GPS VIDEO HOVER DRONE

14+

Getting to Know Your Drone

PLEASE READ ALL WARNINGS AND INSTRUCTIONS PRIOR TO USE. KEEP THIS DOCUMENT AS IT CONTAINS IMPORTANT INFORMATION ABOUT YOUR DRONE.

FEATURES:
- 12 multi-colored LEDs for night flying
- Auto orientation for easy to control flight
- Auto take-off into auto hover
- Auto landing
- 700 ft flight range
- 2 flight speeds
- 720p live HD streaming video to our dedicated app via standard Wi-Fi protocol
  - Records video and takes photos directly to your smart device
- Full GPS enabled functionality
  - Auto hover
  - Return to Home – Pressing the home button will bring the drone back to the take-off location and enter into auto landing.
    - In the event of low battery or loss of signal, drone will also return to home and auto land.
  - Auto Orbit – Pressing the orbit button puts the drone into a slow orbit around a user selected point on the map at a user defined altitude and radius.
  - Follow Me – Drone will follow the GPS position of the smart device at a user defined altitude.
  - Points of Interest – Drone will fly on a prescribed flight path of position and altitude, decided upon by the user and fixed by GPS.

STOP DO NOT RETURN TO STORE

Questions? Concerns?
We're available to help!

Instructional videos, troubleshooting, and support are available at:
www.dxdronecenter.com
Or call:
(800) 374-2744
Before calling please locate the 10-digit code printed on your drone.

ADULT ASSEMBLY, CHARGING, AND BATTERY INSTALLATION IS REQUIRED. ADULT SUPERVISION IS REQUIRED.

WARNING:
CHOKING HAZARD - Small Parts.
Not for Children under 3 years.

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KEEP THIS INSTRUCTION MANUAL AS IT CONTAINS IMPORTANT INFORMATION FOR FUTURE REFERENCE.

Due to continuous product improvements, the picture on the manual may differ slightly from the actual product.

PATENT PENDING

GPS VIDEO HOVER DRONE

INTRODUCTION

Congratulations on your purchase of the Rechargeable GPS Video Hover Drone. Get ready to soar to new heights. Master the art of drone flying with remote control maneuverability. This lightweight drone will provide hours of fun.

SPECIFICATIONS

Drone Battery: 7.4V, 2600 mAh Li-po
Remote Controller Battery: 4 x 1.5V "AA"
Charging Time: 3 - 4 hours
Maximum Recommended Altitude: 115 ft.
Weight: 1.6 lbs.(This item needs to be registered with the FAA, please visit www.FAA.gov)

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READ ALL WARNINGS AND PRECAUTIONS BEFORE USE

SAFETY WARNINGS
- Not recommended for children under 14 years of age. As with all electrical products, precautions should be observed during handling and use to reduce the risk of electrical shock.
- Adult supervision is required at all times
- Never fly drones above or near people, sudden changes in wind or other conditions could lead to unexpected crashes.
- Always use caution when flying drone vehicles, obey relevant laws, respect the privacy and property rights of others.
- The drone shall never be modified or used for anything except its intended purpose.
- Before each use, an adult should review the product and battery to determine that no damage or hazards exist
- **DO NOT TOUCH SPINNING PROPELLERS**
- Do not allow anything to intentionally make contact in any way with spinning propellers
  - Prevent contact with spinning blades by turning off remote prior to handling drone
- Use caution and pay attention to your surroundings while operating drone
- Do not fly drone into animals, people, or inanimate objects
- Keep drone away from power lines, buildings, trees, public areas, and any other potentially hazardous areas.
- Do not operate in rain, heavy wind, and or any type of severe weather
- Do not land drone on wet surfaces
- Never touch or allow others to touch drone while it is flying
- Always turn drone off when it is not in use
- Always fly drone in large open areas

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

Fly-aways are the responsibility of the individual pilot and will not be replaced by the manufacturer.

This drone weighs 1.6 lbs. As of December 21, 2015, the Federal Aviation Administration (FAA) only requires registration on unmanned aircrafts weighing more than .55 lbs. Visit www.faa.gov/uas/registration/ for more information. The FAA does require this drone to be registered, ongoing compliance with federal, state, and local laws is an owner's sole responsibility.

INVASION OF PRIVACY WARNING
Always be mindful of others privacy and do not record video or take images of others without their consent. Check and comply with your federal, state and local laws regarding privacy.

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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.
FCC RF Radiation Exposure Statement:
CAUTION: To maintain compliance with the FCC's RF exposure guidelines, place the drone at least 20cm from nearby persons.

TROUBLESHOOTING:
When remote switch is turned on, the remote light does not illuminate:
1) Check that batteries in the remote are installed correctly OR
2) Replace with new batteries

When the remote is switched on, the remote LED is flashing and remote is beeping:
1) Remote batteries are low; replace them with new batteries

Drone and remote properly pair, but the drone will not lift-off:
1) Drone Li-Po needs charging. Use charging cable to connect the drone to power source.

After trimming the drone, the drone flight is very unstable and cannot fly properly:
1) One or more blades are most likely damaged;
2) Turn off the drone and remote.
3) Replace with the proper number replacement blade and try flying again.

After impact, the drone is unstable:
1) Put the left remote control lever to the left bottom and put the right remote control lever to the right bottom at the same time which connected to the drone (diagram to right).
2) If the above does not resolve the issue, reboot the drone and controller and pair again.

Remote Controller and Drone can not be paired:
1) Check Point: Remote Controller must be closed to Drone, not exceed 4 meters.

Note: If there are 2 sets of Drones within 4 meters for Pairing, you must pair one successfully before pairing the second set.

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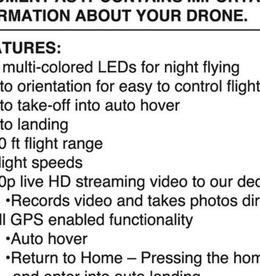
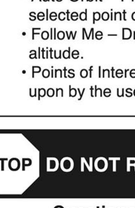
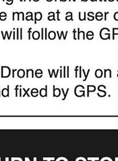
CONTENTS



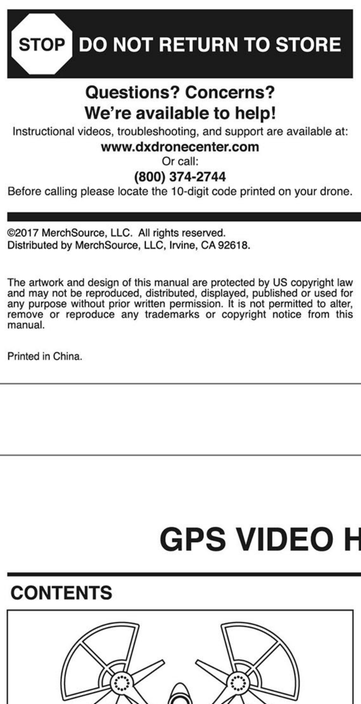
GPS Video Drone



Drone Controller



Smart Phone Mount



Charge Cable

Propellers

20 piece screws for blades (14pcs for blade guard and 6pcs for standing holder)

Small Screwdriver

REMOTE BATTERY INFORMATION

1. Slide open the remote's battery compartment.
2. Install 4 "AA" batteries as shown in the diagram above.
3. Replace and close battery compartment.

⚠ LITHIUM-POLYMER BATTERY WARNING

There is a risk of fire and personal injury if Li-Po battery is punctured, damaged or misused.
- Never expose battery to extreme temperatures or moisture.
- Do not subject battery to strong impacts
- Always keep battery away from flammable materials.
- Only use manufacturer specified batter(ies), charger(s), and/or adapters, if applicable.
- Battery is not serviceable.
- Let battery cool to room temperature before charging.
- While charging, never leave battery unattended.
- Recycle or dispose of battery according to federal, state and local laws.

KEEP THIS INSTRUCTION MANUAL FOR REFERENCE

BATTERY WARNING - ALKALINE (AA)
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable batteries.
- Insert batteries using the correct polarity. Do not short-circuit the supply terminal.
- Only use manufacturer specified batter(ies), charger(s), and/or adapters, if applicable, specified by the manufacturer.
- Always use, replace, and recharge (if applicable) batteries under adult supervision.

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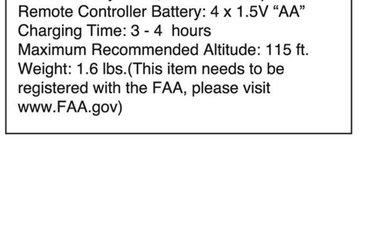
CHARGING BATTERY

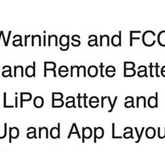
Connect the adapter to the Battery Gateway. Plug the adapter into wall electrical socket. Connect the battery to the Battery Gateway

Note: The Battery Charger will light up green when it is charging the battery and begin to blink when the battery is fully charged. Charge time is approximately 3 to 4 hours.

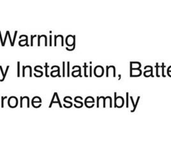


DO NOTE LEAVE BATTERY UNATTENDED WHILE IT IS CHARGING

Drone Assembly



1. Remove the screw leading to the battery compartment then place battery into the drone's cavity. Connect the wires as shown above.



2. Use the Flat Screws to install the drone legs.

3. Slide the Camera into the Shock Mount.

4. Slide the camera using the Shock Mount into the battery compartment and connect the camera wires.

5. Remove drone cover blade insert cover. Slide the blade guards into the drone and secure using screws.

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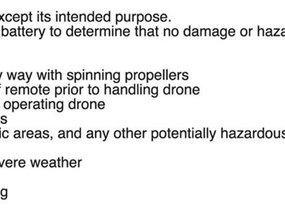
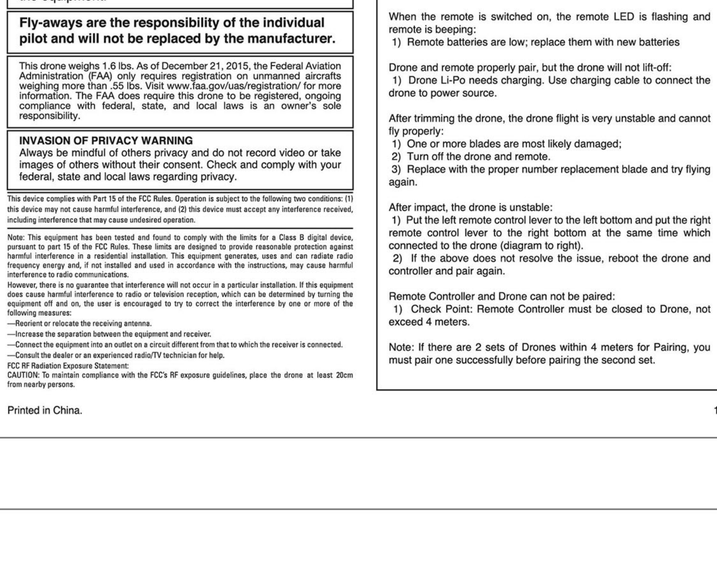
APP SET-UP

Download the App
Go to your app store on your mobile device and download the 360 Flight GPS app.
Connecting Phone to Drone
1) Turn drone On.
2) While Wifi is active on your phone, search for 360FlightGPS-XXXXXX network (every drone has its own 6 digit identifier).
3) Connect to the 360FlightGPS-XXXXXX network
4) If you are having trouble connecting to Wifi, refer to your user smartphone manual for directions.
5) Open the 360 Flight GPS App.
6) Press the drone icon and the screen below will appear.



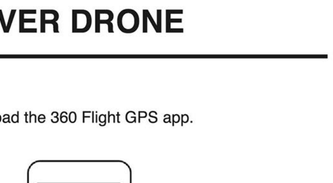
APP LAYOUT



FLIGHT OPTIONS

- On Screen Controls
- Point of Interest
- Follow-Me Mode
- Auto Orbit

SETTINGS - JOYSTICK, FLIGHT PAREMETERS, MAP, INVERTED MODE



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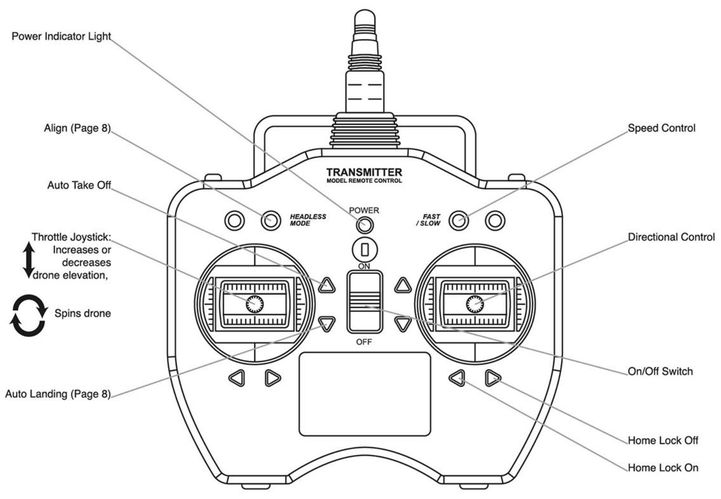
REMOTE OVERVIEW



INSTALLING PHONE HOLDER

Insert antena through hole at the base of the Smart Phone Mount.

Align hole on Mount with hole in antena. Insert screw to secure Mount to remote.

Carefully slide phone into Mount by pulling up on top of Mount. Adjust angle accordingly.

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OPERATING DRONE

Step 1 – Pre-Flight Checklist
- Read all warnings and instructions
- Install remote batteries, page 2
- Charge batteries, page 3.
- Assemble Drone, page 3.
- Make sure that drone and remote are powered off.

Step 2 – Choosing a location
- Drone is designed to be flown outdoors
- Always make sure you have enough space to fly drone
- Always follow warnings, page 1

Step 3 – Calibration
Now, the drone needs to be calibrated. Please follow the below steps:
1) Turn on the drone, and the LEDs blink quickly. Then turn on the remote controller to pair.
2) Push the left control stick to bottom left and right stick to top right.
a. The drone LEDs will blink fast, then release the control sticks.
3) Then, rotate the drone with the landing legs facing down for 3 or 5 circles (clockwise).
4) Then vertical rotate the drone for 3 or 5 circles clockwise (drone camera facing down, SI logo is front of drone; GPS is rear).
a. The drone LEDs will blink slowly. This means the calibration was successful. Place the drone on the ground.
5) After finish the above step, the drone will start GPSCAM. When the drone LEDS stop blinking, that means GPSCAM is complete.
6) Now, we will calibrate the gyroscope
a. Push the left control stick to top left and right stick to bottom right, and hold on for 5 seconds at least.
b. The drone LEDs will blink fast for 2s and then stop blinking. This means calibration is successful.
7) Now, we will unlock the drone.
a. Push both control sticks inward at a diagonal, and the blades will spin.
b. Press the take-off button on the remote within 3s otherwise the drone will be locked automatically and needs unlock again.

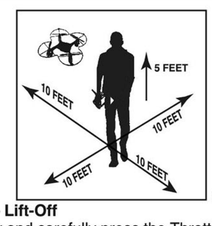

Fig. 1

Step 4 – Lift-Off
1. Slowly and carefully press the Throttle Joystick up. Drone will begin to elevate. You can compensate for some of the drones drifting by using the Multi Directional Button or by following step 5. You may need to practice this step several times before successfully getting drone into the air.
2. You can let go of the throttle once you get to your desired elevation. The drone will engage its auto hover function.

Step 5 – Operating Drone in Flight
The drones range is approximately 100 feet
- Read and be aware of all warnings found on page 1.
- Maintain your desired elevation by using the Throttle
- Use the Throttle joystick in a circle motion to spin the drone
- Use the Multi Directional Joystick to move forwards, backwards, and side to side
- Review step 5 if your drone begins to drift
- Drone will begin to blink when drone is paired to remote and battery is low

Step 6 – Landing Drone
1. Press the Auto Land Button. The drone will slowly begin to land. If the drone begins to drift, you can still control the drone's direction using the Multi Directional Button.
2. Slowly and carefully press the Throttle Joystick down until drone lands. If the drone begins to drift, you can still control the drone's direction using the Multi Directional Button.

Note: Home Lock button on app brings drone back to home location and then auto land.

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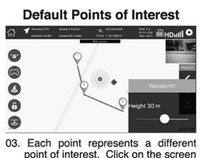
ADVANCED FLYING FEATURES

NOTE: To utilize the advanced GPS functions, complete steps 1 through 3 on page 6, then turn off the remote. The drone will now be flown and controlled using your smartphone.

Default Points of Interest

01. Click on the screen where you want each point.
02. Each point can be clicked to edit it's individual altitude.



03. Each point represents a different point of interest. Click on the screen to set each point in order.
04. Each point can then be clicked on to edit its individual altitude. When ready, click on the send arrow to send the instructions to the drone to execute.

05. If you want to remove points, use the trash icons to remove all points or just the highest numbered point.

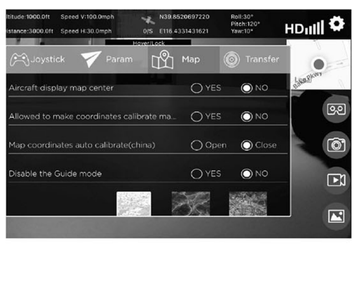
Auto Orbit

01. Click on the screen where you want the drone to orbit.
02. Once the point is selected, click on the point to select altitude and radius of the orbit.

03. After selecting Auto Orbit, click on the screen to select the point where you want the drone's orbit to be centered.

04. Click on the Auto Orbit point to edit the altitude and radius of the circle. When ready, click the arrow to send the instructions to the drone to execute. The Auto Orbit point can be deleted by clicking the trash icon.

ADVANCED SETTINGS



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OTHER FEATURES

Align
Press the Align Button to turn Align mode ON and then again to turn off.
- In this mode, the drone will always move in the direction you press the Multi Directional Button no matter which way the drone faces.

Auto Take-Off Button
Once you are comfortable flying the drone, use the Auto Take Off Button for an easy take off.
1. Turn remote ON
2. Pair remote to drone: Bring the Throttle all the way up then bring it all the way down, remote will beep once paired.
3. Press the Auto Take-Off button.
4. Press the Auto Take Off Button. Drone will begin to elevate. You can compensate for some of the drones drifting by using the Multi Directional Button or by following step 5 on page 5. You may need to practice this step several times before successfully getting drone into the air.

Tips
- Do not crash drone into sand or dirt. Drone gears may become clogged.
- When first learning to fly, practice lifting off and hovering.
- Stay several feet from walls and buildings
- Always Press Throttle all the way down after crashing or when something gets stuck in propellers.

Replacing Propellers
1. Remove the silver pressure fitted caps.
2. Remove existing propellers using the provider screw driver.
3. Replace the propellers using the diagram to the right. Make sure you installed the correct blade

Each blade has a letter written on it
NOTE: Blade 1 turns counter clockwise and Blade 2 turns clockwise.
4. Re-attach the silver pressure fitted caps.