Thank you for your purchase of Protocol’s AeroFlux AP With Camera. You are about to experience the best of what remote control flight has to offer. We strongly recommend that you take the time to read this manual thoroughly. It contains many tips and instructions on how to get the most out of this aircraft and maintain it for a long life.

As with any aircraft, this is a precision flying machine. Treat it well and enjoy all the fun it has to offer, flight after flight.

THANK YOU.
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HAVE FUN, BUT SAFETY FIRST!

PRECAUTIONARY SAFETY WARNINGS:

- Read and follow instructions on how to synchronize electronics before each flight.
- To prevent damage to people or property, always avoid contact with other objects while in flight.
- Inspect aircraft prior to each flight and do not fly if damaged.
- Never expose product or any of its electronic parts to moisture, water or heat sources.
- Charge device in a cool, dry place and under adult supervision.
- Never leave the device unattended while charging.
- To prevent overheating, allow battery a cool-down period before recharging.
- To prolong engine life, allow a cool-down period between flights.
- Use only the charger and/or charging cable that is supplied with this item.
- Do not strike, cut or pierce the internal battery or subject it to hard impacts.
- Do not mix old and new batteries or mix different types of batteries.
- Never attempt to modify function of vehicle or controller or attempt repairs using parts other than those supplied by Protocol. Spare parts are available at www.protocolny.com

THIS DEVICE USES COMPONENTS THAT OPERATE AT HIGH SPEEDS, AS WITH ANY SUCH DEVICE, USE CAUTION TO OPERATE SAFELY. FAILURE TO FOLLOW ANY OF THESE GUIDELINES MAY RESULT IN BODILY INJURY OR DAMAGE TO PERSONAL OR PUBLIC PROPERTY.
**PARTS**

**DRONE**
1. Canopy
2. Blade Guard
3. Blade
4. Battery Compartment
5. Camera
6. Landing Gear

**REMOTE**
1. 2.4G Antenna
2. Power Switch
3. Trim Forward/Backward
4. Forward/Backward
5. Bank Left/Right
6. Video
7. Photo
8. Trim Bank Left/Right
9. Indicator Light
10. Throttle
11. Turn Left/Right
12. Speed Mode Selector
13. Take Off/Landing
14. Engine Start/Stop
REMOTE BATTERY INSTALLATION

Unscrew and remove battery cover from controller. Insert 6 x ‘AA’ batteries according to indicated polarities. Replace and screw back in battery cover.

1. Install batteries carefully.
2. Do not mix old and new batteries.
3. Do not mix different types of batteries.

INSTALLING THE BLADE GUARD & LANDING GEAR

If not already installed, install the included blade guards to every corner by snapping them in and tighten the screws at the base. Make sure the blade guards are secure and snug.

NOTE: Loose blade guards may interfere with propeller movement and cause a crash. If the drone crashes, double check to make sure the blade guard is not loose. If it is, re-tighten before flying.

Install the included landing gear.
CHARGING THE DRONE BATTERY

1. Make sure the drone is turned off.
2. Open the battery cover and remove the battery.
3. Connect the USB charging cable to the battery.
4. Plug the charger into a USB port. The USB light will turn off while charging and will turn on once fully charged.
5. Plug the battery back into the drone and close the battery cover.

Charging time: 90 minutes --- Flying time: approximately 7 minutes

*Battery: Li-Po, 3.7V, 550mAh

If you purchased extra batteries, allow the engines to cool between flights in order to prolong engine life.

CAUTION WHEN CHARGING

1. When charging, place product on a dry, well-ventilated surface and keep away from heat sources.
2. Always use adult supervision while charging.
3. In order to increase battery longevity, avoid repeat charging and excessive discharging.
4. As battery temperature is high immediately after flight, charge after cooling down for higher efficiency.
5. Do not strike or subject battery to hard impacts or sharp surfaces.
6. Do not use any other charger than that which is supplied with this item.
7. Do not use or leave battery near a heat source such as fire or space heater; exposure to heat may result in reduced performance or in some cases dangerous conditions.
8. If battery is left in charging state for an extended period of time after being fully charged, the battery may automatically discharge.
9. Never leave the battery unattended during charging.
10. Do not disassemble battery.
11. Do not submerge battery in water.

POWER-ON PROCEDURE

1. Turn on the drone and place it on an even surface.
2. Turn on the remote control.
3. Both indicators on the drone and the remote will flash while they are syncing.
4. Push the throttle up and then down to sync. You will hear two beeps and the lights will go steady after a few seconds.

Tip: When syncing your drone keep it in a horizontal position for stable flight.

NOTE

1. If the AeroFlux AP and the remote do not sync after following the checklist, reverse steps 1 and 2 of the process. Turn the remote and the drone off. Then, turn on the remote first and then the drone.
2. Turn on the controller; if, after 30 seconds, it has not recognized the drone, turn off the controller to retry synchronization.
3. If the AeroFlux AP is unsteady in flight, it may not have been able to calibrate horizontally. Power down both drone and remote and restart pre-flight procedure.
OPERATION: FLYING THE DRONE

STARTING THE ENGINE; ENGINE IDLE
1. After synchronizing the drone, press the engine start button to go into Idle mode. The blades will rotate but the drone will not lift.

TAKE-OFF:
1. Press the take off button, release, and the drone will lift off and over a few feet off the ground. Then gently advance the throttle to a desired height and release. The drone will hover at that height.

OR
2. From Idle mode, gently advance the throttle up to a desired height and release. The drone will hover at that height.

LANDING:
1. Press the landing button to lower the drone to the ground.

OR
2. Push down on the throttle until the drone is on the ground.

NOTE:
- Emergency Shut Off: When in flight, press the Engine Stop Button and the drone will shut off.

* The drone may drift a bit, especially in the first 30 seconds until the altitude sensor gets a good fix on the position. Some drift is normal.
SPEED MODES

The AeroFlux AP features multiple speed modes. Choose the speed based on flight experience and level of comfort. At higher speeds, the drone will pitch more than at lower speeds. AeroFlux AP is quite fast at its highest speed and requires more piloting skills to fly competently. For safety take time to develop advanced skills by practicing at lower speeds first. Press the Speed +/- button to change the speed mode. The remote control indicator will beep once at slowest speed mode and multiple times as speed mode is increased.

*Some models have up to four speeds. 4 beeps indicate maximum speed. Press again to cycle back to slow speed (1 beep.)

TRIM ADJUSTMENT

SIDEWAYS TRIM

When the drone drifts to the left or right side unintentionally, you can correct it by pressing the trim button in the opposite direction until it evens out.

FORWARD/BACKWARD TRIM

When the drone drifts forward/backward unintentionally, you can correct it by pressing the trim button in the opposite direction until it evens out.

*NOTE: Trim adjustments are designed to counter drifts not caused by wind.
TROUBLESHOOTING

*Allow 15 minutes to pass between full flights as this will give the motors a chance to cool down. Failure to do so could wear out and shorten the life of the motors.

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<th>SYMPTOM</th>
<th>POSSIBLE CAUSE</th>
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| AeroFlux AP does not respond     | 1. Communication between controller and aircraft was not synchronized during set up  
2. Battery power depleted on aircraft, controller or both. | 1. To synchronize, turn on aircraft first, place it on level ground, and then turn on controller.  
2. Charge aircraft and/or replace batteries in controller. |
| Response to control inputs       | 1. Controller battery power nearly depleted.                                | 1. Replace batteries in controller.                                                |
| intermittent or erratic          |                                                                                |                                                                                    |
| AeroFlux AP will not hover or strafe correctly | 1. The aircraft was not on level ground during synchronization.  
2. Trim settings are incorrect. | 1. Re-synchronize aircraft and controller.  
2. Reset the trim buttons on the controller and re-trim flight controls. |

* RE-CALIBRATING THE DRONE

If the drone does not fly correctly even after adjusting the trim, you can re-calibrate. Push the throttle to the lower left corner and direction lever to the lower right corner and hold for 3 seconds. The lights will flash and then go steady once calibrated.

FLYING OUTDOORS

HOW TO PREVENT FLY AWAYS

To prevent “fly-away” situations (where drones seem to fly away out of control) it is important to first test and practice within close range before letting the drone fly too far away.

Each drone is designed to land if the radio signal is lost. (But, this should not be considered a landing procedure or normal flight practice.) It is important to know and test the range of your drone before flying. We recommend turning on and syncing the drone and walking away while testing the engines. Keep walking and testing until it is obvious when you reach the point where the signal is not controlling the drone. This will be the control limit for the conditions in which you are flying. Distance does vary somewhat based on environmental and weather conditions, so testing the limit is advised. Fly in a range that is good for easy visual operation of the drone.

IF YOU CAN’T SEE YOUR DRONE, THEN YOU CAN’T CONTROL YOUR DRONE.

Fly-aways are not covered by warranty as they are overwhelmingly caused by pilot error.
**REPLACEMENT PARTS**

Thank you for your purchase of Protocol’s AeroFlux AP with Camera. We know that accidents can sometimes happen and that is why we offer spare parts kits on our website: [www.ProtocolNY.com](http://www.ProtocolNY.com).

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**SHOOTING PHOTO/VIDEO**

1. The memory card comes pre-inserted into the camera.

**SHOOTING PHOTOS AND VIDEO**

1. Turn on the drone and sync.
2. Photo: Push the Photo button and the camera will take a photo. The light on the camera will flash once as it’s taking the picture.
3. Video: Push the Video button and the camera will begin to record. The light on the camera will flash continuously while recording. Push the Video button again and the camera will stop recording.
4. Press the memory card to unlock and remove. Plug it into the USB card reader. Then plug the card reader into the USB port of your computer. If you are using Windows, the USB will come up on the removable drive. If you are using OS, then the USB will come up as “Untitled”.
5. Open the drive and then open the Video or Photo folders to access the .AVI or JPEG files.
6. .AVI movies can be played in several different formats including Quicktime, Windows Media Player, and RealPlayer.

**WARNING:** Never remove the card from the video camera while the drone is turned on.

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**LIMITED WARRANTY**

At Protocol, we’re dedicated to bringing you innovative and well-designed products that make living fun and easy. We stand behind all of our products and warrant this to be free from defects in workmanship and materials for 30 days from the date of purchase. The warranty does not cover transportation damage, misuse, accident, or similar events. Specific legal rights pertaining to this warranty may vary by state.

For service claims or questions please consult our website [www.ProtocolNY.com](http://www.ProtocolNY.com).