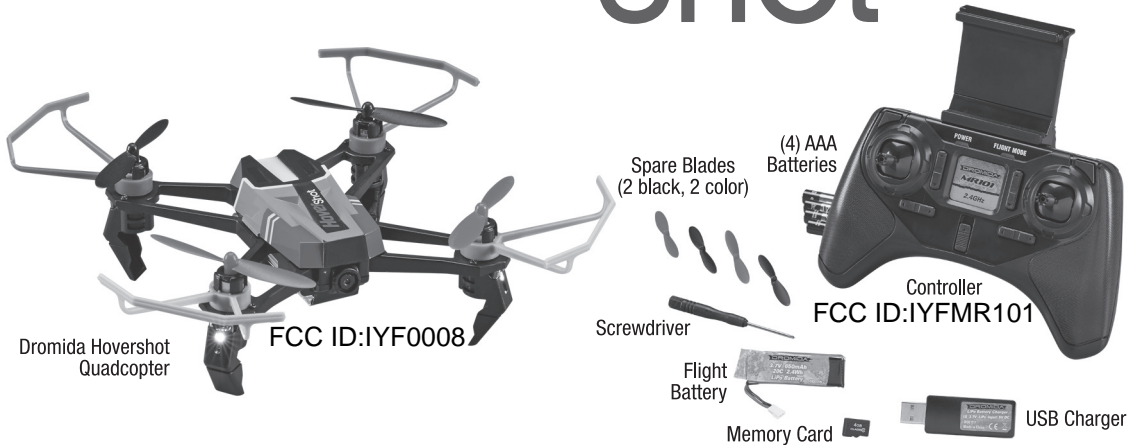**STOP**

BEFORE FLYING, PLEASE READ & UNDERSTAND THESE INSTRUCTIONS!
and go to *www.knowbeforeyoufly.org*

STOP

*Hover*Shot

Radio Controlled Quadcopter

Dromida Hovershot Quadcopter
FCC ID:IYF0008

Spare Blades (2 black, 2 color)

(4) AAA Batteries

Screwdriver

Controller
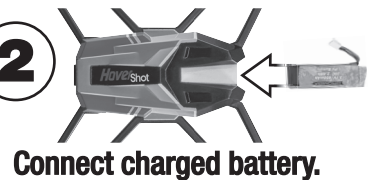FCC ID:IYFMR101

Flight Battery

Memory Card

USB Charger

⚠ TO PREVENT MOTOR DAMAGE ALWAYS BE SURE THE THROTTLE IS OFF WHEN THE BLADES ARE OBSTRUCTED OR CONTROL IS LOST.
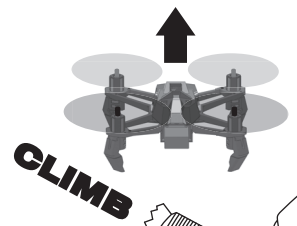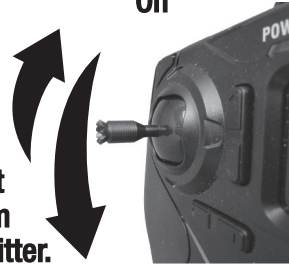
QUICK START FLYING GUIDE

1 On

2 Connect charged battery.

3 Do not move until LEDs stop flashing.

4 Use the left stick to arm the transmitter.

5 Hold for 1.5 seconds to start or stop motors.

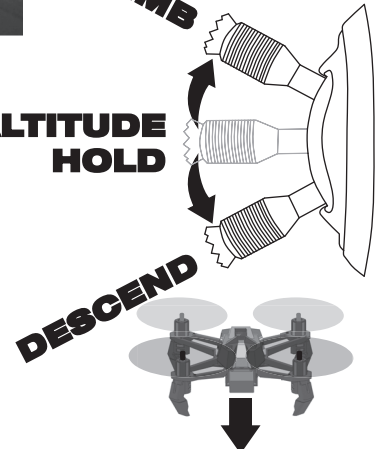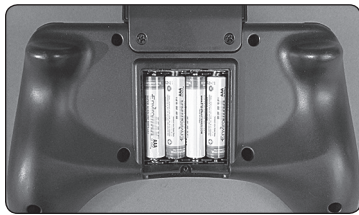**6** Press to Auto Takeoff or Auto Land

7 CLIMB
ALTITUDE HOLD
DESCEND

INSTALL BATTERIES IN THE CONTROLLER

Remove the screw and slide the cover down to insert the included 4 AAA batteries.

CHARGING

Plug charger into USB port or AC adapter (DIDP1125 not included) as shown and connect the battery. The red LED will flash slowly while the battery is charging. The LED will be steady when the battery is fully charged.
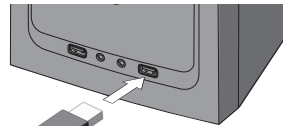
● **NEVER** leave the battery unattended while charging.
● **DO NOT** allow the USB port to power down while the charger is connected to the battery.
● **ALWAYS** unplug the charger from the USB port and the battery when charging is complete.
● The battery connector will only fit in one way.

CONTROLLER

Phone Holder

Auto Takeoff/Land

Throttle Trim

Video Button

Motor Start/Stop

Elevator Trim

Picture Button

On/Off

Rudder Trim   Aileron Trim

Throttle/Rudder Stick   Aileron/Elevator Stick

LINKING

The controller must be linked to the Hovershot and armed each time it is turned on. The Hovershot will NOT link with the controller until the quad is level and has been stationary for 3 seconds.

1. Turn on the controller and connect the battery to the Hovershot.

2. Place the Hovershot on a level surface and do not move it until the controller is armed. The LEDs on the quadcopter will flash rapidly while the sensors are initializing. The LEDs will flash slowly when the Hovershot is linked to the controller.

3. To arm the controller, move the throttle stick up to 100% and back down to 0%. Release the stick when the controller beeps. The LEDs on the Hovershot will stop flashing when it detects that the controller is armed.

The Hovershot is now ready to fly.

HOW to FLY

Basic Flight

NOTE: If you see that the Hovershot is going to crash, hold the Motor Stop/Start button to turn off the motors.

NOTE: Before making the first flight with the Hovershot, please perform the sensor calibration procedure described in the Maintenance and Repair Section.

Place the Hovershot on a level surface without any nearby obstacles, spectators, or pets. The quad should face away from you.

Hold down the Motor Stop/Start button until the motors start to spin.

Press the Auto Takeoff/Land button and the Hovershot will climb to about 3 feet. As long as the throttle stick is not moved, the quad will try to stay at this height. The Hovershot will also take off when the throttle stick is moved up. When the quad is at the desired height, release the stick. The Altitude Hold function will keep the Hovershot at that height until the throttle stick is moved again.

Pressing the Auto Takeoff/Land button while the Hovershot is flying will make the quad descend. When the quad reaches the ground, the motors will stop.

Ground Effect When the Hovershot is landing slowly and is very close to a flat surface, it will often bounce up and down or slide away from the landing point because some air is bouncing up off the landing surface. The Altitude Hold function will turn off the motors when the Hovershot is just above any solid object and the throttle stick is held below midpoint to make the landing smoother. Unless the Hovershot is landing, keep the quad several inches above the ground or other flat surfaces to avoid the ground effect.

WARNING: *To prevent damage to the motors, press the motor stop/start button whenever control is lost or the props cannot spin.*

DUAL RATES

Push in on the right stick to change the control sensitivity. The default setting is low rates with a blue Flight Mode Indicator. The indicator will change to orange when the controller is in high rates.

The sensitivity of the high and low rate settings can also be adjusted manually.

1. Select the setting to be adjusted.
2. Hold the throttle stick at the desired sensitivity (midstick is 50% of the maximum sensitivity).
3. Push down on the right stick until it beeps and release both sticks.

Please keep in mind that the low rate setting will be 50% less sensitive than high rates for the same throttle stick position.

2

FLIPS

To flip the Hovershot

1. Press down on the left stick until the controller beeps once.

2. Move the right stick in the desired flip direction.

3. *IMMEDIATELY* release both sticks so the controller will be ready when the flip is completed.

LOW VOLTAGE INDICATORS

The LEDs on the Hovershot will flash when the battery voltage is getting low. After 30 seconds, the quadcopter will automatically start to Autoland. **Always remove the battery and recharge it before storing the Hovershot.**

The controller will make 5 rapid beeps when AAA batteries need to be changed.

MOTOR OVERLOAD PROTECTION

The Dromida Hovershot is equipped with motor overload protection circuitry that shuts down the motors in the event the propellers become blocked by an obstruction and throttle is applied. In order to reset the overload protection you will need to free the Hovershot from the obstruction and cycle the power to the transmitter and the quad. If the overload protection is triggered repeatedly or late into a flight, then it may prematurely cause the low battery indicator to flash the LEDs. Disconnect the battery and wait several seconds before reconnecting it. If the LEDs continue to flash, then you must recharge the battery.

CAMERA

The camera on the Hovershot can record still photos and video onto a memory card. The camera lens angle can be adjusted from level with the quadcopter to down at a 45° angle.
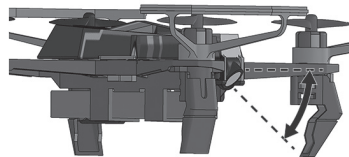
The memory card slot is on the left side of the Hovershot's body. Always insert and remove the card when the battery is NOT connected to the quadcopter.
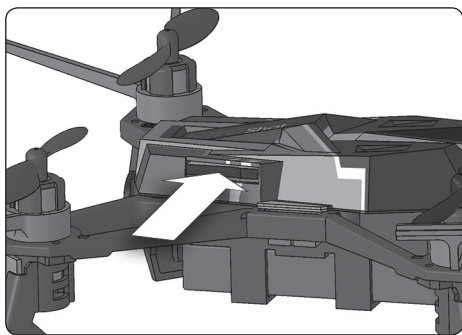
● The camera needs 30 seconds to set up before it can be used. Wait at least 30 seconds for a video to be saved before unplugging the Hovershot's battery.

● To avoid losing video files, the camera will save and start a new video every 5 minutes.

● The camera can capture a still photo while recording a video.

● The camera can use the Droneview APP to stream live video and control the camera with an Android or IOS device

USING THE DRONEVIEW APP

The DroneView app is free software for your WiFi-capable Apple or Android device that allows you to connect to the DroneView camera to use the FPV (First Person View) function as well as to take videos and pictures and upload and view them directly to your device.

1. Install the "DroneView" app from Google Play (Android) or the App Store (Apple).'

2. Insert the memory card into the camera and connect a charged LiPo battery to the Hovershot.

3. **iOS Only** - Go to the WiFi setting options in your device and select the DroneView network. The actual name of the DroneView network will vary from the photo shown here. It may take several seconds for the DroneView network to appear in the available network list in proximity to your device. No password is needed to connect to the DroneView network. **NOTE:** Android devices will automatically connect to the DroneView WiFi network when the DroneView app is opened.
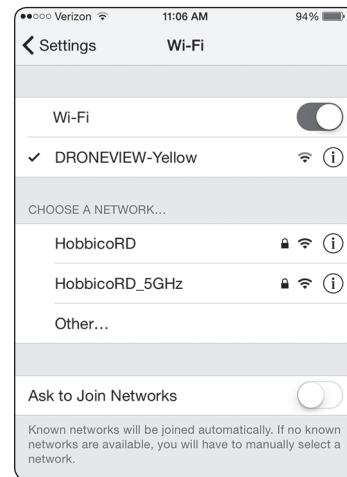
Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc. Android™ and Google Play are trademarks of Google Inc.

Wi-Fi® are Wi-Fi Alliance® are registered trademarks of the Wi-Fi Alliance.

Pull tabs on phone holder to expand and insert phone.

4. Grasp your device as shown and attach it to the phone mount on the controller by pushing up on your phone against the spring loaded top clip until you can fit the other side into the bottom clip.
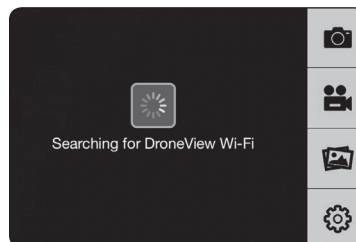
5. With your device connected to the DroneView WiFi network, open up the DroneView app. It may take several seconds for the app to locate and connect to the DroneView WiFi network.

NOTE: If you're in a populated WiFi environment, it may take longer.

Searching for DroneView Wi-Fi

3

Picture
Video
File Gallery
Settings

6. Once connected you will see on your device the image seen by the camera (referred to in this manual as the FPV feed). Press anywhere on the screen to pull up the main options.

Picture Button - Press to take a still image. Note: pictures cannot be taken with the app while recording is in progress.

Video Button – Press to start recording (red stop button appears on right when recording).

File Gallery Button – Opens gallery to display contents of memory card for viewing, exporting and deleting.

Settings Button – Opens the setting menu.

NOTE: The FPV feed is for the purposes of displaying what the camera is recording to improve the quality and accuracy of videos and pictures with respect to the pilot's intended field of view. We do not recommend attempting to fly the Hovershot relying solely on the FPV feed. Delays in the FPV feed can cause the image shown in the app to not represent the exact current position of the Hovershot. Any interruption of the FPV feed will not be present in the recorded video files. *Flying without maintaining line of sight of the quad is unsafe.*

FILE GALLERY

Opening the file gallery displays the contents of the memory card in the camera. Each thumbnail represents a picture or video. Videos have a small camera icon and the length of the videos on the thumbnails.
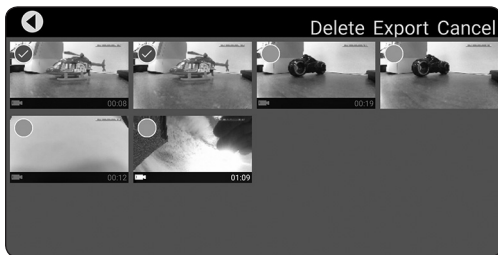
Pictures can be viewed by clicking on the picture thumbnails. In order to view videos, you must first export them by pressing

Select and then pressing each thumbnail that you wish to export. Press **Export** to upload the files to your device. Pictures and videos will be copied to your device's camera roll. They can also be viewed in the DroneView app after the exporting is complete by pressing the thumbnail you wish to view.

NOTE: We do not recommend exporting videos that exceed 3 minutes in length because of the amount of time it will take to export the files. For longer videos or a larger quantity of videos, we recommend removing the memory card from the camera and transferring the contents directly to a PC using a card reader.

When you have confirmed that the files have been successfully transferred to your device's camera roll, press **Select** and choose the files you wish to delete if you no longer want them in the file gallery.

SETTINGS
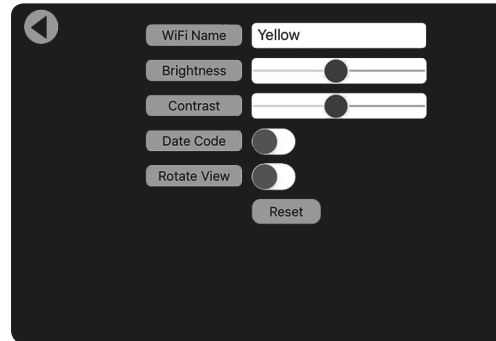
The settings menu allows you to change the WiFi name, adjust brightness and contrast, date code, resolution mode, and rotate camera view.

Changing the WiFi Name will change how the Camera is identified in the WiFi network list.

The **Brightness and Contrast** will adjust the FPV feed display qualities. Video and picture files will have the same display qualities as the feed. You may wish to experiment with these settings depending on lighting conditions and personal preferences. Press reset to return the brightness and contrast to the default values.

The **Date Code** will display the current date on the FPV feed when the Date Code is turned ON. The date will also be seen in video recordings and pictures in the same format as seen on the FPV feed. The Date Code is automatically updated to match the date of your device when connected via WiFi network.

Rotate View will rotate the FPV feed and recorded videos and pictures 180°. This feature is needed when the DroneView camera is used independently of the Hovershot with a separate R/C receiver and is mounted on top of a surface rather than underneath like on the Hovershot.

If you made any changes in the settings menu, then you will be prompted to save when exiting the settings menu. If you select NO when prompted to save then the changes will be discarded. **iOS Only** - If you change the WiFi name then you will need to exit the DroneView app and select the newly named network in the WiFi setting options of your device.

USING TWO DEVICES SIMULTANEOUSLY

The DroneView camera can be connected with up to two devices simultaneously. Two devices will have the ability to connect to the DroneView WiFi network and share the FPV feed from the camera. Both devices will also be able to take pictures and start/stop video recording.

NOTE: Exporting can only be done with one device at a time. Attempting to export files simultaneously from a DroneView camera to two devices may cause the transfer to freeze.

TROUBLESHOOTING

FLYING PROBLEMS

PROBLEM: The Hovershot will not respond to the controller.
SOLUTION: (1) Charge or change the battery in the Hovershot. (2) Turn off the controller and disconnect the battery for the Hovershot. Re-link the Hovershot and controller.

PROBLEM: Red controller LED light flashing after linking.
SOLUTION: Replace with new AAA batteries.

PROBLEM: Unable to flip.
SOLUTION: Battery voltage too low.

4