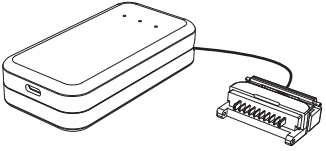


Aircraft Battery

- Made by high-energy battery cells;
- Standard battery capacity is 7.6V 2050mAh.



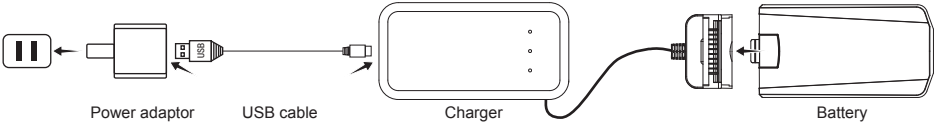
Aircraft battery



Charger

Charge the aircraft battery

- The aircraft's battery needs to be fully charged before every flight;
- Please use the original default charging device for this aircraft;
- Full Charging time takes about 3-5 hours.



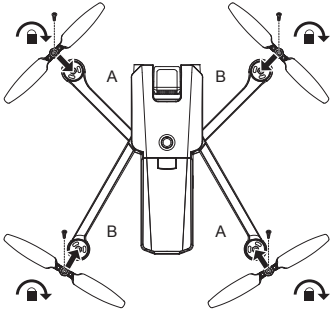
Power adaptor (not included) | USB cable | Charger | Battery

- Need adult supervision when this aircraft is being played by children.
- Only batteries of the same or equivalent type as recommended are to be used.
- Insert batteries with correct polarity.
- Rechargeable batteries are to be removed from the aircraft before being charged.
- Rechargeable batteries are only to be charged under adult supervision.
- Exhausted batteries are to be removed from the aircraft.
- The supply terminals are not to be short-circuited.
- The charging line to be used with the product should be regularly examined for potential hazard, such as damage to the cable or cord, plug, enclosure of other parts and that in the event of such damage, the product must not be used until that damage had been properly removed.

Attach and Detach the Propellers

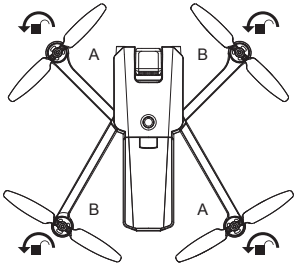
Attach the propellers

Install propeller A and propeller B on the corresponding motor shaft and fix the propellers screws tightly by rotating clockwise. (A/B mark are at the bottom of the propeller.)



Detach the propellers

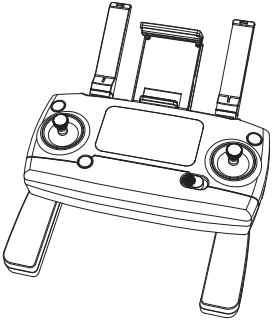
Take out the screws by rotating counter-clockwise and then remove the propellers.



- Please make sure that the clockwise and the counter-clockwise propellers are installed on the correct motors, because the aircraft will not fly normally for wrong propellers installation.
- Be aware of the sharp edges of the propellers. Handle with care.
- Use only original default propellers. ***DO NOT*** mix propeller types.
- Stand clear of the motors and ***DO NOT*** touch the propellers when they are spinning.
- Check that the propellers and motors are installed correctly and firmly before every flight.
- Ensure that all propellers are in good condition before each flight. ***DO NOT*** use aged, chipped, or broken propellers.
- To avoid injury, ***STAND CLEAR*** of and ***DO NOT*** touch propellers or motors when they are spinning.
- ***ONLY*** use original default propellers for a better and safe flight experience.

Remote Controller

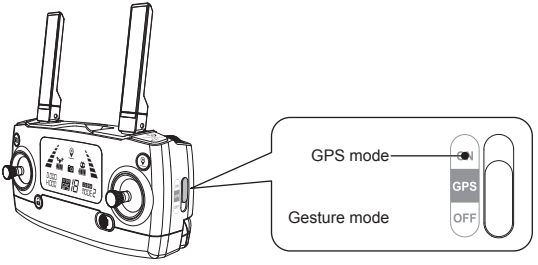
This section describes the features of the remote controller, including the instruction on controlling the MEW4-1.



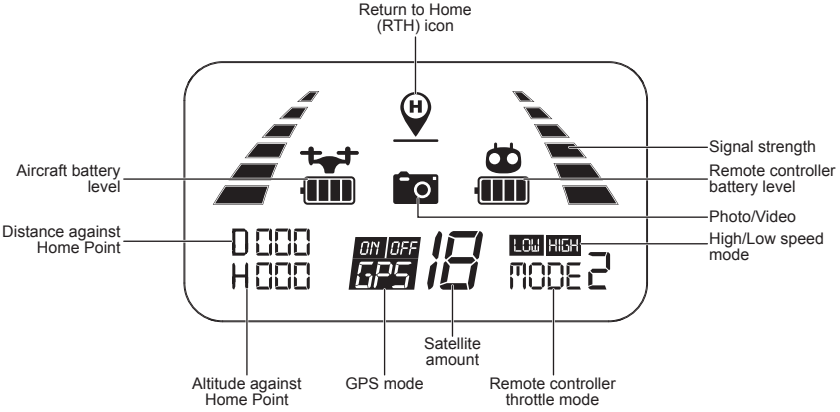
Remote Controller Functions and Status

Flight mode switch

Choose the flight mode by switching the GPS button to ON/OFF position. The on-working flight mode " ON OFF GPS " is shown on the LCD display.



LCD Screen display

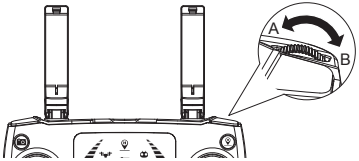


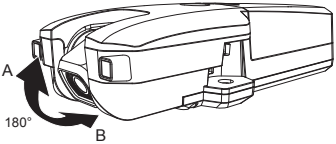
Aircraft status indicator

No.	Remote controller status	Description
1	Signal strength indicator changes circularly from weak to strong.	The remote controller is under signal connection status.
2	Indicator lights flash slowly with steady “beep beep... beep beep” sound and the battery legend “” on LCD display flashing.	The remote controller is in low voltage status. Please change a full charged battery.
3	Battery legend “” on LCD display is as shown, with steady “beep beep beep...beep beep beep” sound.	Battery is running out “”; the aircraft will return when the altitude is over 50m or the distance is over 100m.
4	Battery legend “” on LCD display is as shown, with steady long beep sound.	Battery is low “” ; the aircraft will return when the altitude is over 15m or the distance is over 15m; if either the flying altitude or flying distance is less than 15m, the aircraft will land to the spot.
5	Signal strength on LCD display is less than two grids or no displaying, with steady long beep sound.	1. The distance between aircraft and remote controller is so long that the signal is weak. 2. The battery is removed after the aircraft connects to the remote controller.

Gimbal trimmer

The camera angle can be adjusted within a 180 degree range by operating the gimbal trimmer to obtain a better aerial experience. When scroll up the gimbal trimmer (upward to direction of “A”), the camera will tilt upward to the direction of A; when scroll down the gimbal trimmer (downward to direction of “B”), the camera will tilt downward to the direction of B.

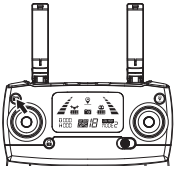




The camera can be rotated by 180 degrees.

Photo/Video

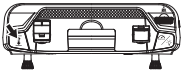
Short-press the button indicated as below, the camera icon “ ” on the LCD screen flashes once, the camera takes one photo;
Long-press the same button, the video icon “ ” on the LCD screen flashes slowly, the camera is taking video. Long-press again will exit shooting.



⚠ Attention: When the aircraft is not inserted with TF card or the TF card is malfunction, photos and videos taking can not be done by pressing the button of the remote controller, but by the icon on the APP interface.

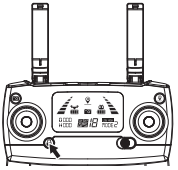
One-key takeoff/landing

- After the MEW4-1 unlocked, short-press the “ ” button (indicated as below), the aircraft will automatically take off and hover at 1.5m altitude.
- When the aircraft is flying, short-press the “ ” button (indicated as below), the aircraft will automatically land on the ground.



Emergency stop

Press the "🔒" button for 3 seconds to stop the flight urgently ***ONLY*** when the aircraft encounters emergency, or the aircraft will drop down or be crashed.

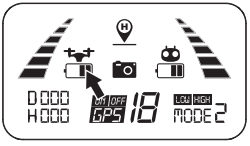


Smart RTH button

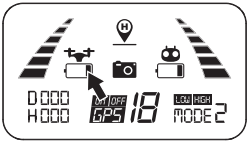
- Press the button to start the RTH, the remote controller makes a beep sound and the aircraft will fly back to the recorded Home Point.
- Press the RTH button again to exit RTH procedure and regain control of the aircraft.
- For more information about RTH, please turn to Return to Home section.

Low battery warning

- When the battery icon "" is shown on the LCD screen (Pic. 1) with steady "beep beep beep...beep beep beep" sound, it means that the aircraft battery is nearly low voltage. At this time, the aircraft rear light flashes red slowly. **The aircraft will perform smart RTH when the altitude is over 50m or the distance is over 100m.**
- When the battery icon "" is shown on the LCD screen (Pic. 2) with steady "beep ...beep" sound, it means that the aircraft battery is in low voltage. At this time, the aircraft rear light flashes red rapidly. **The aircraft will return when the altitude is over 15m or the distance is over 15m; if either the flying altitude or flying distance is less than 15m, the aircraft will land to the ground.**



Pic. 1

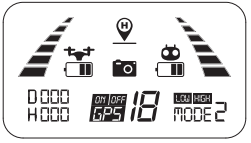


Pic. 2

Signal strength indicator

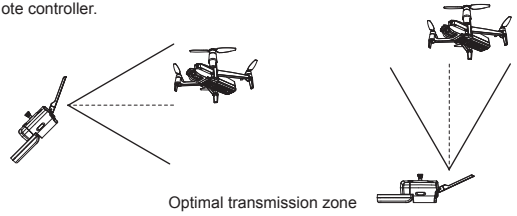
- Signal strength bar "" shows the strength of the received signal. The more, the better.
- When the strength bar "" changes from weak to strong circularly, it means that the remote controller is under signal connection status.

● There are 2 situations that the strength bar " " is less than 2 grids or no displaying with steady long beep sounds.
1) The distance between the aircraft and the remote controller is too far causing a weak signal.
2) The battery is removed after the aircraft connects to the remote controller.



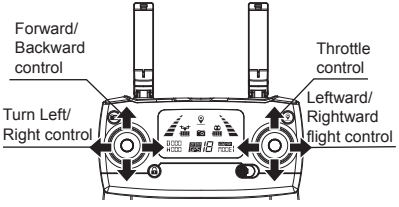
Optimal transmission zone

To obtain a satisfied flight experience, please make sure that your MEW4-1 is flying ahead of the remote controller and no obstacles between the aircraft and the remote controller.

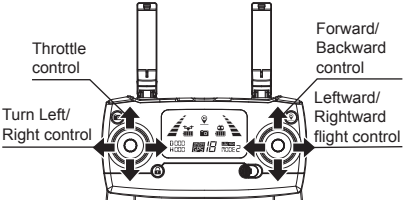


Throttle Control Stick Mode

Throttle mode switch



Mode 1



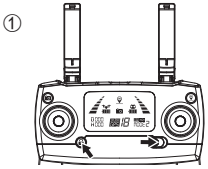
Mode 2

Mode 1: The right stick serves as the throttle.
Mode 2: The left stick serves as the throttle.

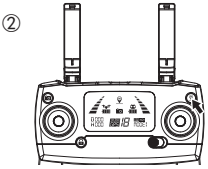
● The remote controller is set at Mode 2 by default.

How to change throttle mode

Step 1. Keep pressing the red button "🔒" and turn on the remote controller, the remote controller is under signal connection status (Pic. 1);
Step 2. Keep pressing the RTH button "⏻" for 3 seconds to choose the throttle control mode (Pic. 2). The throttle control mode will change according to each press. The mode number is shown on the LCD screen. The throttle control mode is set at mode 2 by default.



Pic. 1

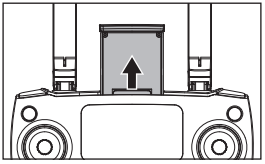


Pic. 2

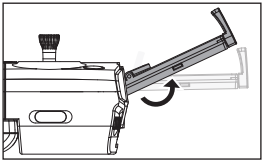
⚠ Attention: To change the stick mode of the remote controller, please make sure that the remote controller is under signal connection status (the indicator light keep flashing). If not, the stick mode could not be changed.

Install the Mobile Phone Holder

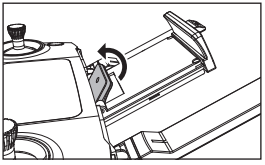
1. Pull out the mobile phone holder upwards completely (Pic. 1);
2. Tilt the holder 30 degrees towards you and then you will hear a click sound (Pic. 2);
3. Rotate and fix the support board in place (Pic. 3);
4. Adjust the mobile phone holder upward or downward according to the size of your mobile phone (Pic. 4).



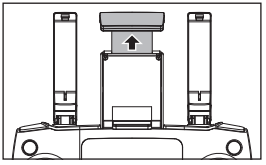
Pic. 1



Pic. 2



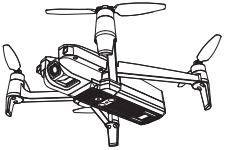
Pic. 3



Pic. 4

App Download & Installation

This section introduces how to download the “X-DRONE” APP and connect with mobile device.



FPV Real-time Image Transmission Software “X-DRONE”

Where to download “X-DRONE” APP

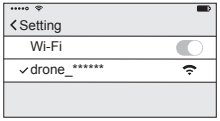
1. For Apple IOS system, please turn to Apple store, search “X-DRONE” or scan the QR code as below to download the software.
2. For Android system, please scan the “Google play” or search “X-DRONE” in “Google play” to download the software.

Available on the App Store

ANDROID APP ON Google play

How to link the “X-DRONE” to the camera

Power on the aircraft, then enter phone settings option. Turn on WiFi, find drone_****** on the list and connect it. When “ ” legend is shown, it means WiFi connecting is successful. Exit settings and tap “X-DRONE” APP at your mobile device, Click “GO” to enter into the real-time image transmission interface.



Connect WIFI

X-DRONE

Tap “X-DRONE” App

Click “GO”

Photos and video saving feature

1. If the camera is without TF card, videos and photos will be saved at the APP.
2. If the camera is with TF card, videos and photos will be saved at the TF card.
3. Videos and photos in the TF card can be downloaded to the APP.

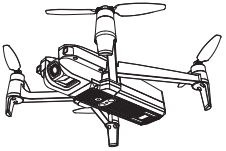
⚠ Attention: Please make sure that your mobile device supports 5G WIFI before linking “X-DRONE” to your device.

2K 2048 x 1152 5G WIFI Farther.Faster.Clearer

Real-time image quality and FPV distance depend on your smart phone and flight environment. To obtain the best live view, please choose a wide open area to fly in.

Flight

This section introduces safe flight requirements and basic aircraft operations.



Flight Environment Requirements

1. Please don't fly in such bad weather conditions as high temperature, snow, strong wind (≥level 5), rain or fog.
2. Always choose a wide open area for every flight. Tall structures and large metal structures may affect the accuracy of the onboard compass and GPS system.
3. Well away from people and property. Never fly directly over people or animals.
4. To minimize interference, please do not fly the aircraft in locations near power lines, base stations, electrical substations and broadcasting towers.
5. Aircraft and battery performance is subject to environment factors like temperature. Be very careful when flying over 6KM above sea level since the performance will be affected.
6. Your MEW4-1 cannot use GPS within the polar regions.

Flight limits and GEO zones

Abide by all laws and regulations when flying your MEW4-1. Flight limitations are applied by default to help users operate this product safely and legally. Flight limitations include altitude limits, distance limits and GEO Zones.
Altitude limits, distance limits and GEO Zones function concurrently to manage flight safety when operating in GPS Mode.

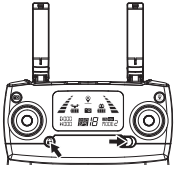
Pre-flight Checklist

1. The aircraft, remote controller and mobile device are full charged;
2. The propellers are installed correctly;
3. The arms and propellers are unfolded;
4. Ensure the camera lens are clean;
5. Use only original default parts. Unauthorized parts or parts not from certified manufacturers may cause malfunction or safety issues.

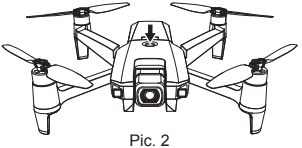
Aircraft Operations

Signal connection between the aircraft and remote controller

- Keep pressing the red button " " and turn on the remote controller (Pic. 1). The remote controller makes 2 beep sounds, and the indicator light " " keeps flashing; the remote controller is under signal connection status.
- Power on the aircraft (Pic. 2). The aircraft will make beep sounds with rear light flashing and will automatically link to the remote controller. Once the remote controller sends out a long beep sound and the indicator light of the remote controller turns from flashing to solid on and the signal icon " " is shown on the LCD screen, it means that signal connection is succeeded.



Pic. 1

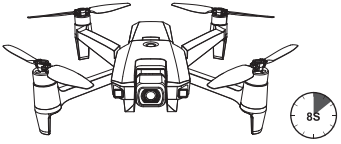


Pic. 2

- Signal connection is done once for all if the remote controller is not linked to other aircraft.
- Set the connection one by one to avoid signal connection error.

Aircraft initialization detection

After signal connection, the aircraft enters into initialization detection procedure with rear light flashing red, green and yellow alternatively. Make sure that the aircraft is set on a flat and still surface for the initialization detection. The aircraft initialization detection takes about 8 seconds. Once the remote controller sends out "Di Di" sounds and the aircraft rear light flashes yellow, initialization detection is completed.



Attention: Make sure that the aircraft is set on a flat and still surface for the initialization detection.

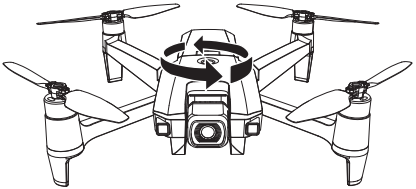
Aircraft compass calibration

1. Compass calibration should be performed after successful aircraft initialization detection.
2. Aircraft compass calibration should be done for every flight. That is to say, if changing new battery or the battery is reinstalled, compass calibration should be done again.

Two steps of compass calibration:

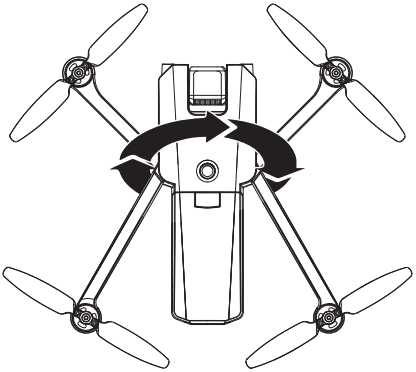
Step 1: Horizontal calibration

After successful aircraft initialization detection, the aircraft rear light flashes yellow. Hold the aircraft horizontally and rotate it 360 degrees along the central axis for about 3 circles. The aircraft rear light will change from flashing yellow to flashing green when horizontal calibration is completed.



Step 2: Vertical calibration

Hold the aircraft with camera facing up, and rotate it 360 degrees along the central axis for about 3 circles until the rear light of the aircraft change from flashing to solid on, the compass calibration is successful.

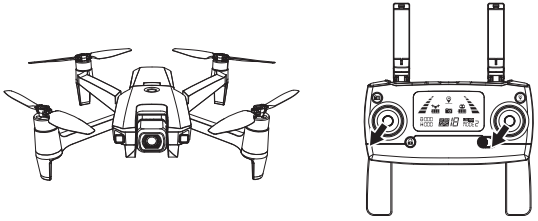


⚠ Attention: To fly at GPS mode, please choose an open and wide space for the flight, and make sure that the satellite amount is over 7.

⚠
- Please do not calibrate the compass in strong magnetic area, such as magnetic field, parking place or construction areas with underground reinforcement.
- Please do not carry magnetic materials with you (such as keys, cell phones, etc) when calibrating compass.
- Please keep away from big metal when calibrating compass.

Gyroscope calibration

When the compass calibration is finished, set the aircraft on flat ground and follow the indication photo as below to calibrate the gyro. Once the aircraft rear light turns from flashing to solid on, it means that the gyro calibration is succeeded.



⚠
- The gyroscope calibration has been done by factory default. Gyroscope calibration is no need to be performed unless the aircraft can not exit the aircraft initialization detection procedure while the aircraft initialization detection is finished.
- Please make sure to set the aircraft on horizontal surface when performing calibration, failure to do this will affect the flight.

How to lock and unlock the aircraft

- Unlock the aircraft

  Short-press the red button "🔒" . The motors rotate and the aircraft is unlocked.
- Lock the aircraft

  There are 2 ways to lock the aircraft that you can find it as below:

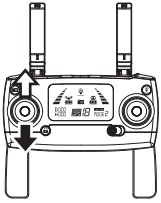
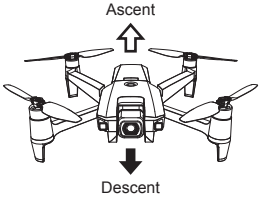
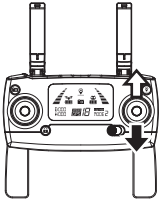
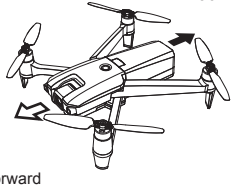
  Method 1: Long-press the red button "🔒" for 3 seconds, the motors will stop rotating immediately and the aircraft is locked.

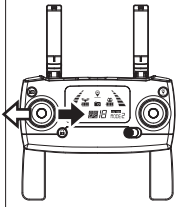
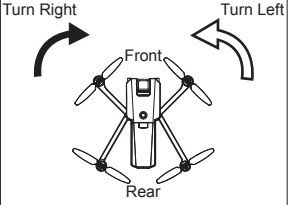
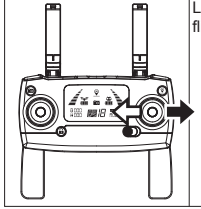
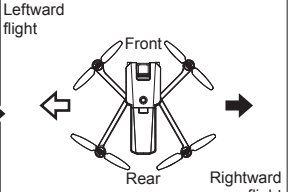
Method 2: After the aircraft lands on the ground, pull down the throttle stick to the bottom position and keep for 3 seconds, the motors will stop rotating and the aircraft is locked.

Warm tips:

- Please do not lock the aircraft by pressing the " 🔒 " button directly during the flight, or the aircraft will be crashed.
- In case that Emergency Stop on the aircraft is needed, please keep pressing the " 🔒 " button for 3 seconds; then the aircraft will stop running and the aircraft will drop down.

Operate the aircraft

Remote controller	Aircraft
	
	

Remote controller	Aircraft
	
	

Test Flight

Basic flight operation steps

1. Place the aircraft in a wide open area that its front is your front.
2. Turn on the aircraft and remote controller.
3. Connect the remote controller with the aircraft and then proceed aircraft initialization detection.
4. Connect the MEW4-1 with your phone and enter into the image transmission interface.
5. Unlock the aircraft after the gyro detection of the aircraft is completed.
6. Pull up the throttle stick then the aircraft takes off, and control the aircraft flight by left/right stick.
7. Pull down the throttle stick to land the aircraft.
8. Pull down the throttle stick to the bottom position and keep for 3 seconds to lock the aircraft.
9. Pull out the battery from the aircraft and then turn off the remote controller.

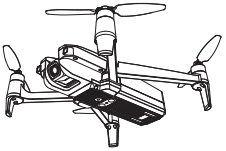
Video suggestion and tips

1. Do pre-flight checklist;
2. Choose appropriate gimbal shooting angle;
3. Fly in a good weather with no wind;
4. Perform test flights to establish flight routes and to preview scenes;
5. Push the control stick gently to keep the aircraft movement smooth and stable.

Please bear proper operation and flight safety guidelines in mind as it is very important for all of us.

For more information, please turn to Appendix.

Appendix



Product Parameters

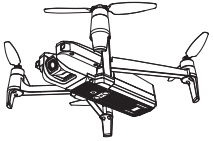
Aircraft	
Gross Weight (Battery and propellers included)	MEW4-1: about 360g
Dimensions	Folded: 230*70*65mm (length*width*height) Unfolded: 305*320*65mm (length*width*height)
Diagonal	240mm
Max Ascent Speed	3m/s
Max Descent Speed	2m/s
Max Speed	36km/h
Flight Height Limitation	150m
Max Flight Time	15-16 minutes (no wind)
Max Wind Speed Resistance	≤Level 3
Max Tilt Angle	35°
Max Angular Velocity	200°/s
Operating Temperature Range	0℃-40℃
GNSS	GPS
Hovering Accuracy Range	Indoor: Vertical ±0.3m Horizontal ±0.3m Outdoor: Vertical ±0.5m Horizontal ±1.5m

Operating Frequency	2.4-2.4835GHz 5.15-5.35GHz
Transmission Power (EIRP)	2.4GHZ≤20dBm 5GHz≤16dBm
Gimbal	
Controllable Range	Tilt: -90° to 90°
Camera	
Image Sensor	1/3 " CMOS; Effective Pixel: 2 million
Lens	FOV: approx. 110° Aperture: f/2.2 Shooting Range: 1m to ∞
ISO Range	Photo: 100-1600 (Auto) Video: 100-1600 (Auto)
Electronic Shutter Speed	Electronic Shutter: 1/30s-1/10000s
Still Image Size	2048X1152
Still Photography Modes	Single Shot
Video Resolution	2K: 2048X1152
Color Mode	RGB Mode
Max Video Bitrate	Video 8Mbit/Transmission 2Mbit
Supported File System	FAT32
Photo Format	JPEG Format
Video Format	MP4, Compressed Format H.264
SD Cards	Support Class 10 Micro SD card up to 32G. ≥ Class 10 Micro SD Cards
Operating Temperature	0˚C-40˚C
Remote Controller	
Operating Frequency	2.4-2.4835GHz
Max Transmission Distance	0.6km
Operating Temperature	0˚C-40˚C
Battery	2* AA
Transmission Power (EIRP)	2.4GHz≤20dBm
Operating Current/Voltage	200mA@3V

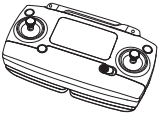
Charger	
Input	5V 2A
Charging Voltage	3.8V 2A
Rated Power	7.6W
Aircraft Battery	
Capacity	2050mAh
Voltage	7.6V
Battery Type	LiPo 2S
Energy	15.58Wh
Net Weight	about 98g
Charging Temperature Range	5˚C-40˚C
Charging Time	3-5 hours (depends on the adaptor specification)
APP	
APP Name	X-DRONE
Image Transmission System	WIFI 5GHz
Real-time Image Transmission	720p@20fps
Latency	300-400ms
Required Operating System	iOS 9.0 or later Android4.4 or later

Packing Detail

Full package includes the following parts.

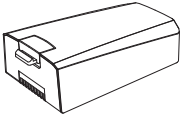


Aircraft *1

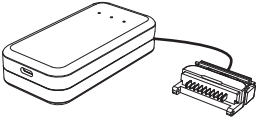


Remote Controller *1

Extra Propellers Set *1

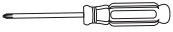


Aircraft Battery *1



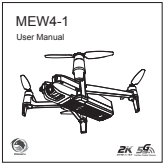
Charger *1

USB Cable *1



Screwdriver *1

Quick Start *1



User Manual *1

Important Statement

- This aircraft is not a toy, but hobby grade model. It should be assembled and operated properly. Pilot must operate this aircraft in safe way. Improper operation may cause injury or property damage.
- This aircraft is applicable for pilots aged 14+ who are with skilled flying experience.
- Users are in full charge of proper operating this aircraft. Manufacturer and dealers disclaim any responsibility for damages caused by misuse.
- Keep the small accessories away from kids to avoid accident.

Flight Safety Guidelines

Hobby grade radio control aircraft is somewhat considered to be the highest danger potential article. Users should firmly uphold the principle of “safety comes first”. Never fly the aircraft near airports, above crowds or in zones storing dangerous goods and understand the responsibility of the accident may cause by improper operations.

● Stay away from obstacles, crowds, power lines, trees or waters

Always choose a wide open area for every flight, well away from people and property. Never fly directly over people or animals. Please don’t fly in such bad weather conditions as high temperature, snow, strong wind (≥level 5), rain or fog. Maintain a 7ft (2m) distance from the aircraft when taking off and landing.

● Keep the aircraft in dry environment

The aircraft is composed by sophisticated electronic components and mechanical parts. To avoid damages on the mechanical and electronic components, please keep the aircraft in dry environment and use clean cloth to wipe the surface and keep it clean.

● Practice flying together with skillful pilot

Beginners are suggested to practice flying together with skillful pilot’s guidance. Do not fly alone.

● Bear proper operation and safe flight guidelines in mind

Please take a careful look at the manuals before flights for important information of product functions and operation tips, and learn how to use the accessory, safe flight always comes first. Stay informed of and abide strictly by relevant local laws and regulations. Keep away from any non-flight zones and respect other people's privacy.

● Safe flying

Please make sure you are in good shape mentally before every flight. Fly the aircraft as per your flying experience. Never fly under influence of alcohol or drugs. Keep the remote controller at least 20 cm away from your body when flying the aircraft.

● Keep distance from a flying aircraft

Never use your hands to touch a flying aircraft under any circumstance. Don’t approach and touch a landed aircraft before its propellers are completely locked.

● Keep away from heat source

The aircraft is made of metal, fiber, plastic, electronic component and other material. Please keep it away from the heat source to avoid deformation or even damage caused by sun exposure and high temperature.

● Environmental protection requirements

To protect our blue planet, so please recycle the aircraft as per local laws and regulations.

Note:

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

b) 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.

c) To comply with RF exposure requirement, a minimun separation distance of 20cm must be maintained between the user's body and the device.

d) The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems

PLEASE RECYCLE

MADE IN CHINA