DRONIUM ONE



4-CHANNEL RADIO CONTROLLED **VIDEO QUAD-COPTER**

FEATURING:

- 1. Four-Rotor design allows great speed and maneuverability for both Indoor and Outdoor use.
- 2. Built-in 6-axis Gyro ensures excellent stability. 3. Modular design for increased ease of maintenance
- 4. 360-degree 3-dimensional stunt and tumbling function

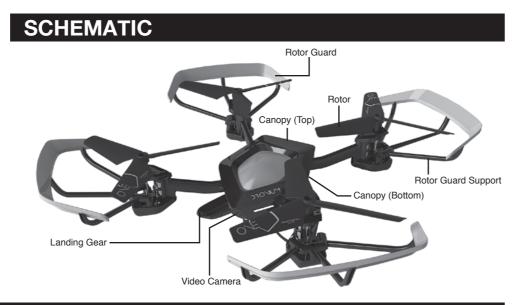
The materials and specifications stated in this instruction manual are for reference only.

PROTOCOL.

Pilot's Handbook for DRONIUM ONE 4 CH. RC VIDEO QUAD-COPTER

Thank you for your purchase of Protocol's **Dronium One 4 Channel RC** Video Quad-Copter. 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 of this aircraft and maintain it for 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.

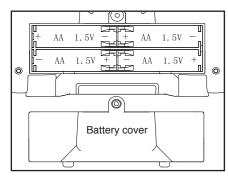


SAFETY AND PRECAUTIONS

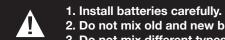
- 4. Keep the battery away from heat sources and / or fire.
- 5. Keep the quad-copter at a distance of at least 2 meters from yourself, others, and obstacles
- 7. The remote controller batteries can not be recharged. Do not mix new batteries with old batteries
- 8. Always turn off both the transmitter and quad-copter when not in use

BATTERY INSTALLATION

Remote Control

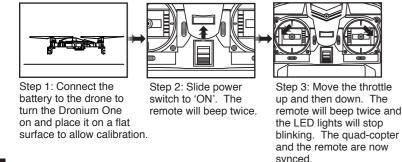


Remove battery cover from controller, insert 4 'AA' batteries, noting polarity indicators. Replace battery cover.



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

FLYING THE QUAD-COPTER



NOTE

- 1. If the Dronium One and the remote do not sync after following the checklist, reverse the first two steps of the process. Turn both the Dronium One and remote off. Then, turn on the remote first and then turn on the Dronium One. Follow with Step 3.
- 2. Turn on the controller; if, after 30 seconds, it has not recognized the quadcopter, turn off
- the controller to retry synchronization. 3. If quad-copter's LED blinks slowly, it means that it has not recognized the controller; please
- restart pre-flight procedure. 4. If the Dronium One is unsteady in flight, it may not have been able to calibrate horizontally.
- Power down both vehicle and remote and restart pre-flight procedure.

WARNING: Never remove the card from the video camera while the helicopter is turned on. - All files on the card can be removed or erased without compromising the video camera.

TROUBLESHOOTING Possible Cause Potential Solution Communication between controller 1. To synchronize, turn on controller, then turn on aircraft and place it on level and aircraft was not synchronized during ground. Move throttle stick all the way vnchronization effort. Dronium One forward, then all the way back. does not Battery power depleted on either aircraft, espond 2. Charge aircraft and/or replace controller, or both. batteries in controller. 1. Replace batteries in controller. . Controller battery power nearly depleted. esponse to control inputs Aircraft antenna is damaged. 2. Repair antenna. or erratic . The aircraft was not on level ground Dronium One Re-synchronize aircraft and controller. will not hover during synchronization or strafe 2. Reset the trim buttons on the controller 2. Trim settings are incorrect. and re-trim flight controls.

Replacement Parts:

Thank you for your purchase of Protocol's Dronium One 4-Channel RC Video Quad-Copter!

We know that accidents can sometimes happen and that is why we offer spare parts kits on our website: ProtocolNY.com.

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, crashes, accident, or similar events. Specific legal rights pertaining to this warranty may vary by state. For service claims or questions please consult our website ProtocolNY.com.

- 1. Keep small parts out of reach of children to avoid accidents.
- 2. The quad-copter is powerful and fast; accelerate gently to avoid damage and accidents. 3. After flying, disconnect the battery.
- 6. Children should operate the quad-copter only under adult supervision.
- or mix batteries of different types.
- 9. Never attempt to short-circuit the battery terminals or the quad-copter

INSTALL BLADE PROTECTION FRAME



Install the blade protection frame to every corner and tighten the screws (Figure 1).

NOTE: If the quad-copter crashes, double check to make sure the blade protection frame is not loose. If it is, re-tighten before flying.

HIGH, MEDIUM, & LOW SPEED MODES

The Dronium One features 3 speed modes. Low speed is at 40%, Medium is at 70%, and High is at 100%. Choose the speed based on flight experience and level of comfort.

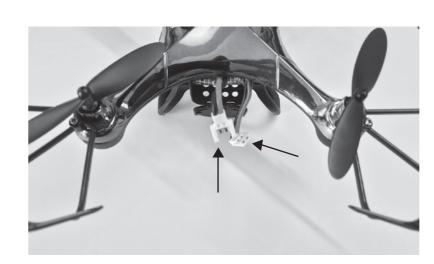
Press the speed mode button to adjust speed.

- 1. Clean the quad-copter with a clean, soft cloth.
- 2. Do not leave the quad-copter in the sun or a bright light.
- 3. Do not expose quad-copter or its electronic parts to moisture or water. 4. Regularly check connections and other parts.
- 5. If you find any defective part, stop flying until the repair.

READ FIRST BEFORE YOU FLY

1. Open battery cover (shown below) 2. Remove the battery from the quad-copter.

MAINTENANCE



Charging the Quad-Copter's On-Board Battery

Connect the battery to the supplied USB charging cable. Insert the USB end of the charging cable into the USB port of any computer (or a USB port power adapter) to begin charging aircraft. The red LED indicator will turn off during charging and will go on when the charging cycle has completed.

50 minutes of charging yields 5 minutes of flight.

- 1. When using a computer USB port as power source, remember to unplug the USB cable prior to shutting down computer. 2. Take care to insert charging cable in
- correct orientation as reversing the polarity may lead to malfunction. *Paparazzi uses a 3.7V 350MA Li Po Battery

Move the left stick to the right.

Nove the left stick to the left

Move the left stick upward.

Fine-tune turning left/right-

When quad-copter spins

to the left or right too

much, push this button

in the opposite direction

GO UP

Move the left stick down.

DRONIUM ONE CONTROL

1 Turn

Turn

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Move the right stick to the left.

Move the right stick to the right

Move the right stick forward.

even it out.

Fine-tune strafe left/right-

push this button in the

Move the right stick backward

opposite direction to even

When quad-copter veers to

When guad-copter veers forward

or backward too much, push this

button in the opposite direction to

ILLUSTRATION ON QUAD-COPTER CONTROLLER

1. When charging, place product on a dry, well-ventilated surface and keep away from heat sources.

3. As battery temperature is high immediately after flight, charge after cooling down for higher efficiency.

6. Do not use or leave battery near a heat source such as a fire or space heater; exposure to heat may

7. If battery is left in charging state for an extended period of time after being fully charged, the battery

CAUTION WHEN CHARGING

2. Always use adult supervision while charging.

8. Never leave the battery unattended during charging.

BATTERY REPAIR & MAINTENANCE

may automatically discharge.

4. Do not disassemble battery.

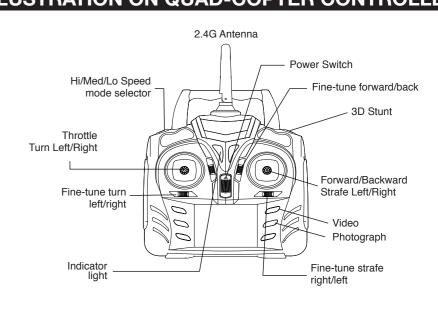
4. Do not strike or subject battery to hard impacts or sharp surfaces. 5. Do not use any other charger than that which is supplied with this item.

result in reduced performance or in some cases dangerous conditions.

1. Do not immerse or submerge battery in water; store in a cool, dry location.

3. Charging battery approximately 55% capacity prior to long-term storage.

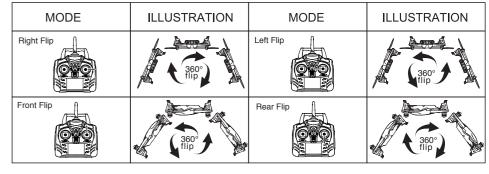
2. In order to increase battery longevity, avoid repeat charging and excessive discharging.



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TIPS ON 3D STUNT & TUMBLING OPERATION

Once you are familiar with the basics of quad-copter flight, you can try some advanced maneuvers! Slowly raise the throttle. Press the 3D Stunt button. The remote will beep continuously and the drone is ready to flip. Once you have completed a flip, the drone will automatically go back to normal mode.



TOSS N' LAUNCH

Thanks to the 6-axis gyro, you can toss the quad-copter and push the throttle up. It will automatically level out and hover smoothly in the sky.

PHOTOGRAPHY/VIDEO INSTRUCTIONS 1. The memory card comes pre-inserted into the camera.

2. Turn the quad-copter on. The blue light of the camera will flash and then become steady. If the red indicator on the camera is continuously flashing, it means the memory card is not in the

Shooting Photos and Video: 1. Turn on the transmitter and pull the throttle up and down to connect the quad-copter

and transmitter

2. Photo: Push the Photo button and the camera will take a photo. The red indicator will flash once

camera. Please insert the memory card and the red indicator will turn off.

- as it's taking the picture. 3. Video: Push the Video and the camera will begin to record. The red indicator will stay on while recording video. Push the Video button again and the camera will stop recording.
- 4. Plug the data transfer cable into the jack on the camera. 5. Place the USB end of the cable 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
- 6. Open the drive and then open the Video or Photo folders to access the .AVI or JPEG files.
- 7. .AVI movies can be played in several different formats including Quicktime, Windows Media Player, and RealPlayer.

Note: While fine-tuning flight characteristics, maintain constant position and altitude.

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PROTOCOL