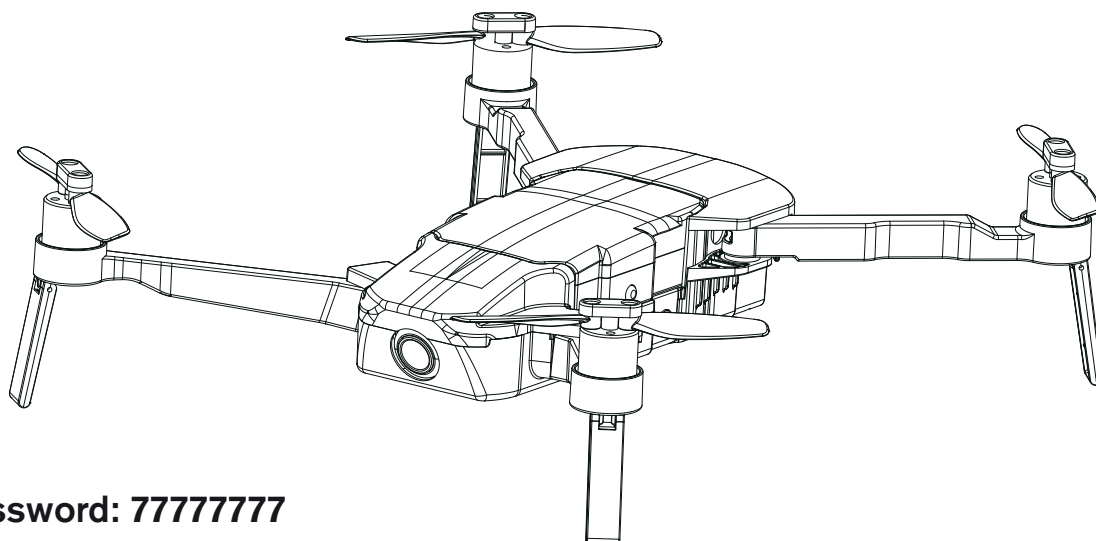




BEE 520/560

INSTRUCTIONS MANUAL

Age:14+



WiFi password: 77777777

Important - Read this first!

1. It is very important to perform the Compass, R/C calibration and Board level calibrations before your first flight, see the different calibration procedures later in this manual.
2. It is recommended to perform a new compass calibration if the new departing point of the new flight is far from over 20KM from the previous flight.
3. It is strongly recommended to do the horizontal calibration and the calibration of the accelerometer if the drone have bad performances or failed or had a serious shock.
4. Do not press the emergency stop button if there is no emergency case, otherwise the drone will fall down and may have serious damages or may cause serious injuries to people.
5. We strongly suggest to update the Bee520/560 APP regularly for better performances.
6. Do not take-off on a metal surface, the sensors of the drone can't work properly on metal.

Introduction

Thank you for your purchase. BEE 520/560 Drone is an innovatively designed portable foldable drone. With the high-end technology built-in flight control system and visual orientation system, it could fly steadily when flying indoors. The GPS systems also assure a very stable flight outdoors, with the possibility of following way points route or follow the pilot for perfect photo and video footage.

When the transmission signal is lost or when battery level is too low, the drone will return to starting point automatically. The drone is equipped with 1080p HD wide angle camera, with real time video transmission on the smartphone with Midrone Bee APP for iOS or Android. The longest flying time is about 15 minutes in the best flying conditions. Please read this manual carefully before using the drone and keep it in safe place for further reference.

Warning

This product is not a toy. It is a high-tech device that requires accurate assembly and proper use to prevent any accidents. The user of this device must use it responsibly and ensure not cause any damage to third parties or to objects belonging to third parties.

This product is not suitable for children under 14 years.

Please use this product only in places where it is legally permitted.

Please refer to the legislation on the use of drones in your country.

Midrone can not be held responsible for any damage, loss, injury or death caused directly or indirectly by the use of this product, part of the product or the information contained in this manual.

Safety instructions

The propellers in movement can cause more or less serious injuries, which is why you should never use the drone near the crowd or flying too close to other people or animals. Accidents can be caused by improper assembly of the drone or a lack of control, and also by the use of a drone and / or damaged remote.

Users of this product should be aware of the risks of potential damage and should therefore use it with great caution.

1. Avoid the crowds and obstacles : the speed and behavior of the drone can sometimes be unstable, it is strongly advised to use it in places away from the crowds, tall buildings or trees, high voltage cables, to prevent injury to the user or other persons or damages to the drone.
2. Do not fly the drone in bad weather (rain, wind, storm) to prevent damages or lost. Keep away from wet places to avoid dis-functioning of electronic parts.
3. Do not use the drone if you're tired because the control requires maximum concentration. Be very careful during learning until your control of the drone is acquired.
4. Keep the drone and the battery away from heat: this product is made of metal and plastic parts, and electrical parts. Therefore it should not be exposed to high temperatures such as near fire, near a heating radiator or exposed too long to direct sunlight.
5. Never leave small parts of drone to reach of children to avoid the risk of suffocation.
6. Please respect the "no flying zone" in your area and never fly the drone in such zone.
7. Please respect the privacy of the people around you. It is totally forbidden to record or take pictures of people without their prior approval.

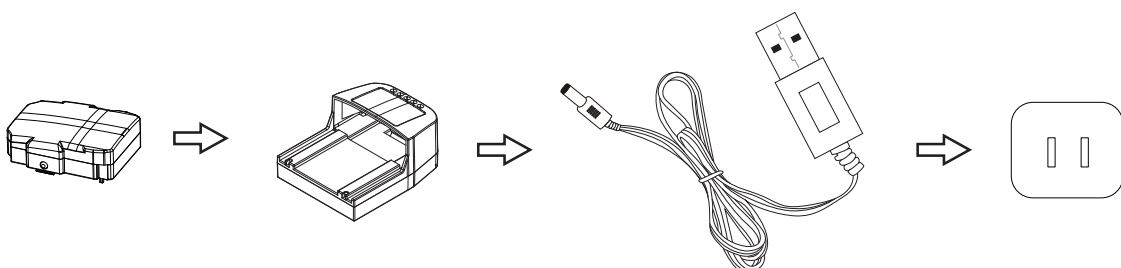
This product is using Li-po battery, it can lead to explosion if improperly operation

- Do not charge the battery when putting it inside the drone, it might cause fire and damage.
- Please keep the drone battery with at least with 50% power if you do not play it for a long time, to extend the battery life. Remove the battery from the drone when you don't use it.
- Please use the original charger.
- Do not charge the battery on the carpet to avoid fire.
- Please recharge the Li-po battery if store it more than 3 months.

Charging

Please charge the battery fully before using the drone. The battery must be charged only with the original Midrone Bee 520 charger provided with the product.

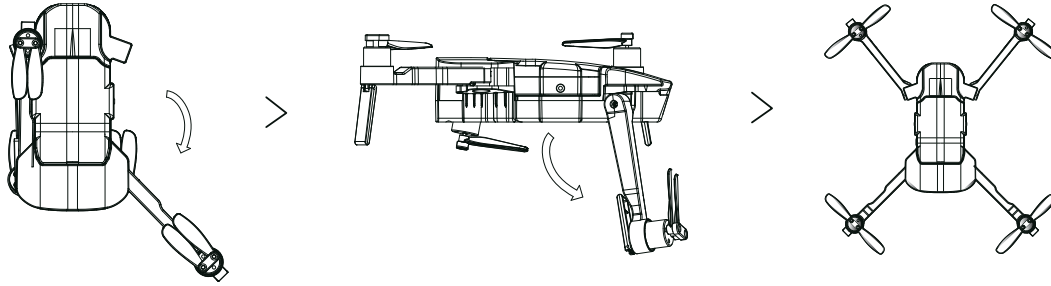
1. Insert the battery in the charger and connect it to a power supply outlet (100-240V,50/60Hz)
2. The battery is fully charged when when all red led indicators are ON and the green led switched OFF . You can now remove the battery from the charging dock and install it in the drone.
3. The charging time is about 80 minutes.
4. Overcharge Protection: Charging automatically stops when the battery is fully charged.
5. Short Circuit Protection: the charger automatically cuts the power supply when a short circuit is detected.



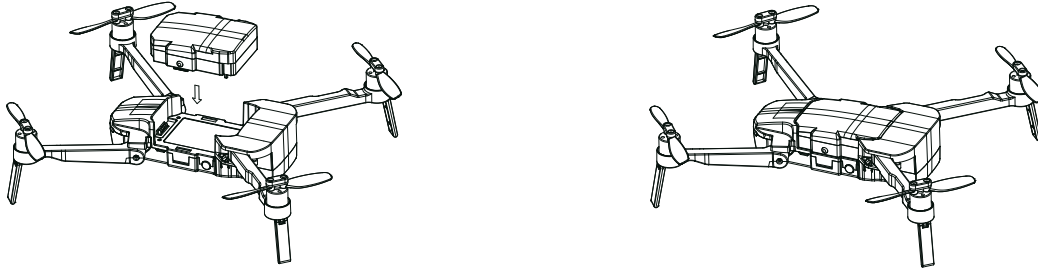
Preparing the drone and battery

The drone is folded when packed in the box. Please prepare it following the below steps.

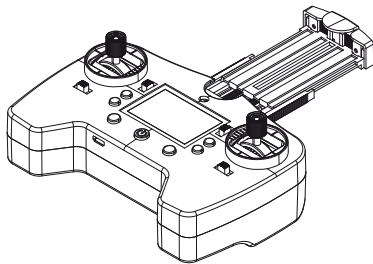
1) Unfold the rear arms followed by the front arms as shown below.



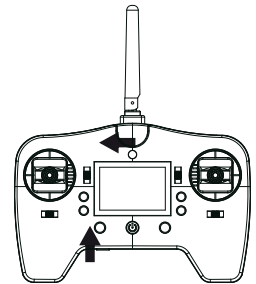
2) Plug the battery on the top of the drone as shown on the image below. Make sure that it is well fixed.



3) On the remote control, unfold the antenna and the phone holder if needed.



4) Pairing: Switch ON the drone (press and hold the ON/OFF switch or several seconds until you hear 3 short beeps), then place the drone on a flat surface. After you hear two long beep coming from the drone, turn ON the remote controller, you will hear 2 shorts beeps followed by a long beep.



5) Connect WIFI: enter into phone Wifi settings, select wifi named Bee560-xxxx or Bee520-xxxx in the list of available networks.

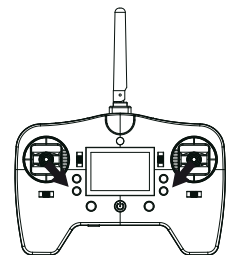
Then exit wifi settings and launch the Midrone Bee APP on your smartphone.

Unlock / Auto take-off / Auto landing

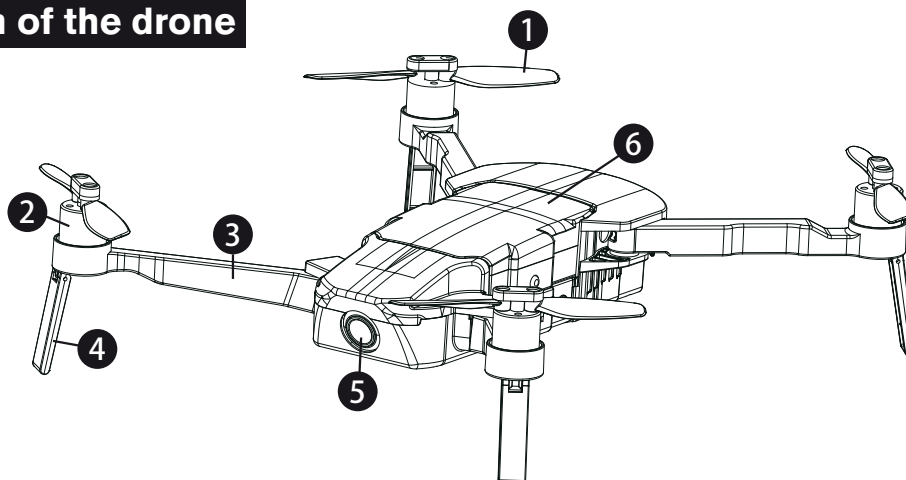
After pairing successfully, push the 2 levers down and to the center with angle of 45 degrees to unlock the drone. The blades start to rotate.

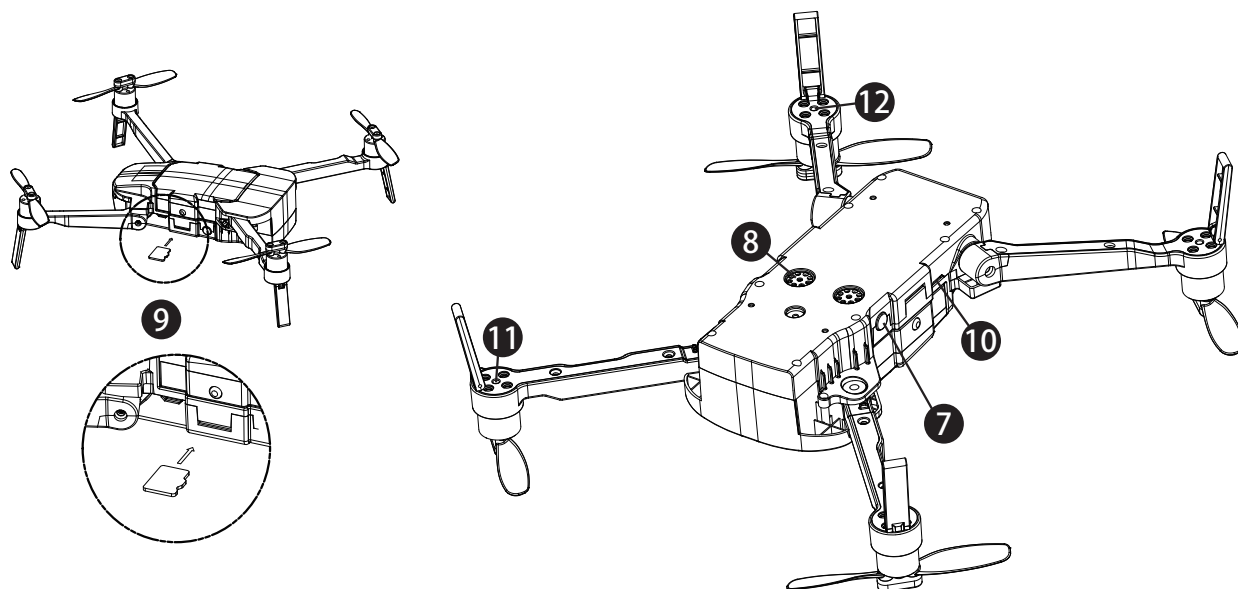
Then press Auto take-off button on the remote controller, the drone will rise automatically to the preset height of approximately 1,2 meter. Keep the throttle stick at the neutral position, then the drone hovers.

Press the Auto take-off/landing key again if you want the drone to land at its current position.



Description of the drone

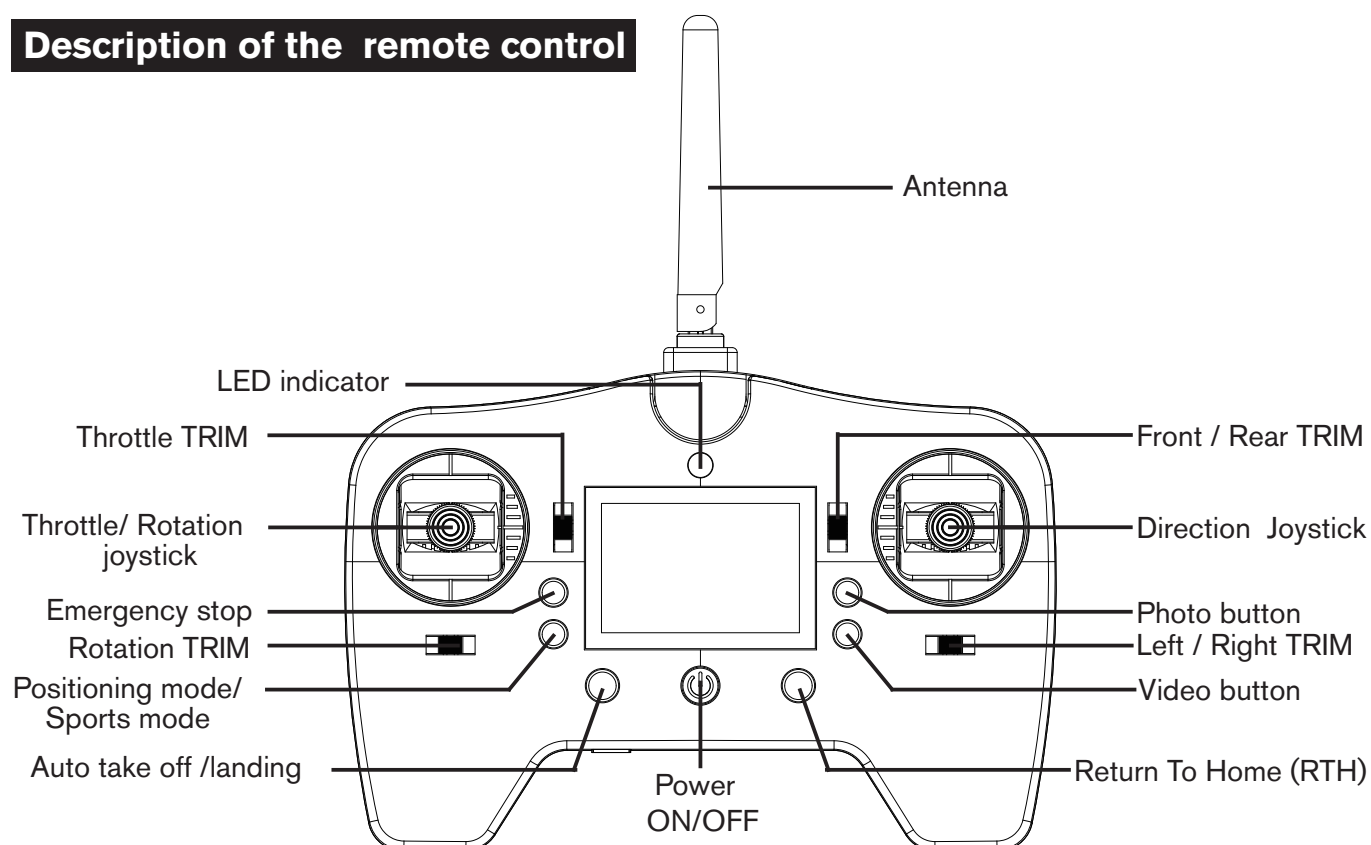




Code	Description	Code	Description
1	Propeller	7	Power switch
2	Motor	8	Vision orientation system
3	Arm	9	SD card slot
4	Landing gear	10	Settings / Data Interface
5	Camera	11	Rear arms led indicator
6	High-performance battery	12	Front arms led indicator

Before taking photos or videos you need to insert a micro SD card in the memory slot at the side of the drone. The cards must be recent SDHC with sufficient writing speed to record HD videos.

Description of the remote control



Flight modes

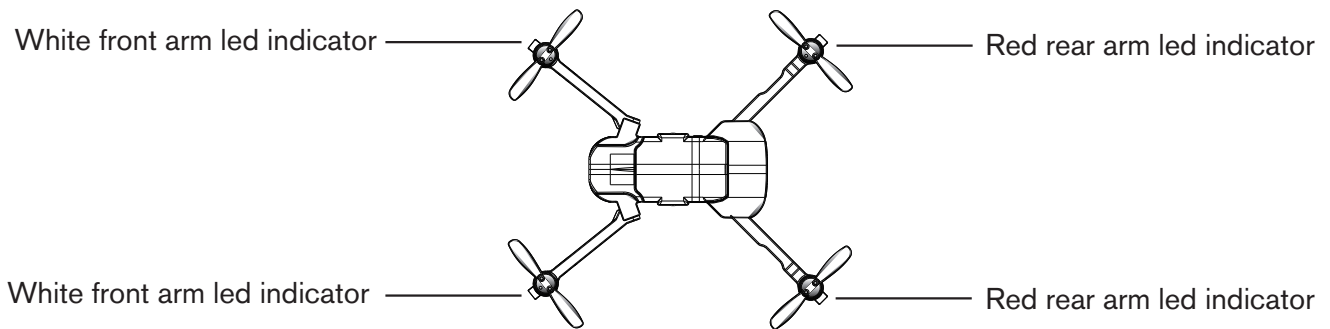
You select one of the two flying mode depending of the use you want to make with the drone.

P mode (positioning): the GPS module and optical flow system will help the drone to conduct precise hovering, flying to pointed waypoints and take off on hands function precisely.

S mode (sports): In this mode the direction lever is more sensitive than usual to achieve maximum flying speed. The GPS system is helping for the flight stability but the vision positioning system shuts off automatically, and App function is not available in this mode.

Flight status indicators

There are two kinds of LED indicators: front arms LED indicator (white color) and rear arms LED indicator (red color).



The front led indicator shows the direction of the drone. Red led indicator glow solid after take off.
The rear led indicator shows different flying status of the drone.

The led indicator status description	
The front led indicator flashes quickly	Drone is in pairing mode
The front led indicator flashes slowly	Drone is in standby mode
The front led indicator glows solid	Drone is unlocked (ready for take-off)
The front led indicator flashes alternatively	System failure
The left rear led indicator flashes quickly	Gps signal is not sufficient for positioning. Rapidly flash (4hz frequency)
The left rear led indicator flashes slowly	GPS positioning is available ,but not accurate enough, led flashes in 2HZ frequency (2 times per second)
The left rear led indicator glows solid	GPS workable
The rear led lights flash alternatively	Remote control signal lost
The rear right led indicator flashes rapidly	NO visual orientation system
Two rear led indicators flash rapidly	Battery low voltage warning
Both rear and front led indicators flash rapidly	Severely battery low voltage warning
The front and rear led indicators flash alternatively	RTH mode (Return to Home)
The front led indicator flashes two times and stop for one second	Preset route flying mode (Waypoints)
The front led indicator and rear led indicator flash two times and stop for one second	Follow me flying mode
The rear led lights flash quickly	When photo button is pressed
The rear led lights keep flashing	During video recording

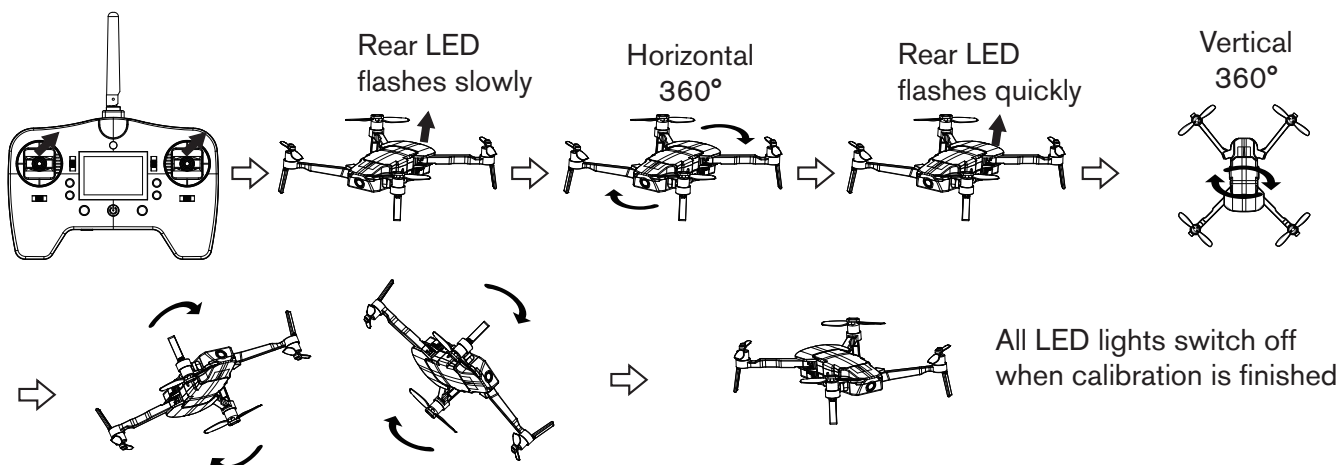
Different calibration procedures

1) Electronic compass calibration

This is very important to operate this calibration before your first flight with the drone. **Explanation videos are available on Midrone website or on Midrone Youtube channel.**

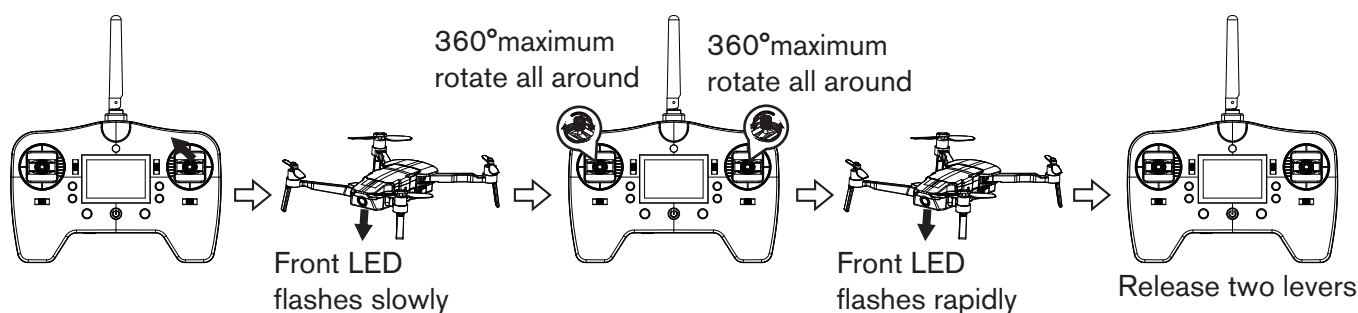
Switch ON the drone and wait for the stand by mode (2 long beeps). Switch ON the R/C and wait for the pairing with the drone (see pairing section above in this manual). Push the direction lever and throttle lever upwards to the right with an angle of 45 degrees. Now the drone starts to calibrate, the front led lights glow solid and the rear led lights flash slowly, then put the drone horizontally and make it rotate few times at 360 degrees with your hand, until the red led indicators flash quickly. After that, put the drone in vertical position and make it rotate few times at 360 degrees. And finally perform some movements with "8 shaped" circles until all LED lights of the drone switch OFF. At this point the calibration succeeded. You can now switch it ON again the drone and start to use it.

If the calibration failed, you need to switch off the drone and restart it, and try this procedure again.



2) Remote control calibration

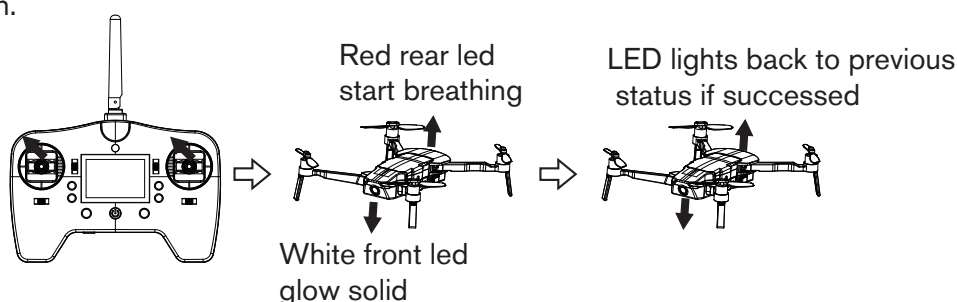
In standby mode, push the direction lever and throttle lever upwards and to the center with an angle of 45 degrees. Now the remote control starts to calibrate, the front led indicators start to flash slowly and the rear led lights glow solid. Now rotate the 2 levers several times at 360 degrees all the way around until front led indicators start to flash rapidly, then release the two levers back to the middle position. All led indicators come back to previous status after R/C calibration succeeded.



3) Horizontal (Board level) calibration of the drone

First place the drone on a flat level surface before operating the horizontal calibration.

In standby mode, push the throttle lever and the direction lever upwards to the left with an angle of 45 degrees. When the front led indicators glow solid and rear led indicators start breathing (variation of color intensity) you can release the 2 levers and the led indicators come back to previous status when the calibration is finished. If the calibration failed, you need to turn off and restart the drone, and try this procedure again.



Return to home (RTH)

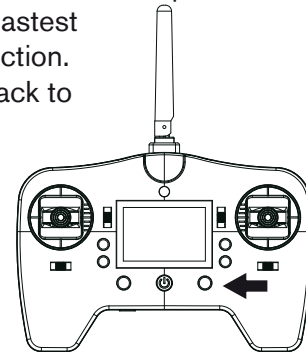
The auto-return function protects the drone from damages or other injuries when it is losing the connection with the R/C or with the smartphone. Midrone 520/560 provides three different Auto-return functions.

Failsafe Return: The drone will enter failsafe mode when the connection from the R/C is lost over 5 seconds or if WIFI control is lost over 10 seconds. When GPS signal is available, and the compass is functioning normally, the drone will return to the latest take-off point. During the return, if the drone receives signal, you can keep return and control the drone through R/C, or press Auto Return key to exit failure safe return mode.

Low Battery Return: To avoid damages and injuries to people, animals or objects, the drone will auto return to the take-off point after self checking the power of the battery. If the power is too low to support RTH, the drone might land near its current position, in this case, damages and injuries or other danger may occur.

Intelligent Return: you can activate this mode with RTH button on the remote control, press and hold this button until you hear a beep sound. The drone will start flying back to the latest take-off point. You can use the remote controller to control the drone's direction. Press again the intelligent return button RTH to exit this mode and come back to previous flying mode.

Note: you must check if the drone is receiving a sufficient number of satellites for the RTH mode to operate properly. The left rear red LED remains fixed when the GPS signal is sufficient. If it flashes the RTH mode will not work.



RTH mode safety precautions



During RTH flying, you can control the direction by R/C to avoid obstacles.



When the GPS signal is not sufficient, The auto return is not available.

Photo / Video

You can control the camera of the drone by the remote controller or with the APP on smartphone.

REMARK: the quality of photos and videos recorded in the APP have lower quality than when it is recorded on micro SD card because it is compressed in 720p for the wifi transmission.

If you have a micro SD card inserted in the drone, the photos and videos taken by the APP will be also saved on the micro SD card in better quality.

To take photo during the flight press the photo button on the remote controller or in APP. The front led lights are fixed, the rear led lights flash 3 times when the photo button is pressed. More functions are available via Midrone Bee APP control.

To take video during the flight press the video button on the remote controller or in APP. The rear led lights keep flashing when recording. Press the video button again to end recording video. More functions for video recording are also available in the APP on smartphone.

When taking photos and videos by the remote controller please make sure that a compatible micro SD card is inserted in the memory slot of the drone. The card must be high speed SHDC with a max. capacity of 64GB.

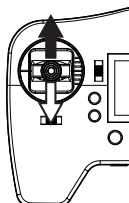
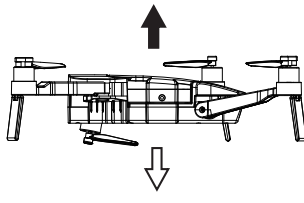
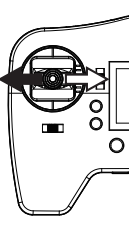
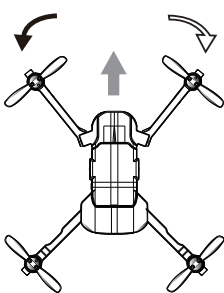
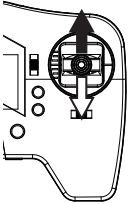
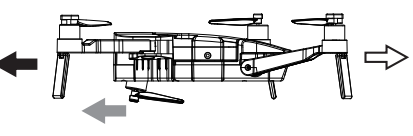
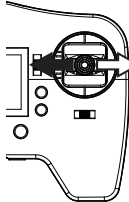
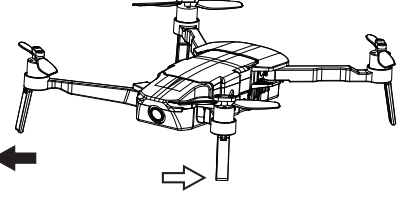
Emergency stop

If the drone is blocked in an obstacle and you want to stop the propellers in emergency, press the Emergency stop button on the remote controller. See the location of this button in the description of the remote controller earlier in this manual.

Important: Do not press the emergency stop button if there is no emergency case, otherwise the drone will fall down and may have serious damages or may cause serious injuries to people.

Operation of the drone

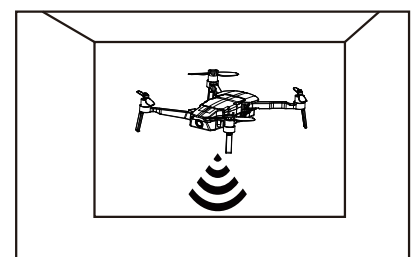
See below the functions description of the 2 levers (joystick) of the remote controller.

R/C	Drone	Function description
		The throttle stick controls drone altitude / elevation. Push the stick up and the drone will rise. Pull the stick down and the drone will descend. The aircraft will automatically hover and hold its altitude if the throttle stick is in central position. Push the stick above the central position to make the drone take off.
		The rotation stick controls the drone rotation. Push it to the left and the drone will rotate counterclockwise. Push it to the right and the drone will rotate clockwise. If the stick is in the center, the drone will remain facing the same direction. The stick controls the rotating speed of the drone. Pushing the stick further away from center results in a faster drone rotation speed.
		The direction stick controls the drone's front and back tilt. Push the stick up and the drone will tilt and fly forward. Pull the stick down and the drone will tilt and fly backward. The drone will keep its position when the stick is in central position. Pushing or pulling the stick further away from center will result in a higher tilt angle (maximum is 25 degrees) and faster flight velocity.
		The direction stick controls also the drone's left and right tilt. Push it to the right and the drone will tilt and fly to the right. The drone will keep its position when the stick is in central position. Pushing or pulling the stick further away from center will result in a higher tilt angle and faster flight velocity.

Vision positioning system (Optical flow)

The vision positioning system function also called optical flow is useful for stable indoor flight under 8m, when the GPS signal is not available. The sensors located under the drone will measure the distance between the drone and the ground and will allow a stable hovering of the drone.

Note that the accuracy of this technology is limited by the texture of the ground.



Installation of Midrone Bee APP on your smartphone

You need to install the Midrone Bee APP on your smartphone to take full advantage of the features of this drone. The APP is available for Android and iOS systems. You can find it in the PlayStore or AppStore by searching on «Midrone Bee». You can also scan the QR codes below to access directly the downloading page of the APP.

Android



iOS



Connecting Bee520/560 with your smartphone

Before being able to control Bee520/560 drone with your smartphone, you need to establish the Wifi connection between both devices.

Enter the Wifi settings on your smartphone, then switch ON the drone. After a few seconds you will see a new Wifi network name starting by «Bee520» or «Bee560» in the list of the available networks, select it and confirm the connection. The WiFi password for the drone is 77777777.

Now you can start the Midrone Bee APP on your smartphone and the drone should appear as detected device on the welcome screen. You are now ready to control the drone by the APP.

Remark: If you want to use the remote controller to pilot the drone and use the screen of your smartphone only for real time video transmission of the camera of the drone, you need to pair first the drone with the remote control and then establish the Wifi connection between the drone and the smartphone in a second step.

Midrone Bee APP description

APP welcome screen





Album

Enter photo/video album



HD Camera

Enter photo/video menu
Take photos and videos
Access photo/video settings



Control

Enter control interface
screen to pilot the drone



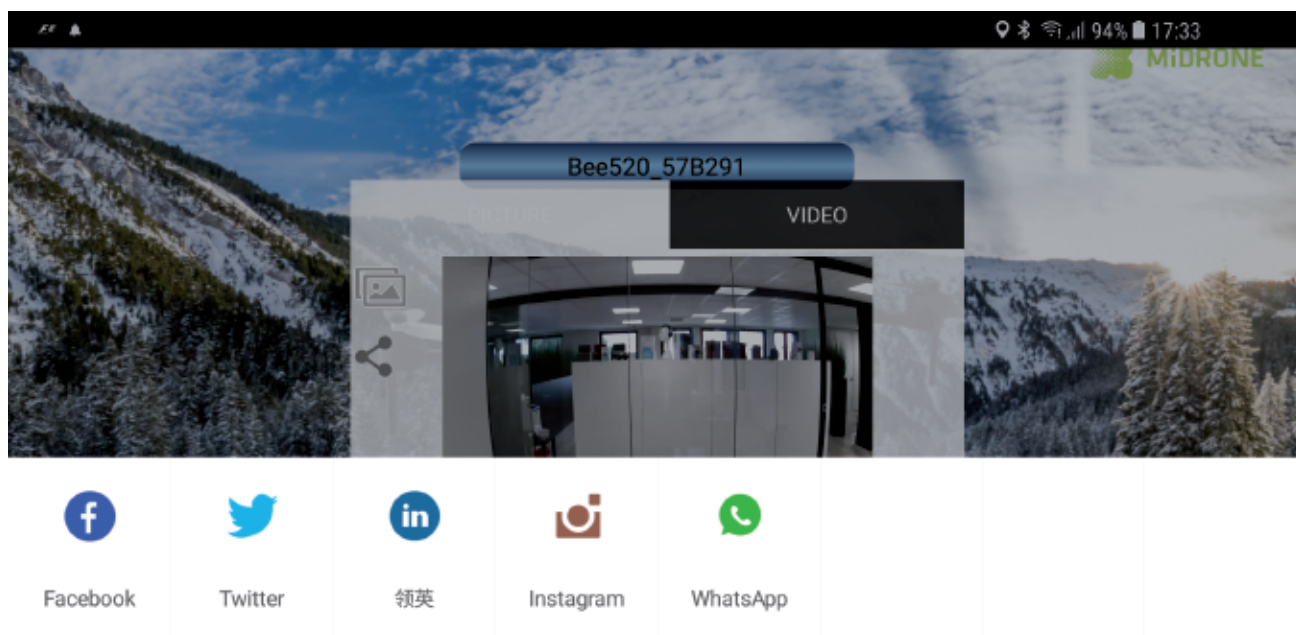
Help

Enter the help menu

Album interface




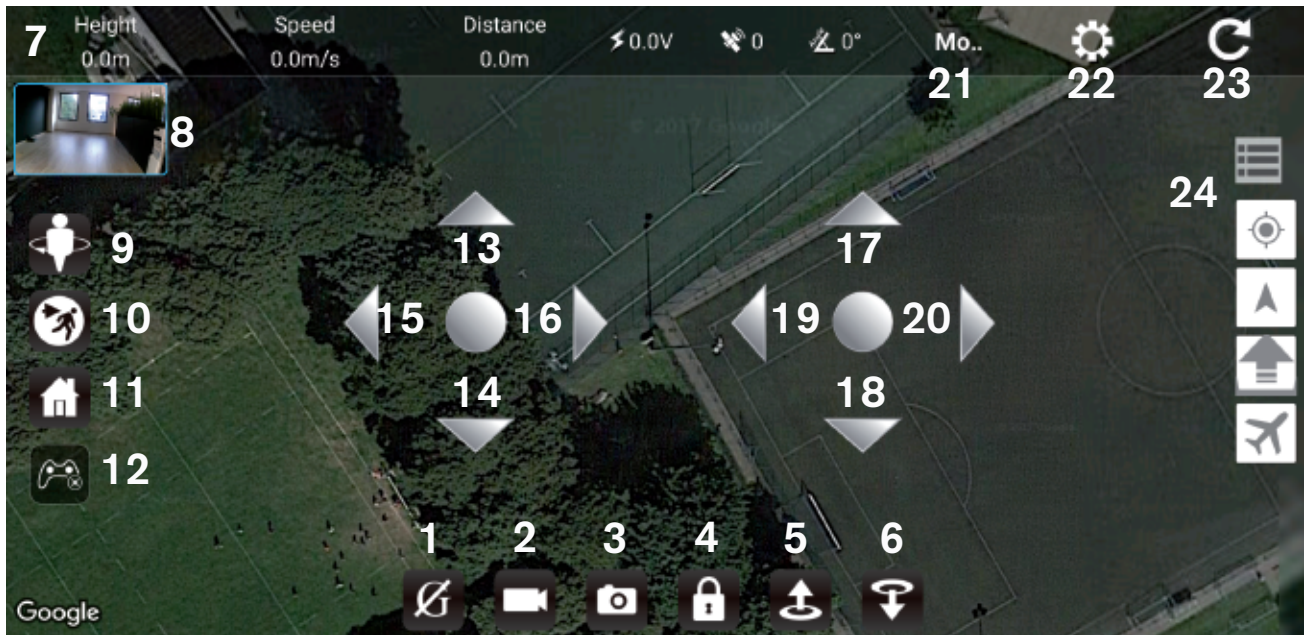
Photos and videos sharing



Select photo or video menu then select the desired photo or video.
Tap on this icon to share directly your pictures and videos on your social medias.

Controlling the drone by the APP

The following screen will appear when you click on the control icon  on the welcome screen. The virtual joysticks are working the same way as the physical joysticks of the remote controller.



- | | |
|---|------------------------------------|
| 1. Gravity sensor (Avatar mode) | 13. Throttle: the drone rises |
| 2. Record video | 14. Throttle: the drone descends |
| 3. Take photo | 15. The drone rotates to the left |
| 4. Lock / Unlock (preparation for take-off) | 16. The drone rotates to the right |
| 5. Auto take-off | 17. The drone flies forward |
| 6. Auto landing | 18. The drone flies backwards |
| 7. Drone status bar | 19. The drone flies to the left |
| 8. Camera preview | 20. The drone flies to the right |
| 9. Circle mode | 21. Drone flying mode |
| 10. Follow Me mode | 22. Calibration settings |
| 11. RTH (return to home) | 23. Return to welcome screen |
| 12. Show / Hide joysticks | 24. Enter waypoint menu |



Gravity mode switch: tap this icon, then tilt your smartphone slightly to any direction. The drone will fly to the same direction accordingly.



Video button: tap this button to start recording video. Tap it again to end the video recording. The videos are visible in the Album of the APP.



Photo button: tap this button to take pictures. The photos are visible in the Album of the APP.



Lock/Unlock: when the drone is connected to Wifi, tap this button to unlock the drone and make it ready for take-off. The propellers start to rotate when you unlock the drone.



Auto take-off: when the drone is unlocked, tap this button and the drone will take-off automatically to about 1.2 meters.



Auto landing: when the drone is flying or hovering, tap this button and the drone will land automatically near its actual position.



Tap this button to exit the control screen and come back to the welcome screen.

Follow Me mode

In this mode the drone will follow the position of your smartphone. It can thus record your activities while you are in movement. **Please read carefully the recommendations below before operating this function.**



1. We strongly advise you to use this function in a clear place, away from obstacles such as trees, buildings, and away from the crowd. Improper handling may result in loss of the drone or may result in injuries to persons or damages to nearby objects.

2. The position of the drone is represented on the map by a orange plane on white background, the position of the smartphone is represented on the map by a blue point. It is very important that the drone and the mobile phone are very close to each other on the map, because if the mobile phone appears to a different location on the map, the drone will fly to this direction.

The accuracy of the mobile phone position on the map can vary following the region where you are located.

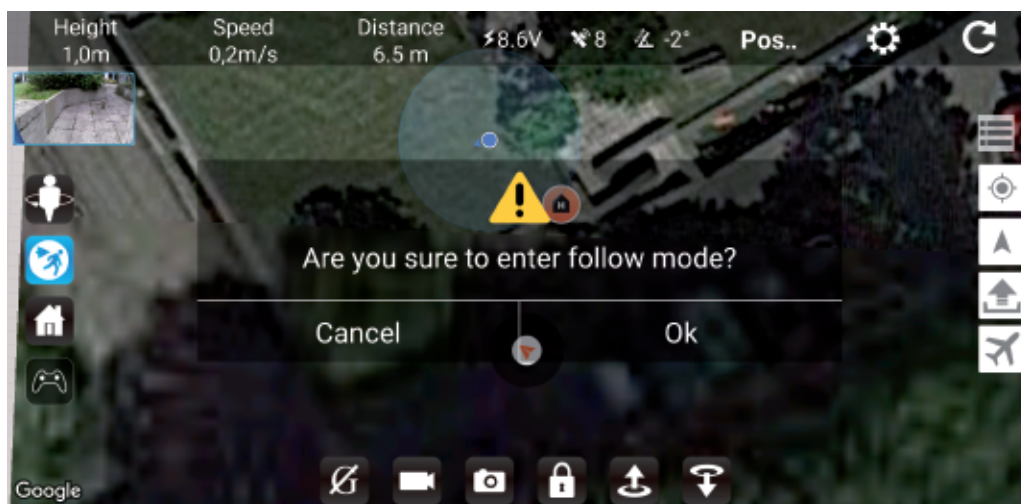
3. This function is available only if the drone is locating at list 10 satellites. You can see the number of satellites in the status bar on top of the screen. The satellite reception will be much faster in clear places such as field, away from buildings.

Follow Me mode operation

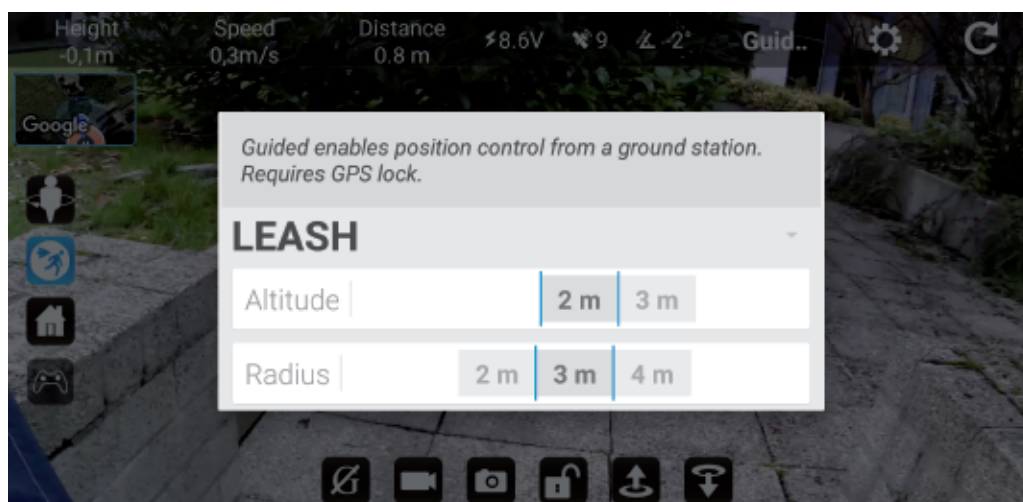
Proceed to drone take-off and wait until it flies stably. Make sure that the drone flying status is in POSHOLD mode, you can check it in the status bar on top of the APP screen.



Tap this button on the main screen to enter the Follow Me mode and access the options. You will have to confirm by pressing OK button on the next screen (see below).



On the below screen you can define the altitude of the drone and the distance between the drone and smartphone. Once you have selected both parameters the drone will start to follow you. The status of the drone changes from POSHOLD to GUIDE during the Follow Me mode session.



Tap again the Follow Me mode button to exit this mode. The status of the drone comes back to POSHOLD mode in the status bar.

Circle mode

In this mode the drone will fly around a defined point at 360 degrees. It can thus record a person or object in 360 degrees. **Please read carefully the recommendations below before operating this function.**



1. We strongly advise you to use this function in a clear place, away from obstacles such as trees, buildings, and away from the crowd. Improper handling may result in loss of the drone or may result in injuries to persons or damages to nearby objects.

2. The position of the drone is represented on the map by a orange plane on white background, the position of the smartphone is represented on the map by a blue point. It is very important that the drone and the mobile phone are very close to each other on the map, because if the mobile phone appears to a different location on the map, the drone will fly to this direction.

The accuracy of the mobile phone position on the map can vary following the region where you are located.

3. This function is available only if the drone is locating at list 10 satellites. You can see the number of satellites in the status bar on top of the screen. The satellite reception will be much faster in clear places such as field, away from buildings.

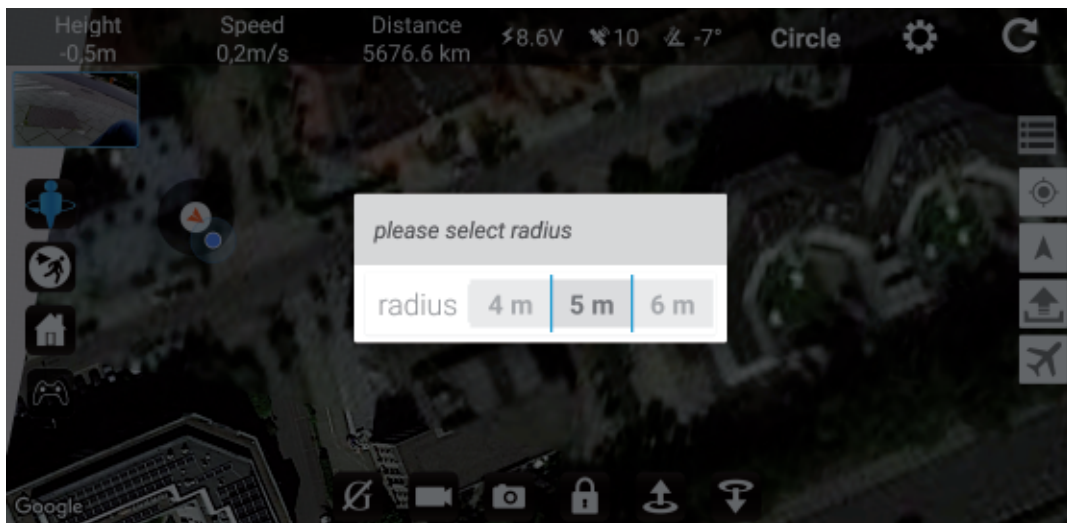
Circle mode operation

Proceed to drone take-off and wait until it flies stably. Make sure that the drone flying status is in POSHOLD mode, you can check it in the status bar on top of the APP screen.



Tap this button on the main screen to enter the Circle mode and access the options. You will have to confirm by pressing OK button on the next screen (see below).

On the below screen you can define the radius of the circle. Once you have selected this parameter the drone will start to fly in circle in the selected radius, starting from its initial position. The status of the drone changes from POSHOLD to CIRCLE during the Circle mode session.



Tap again the Circle mode button to exit this mode. The status of the drone comes back to POSHOLD mode in the status bar.

Flying plan (waypoints) mode

In this mode you can draw a route on a map and ask the drone to follow this itinerary. Please make sure that there are no obstacles between the different way points of your route.

Please read carefully the recommendations below before operating this function.



1. We strongly advise you to use this function in a clear place, away from obstacles such as trees, buildings, and away from the crowd. Improper handling may result in loss of the drone or may result in injuries to persons or damages to nearby objects.

2. The position of the drone is represented on the map by a orange plane on white background, the position of the smartphone is represented on the map by a blue point. It is important that the drone and the mobile phone are very close to each other on the map.

The accuracy of the mobile phone position on the map can vary following the region where you are located.

3. This function is available only if the drone is locating at list 10 satellites. You can see the number of satellites in the status bar on top of the screen. The satellite reception will be much faster in clear places such as field, away from buidings.

Waypoints operation

Before connecting your smartphone to the wifi of the drone, please launch the Midrone Bee APP with an active internet connection (Wifi or 3G/4G) so the map of the area where you are located will be loaded in the APP. You can zoom in and out on the map to load more or less area.

Now you can connect your smartphone to the wifi of te drone and come back in the APP.



Tap this icon to show the waypoints tools.



Method 1: Add waypoints manually. Tap this icon, then click on the map for the desired waypoint locations. Tip: The last point you choose should be close to the starting point.

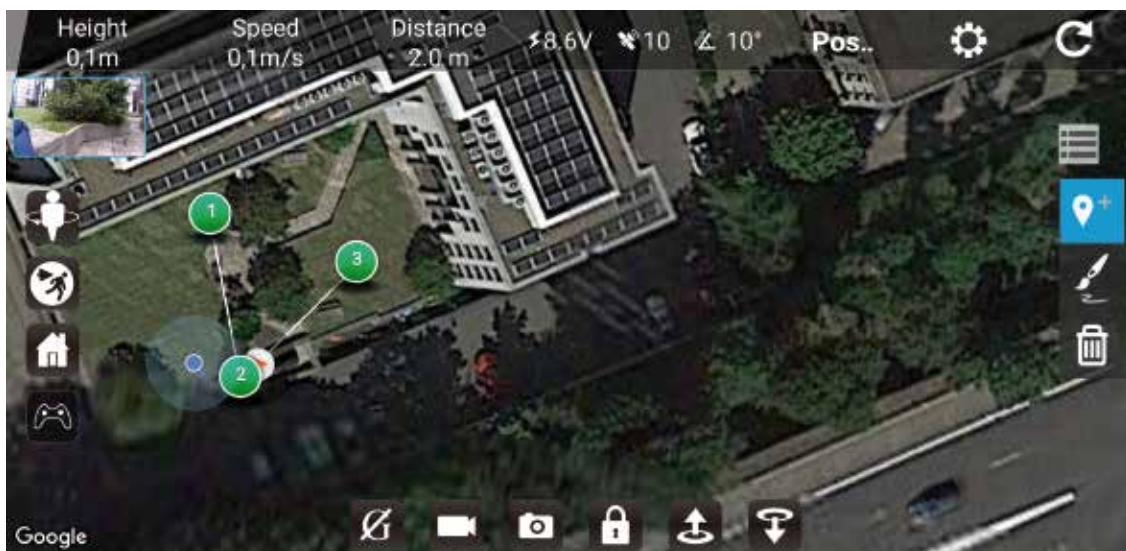
Tap this icon again to exit the adding waypoint mode and be able to select the options for each waypoint.



Method 2: Route drawing. Tap this icon, then draw a line on the map to define the route the drone has to follow. Several waypoints will be added automatically on the line you have drawn.



Delete a waypoint. Tap this icon, then click on the waypoint you want to delete.

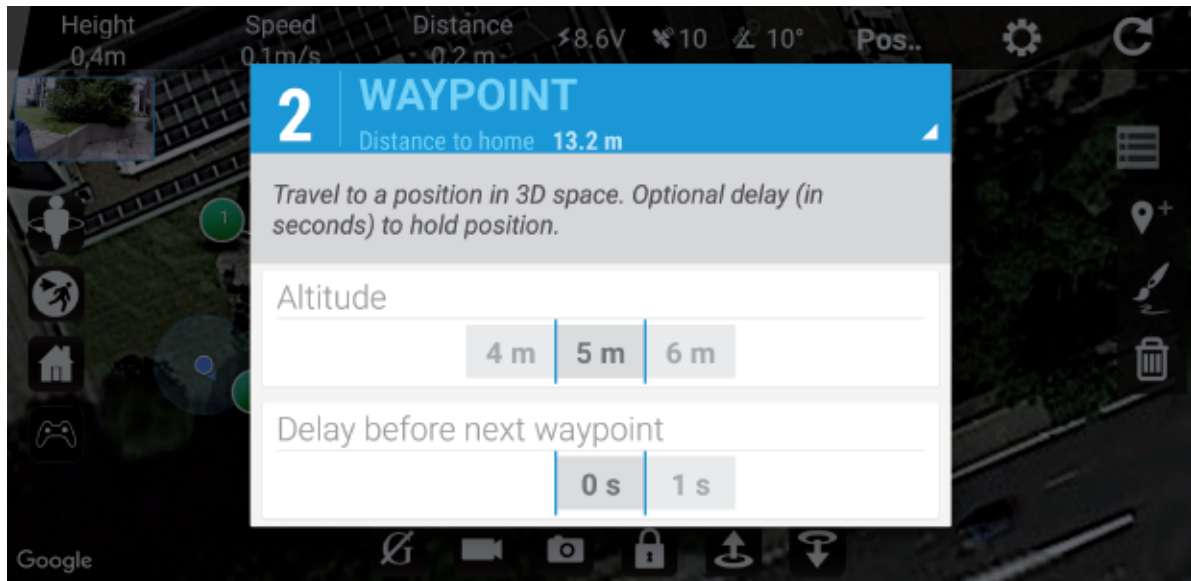


Note:




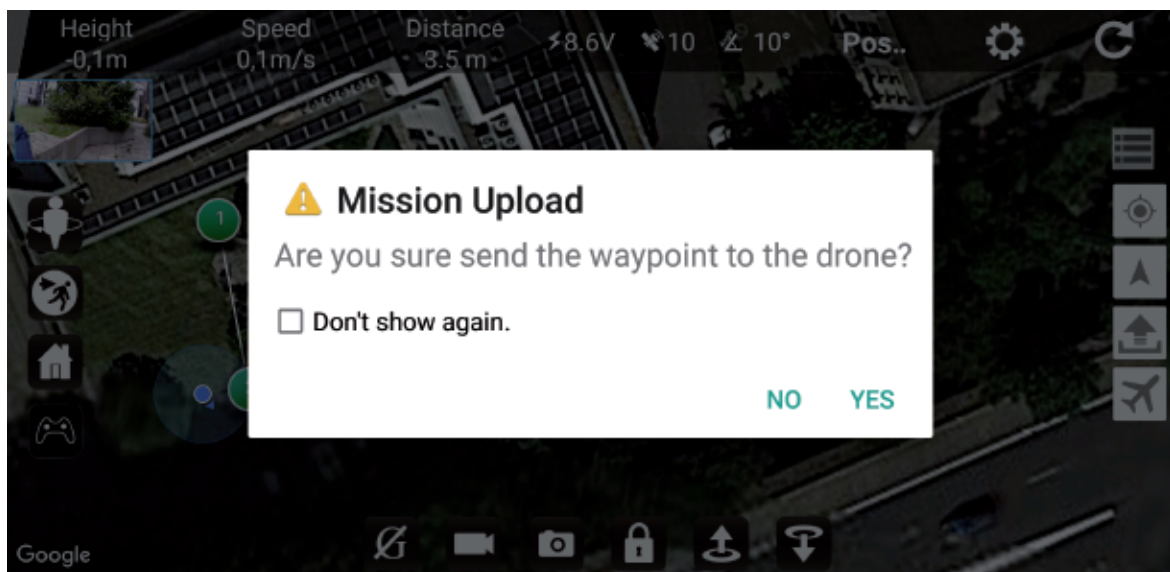
Tap this icon to show or hide the virtual joysticks on the main screen.

Choose a waypoint and select the altitude and delay time. Delay time is the time the drone will stay at this waypoint before flying to the next one.





When you finished to select the options for each waypoint, tap on the icon  to show another menu.

Tap the icon  to load the mission in the drone. When you see the below screen, click on YES to confirm.



Now proceed to drone take-off and wait until it flies stably. Make sure that the drone flying status is in POSHOLD mode, you can check it in the status bar on top of the APP screen.

Then tap on the icon  and the drone starts to follow the route that you have drawn on the map. The status of the drone changes from POSHOLD to AUTO during the Waypoint session.

Tap again on the icon  to exit the waypoint mode when the drone finished its route. The status of the drone comes back to POSHOLD mode in the status bar.

NOTE: if one of the waypoint is out of the range of the wifi connection with the smartphone (usually more than 50M), the drone will fly back to home point after reaching this waypoint as it will enter in safe return mode.



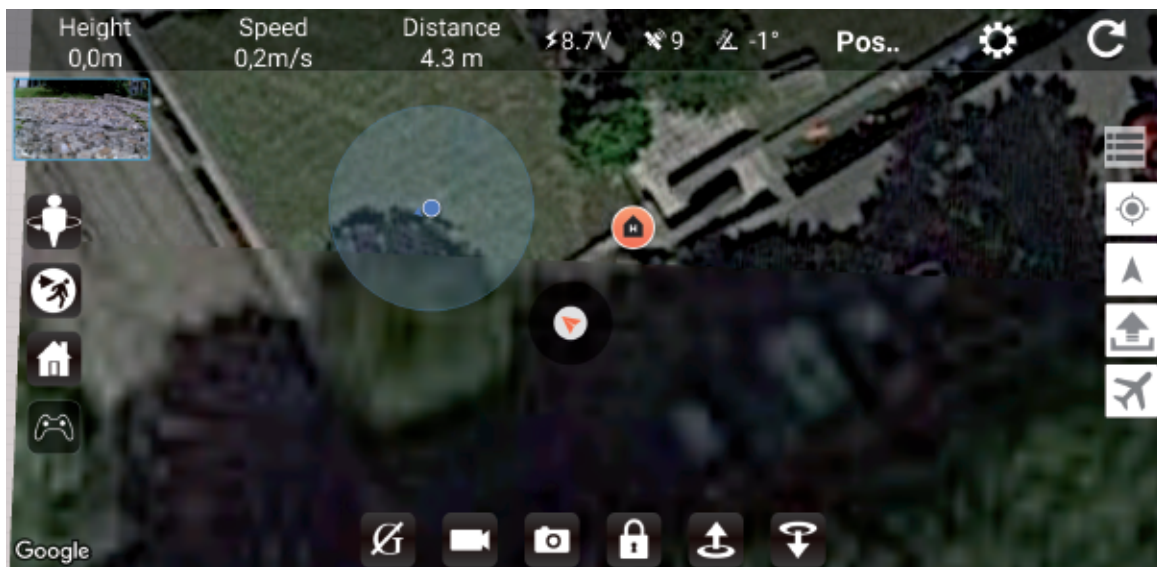
Tap this icon to see your location on the map.

Tap this icon to see the drone's location on the map.

Return to home



Return to home (RTH): when the drone is flying or hovering, tap this button and the drone will fly back to home point. The home point is represented by a home icon in orange circle on the map, see exemple on the map below. Make sure that this home icon is present on the map and that this is the location where you want the drone to fly back to before pressing the RTH button.



Other functions



Tap this button to enter the Board level calibration and ECS calibration. More information about these calibrations are available on www.midrone.eu.

The Board level calibration is the same as the horizontal calibration explained above in the manual. When you select this option, the front led indicators glow solid and and rear led indicators starts breathing (variation of color intensity), then the led indicators come back to previous status when the calibration is finished.

The ECS calibration has to be done only after a motor replacement or a remote controller replacement, or if the drone is flying abnormally. Note that the R/C calibration has to be done prior to the ECS calibration (see above in this manual for R/C calibration details).

Select this option and press OK to confirm on the next screen. Now switch off the drone, remove the battery, then insert the battery again and switch on the drone. You must hear different beep sounds coming from the drone. If you don't hear these sounds, repeat the operation. The calibration is finished when the drone finished to emit the beep sounds.

Troubleshooting

1. I can't establish the connection between the drone and the remote controller.

If the drone has been connected with the smartphone in Wifi, you need to switch off the drone and close the wifi connection before you can pair it again with the remote controller.

2. I can't unlock the drone in the APP so I can't take-off.

If the drone has been connected with the remote controller, you need to switch off the drone and switch off the remote controller before you can control the drone with the APP again.

3. The drone has difficulties to connect with 10 satellites.

It is not easy to get a good satellite reception if you are located near buildings. Please choose a clear location away from buildings such as field or park. The weather conditions can also affect the satellite reception.

4. The flying time of the drone is less than expected.

The flying time can be affected by different parameters such as windy conditions, the way you pilot, if the drone is recording videos or taking photos, ect. The max flying time should be around 15 minutes in the best conditions.

Warranty conditions

1. Warranty period

The Midrone products and accessories are guaranteed against manufacturing defects for a total period of 24 months ** (consisting of an initial period of six months and a second period of 18 months) from the date of original purchase. Midrone sole obligation in the event of such defects during this period is to repair or replace the defective product or part with a comparable product or part at the sole discretion of Midrone. The following components or parts are not within the scope of this warranty.

- Propellers & propeller protections : no warranty on this component
- The lithium battery receive a limited warranty for 6 months or 50 recharges

Existence of a lack of conformity on the day of purchase

To benefit from the conformity warranty of the defect in the product must exist at the acquisition date.

The defect in the product appears within 6 months after purchase

The defect in the product appears within 6 months after the purchase, it is presumed to exist at the date of acquisition.

The fault occurs more than 6 months after purchase

The fault appears more than six months after purchase, you can benefit from the guarantee of conformity only if you can prove that the defect existed at the time of purchase.

** LAW 2014-344 of 17 March 2014 on the consumption, publication NOR: EFIX1307316L

2. Warranty conditions

These conditions must be fulfilled for the warranty service.

You must include the purchase invoice or receipt as proof of purchase date.

- The product must not have been altered, modified, or repaired by unauthorized person.
- The product must have been used in a normal way as described in the manufacturer's manual.
- The serial number or lot number, labels and stickers sabotage must be intact, with no signs of tampering.

The guarantee is not applicable for

- Damage resulting from misuse, accident, shock, ...
- Damage resulting from the inability to use the product
- Damage resulting from a fault of the user
- Damage resulting from a job, use or installation not in accordance with the manufacturer's specifications
- Damage resulting from a bad use for the good preservation of the unit
- Damage resulting from use of inappropriate accessories or consumables
- Damages that result from use of unauthorized spare parts
- Damage resulting from modification or alteration of the product
- Damage resulting from pilot error
- The damage that result from misconfiguration
- Damage resulting from the use of the unit in a hazardous environment
- Damage resulting from the use of the unit in bad weather
- Damage resulting from the use of a defective or non-charged battery.
- Damage to components: Camera, Accu resulting from inadequate mounting of these components
- The damage resulting from the operation of the unit in an electro magnetic interference environment (radio transmission tower, high voltage son, high voltage transformer, etc.).
- Damage resulting from operating the unit in a known environment for interference from other wireless devices (Wi-Fi signals, data transmission, etc ...)
- The damage resulting from the operation of the unit with a higher weight than normal take off weight.

3. Return Product

The product can be returned to your dealer or directly at Midrone after asking in advance a return number on the site www.MiDrone.eu. If the returned unit is out of warranty, no refund or exchange will be allowed.

4. Spare parts available

The main spare parts such as propellers, battery, propeller protection are available for sale on the site www.MiDrone.eu

Respect of the environment

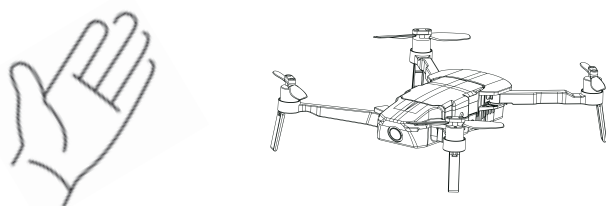


This product or its battery can not be disposed of with household waste, it must be returned to a collection point to be recycled. Please check with your local authorities for details.

Taking a picture by hand gesture

This function works with the Midrone application and allows you to trigger a photo without having to click the photo button but simply showing your hand to the camera of the drone. See below for details on using this feature:

1. Proceed to the take off the of te drone and let it fly with the camera pointing towards you.
2. Show the palm of your hand to the camera of the drone.
3. When the drone has recognized the palm of the hand, a 3-2-1 count will appear on the phone screen in the Midrone app. You can now lower your hand.
4. The drone automatically triggers the picture at the end of the countdown.



Technical specifications

Drone size open: 250x230x55mm - Drone size folded : 120x75x55mm

Drone weight with battery and camera: 199g

Stability and flight precision outdoors by GPS / Glonass

Stability and flight precision indoors by optical flow

Camera HD 1080P 30ips view angle 120° – Real time video transmission on smartphone

Photo resolution 1920*1280 pixels

LiPo Rechargeable Battery Pack 1200mAh 7.4V (1300mAh 7.4V for Bee560)

Flight time: up to 15 mins in good conditions - Charge time: about 70min

Precise return to starting point by GPS - Programmable flying on map by waypoints

Accurate « Follow Me » function - Auto take-off – Auto landing – Altitude hold

Range with 2.4Ghz remote control: about 200m - Wifi range with Smartphone : about 50m

MiDrone APP for iOS and Android for control via smartphone

Box content :

MiDrone BEE 520HD or BEE 560HD

Remote control 2.4Ghz with holder for smartphone

Battery pack LiPo 1200mAh 7.4V (1300mAh Bee560) + Charging dock

*4 batteries AA 1.5V needed for remote controller

(not included in the pack)

About this manual

We strive to ensure that the information contained in this manual are as accurate as possible. Changes may be made to the manual or the product without prior notification. The latest updates will be available on our website www.midrone.eu. Our company shall under no circumstances be held liable for injury or damage caused by errors or omissions in this manual.

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Declaration UE of conformity

We, manufacturer / importer,

Company : A6 Europe s.a. - Address : 127-129 rue Colonel Bourg, 1140 Brussels, Belgium.

Declare under our own responsibility that the following equipment :

Brand : MiDRONE - Item code: MIDR_520HD / MIDR_HD560

Product description: R/C Drone MiDRONE Bee520 HD Wifi GPS

Complies to the essential provisions of the following EC Directive(s):

RED Directive: 2014/53/EU

Low voltage Directive: 2014/35/EU

EMC Directive: 2014/30/EU

ErP Directive: 2009/125/EC

RoHS Directive: 2011/65/EU

And complies with the essential provisions of the following harmonized European standards:

EMC :

Draft ETSI EN301489-1 V2.2.0: 2017-03

Draft ETSI EN301489-17 V3.2.0: 2017-03

EN55035:2017

EN55032:2015+AC:2016

Radio : ETSI EN300328 V2.1.1: 2016-11

Safety: EN60065:2014

Health: EN62479:2010

Date : October 2018

David Peroo, Product Manager

