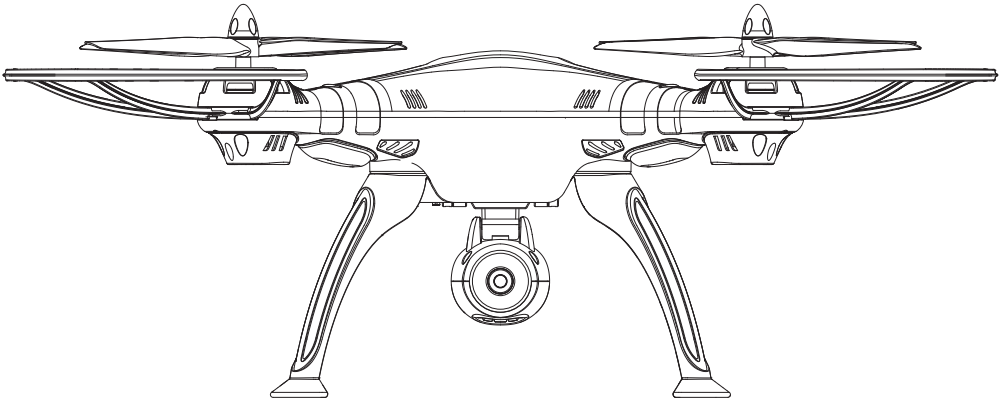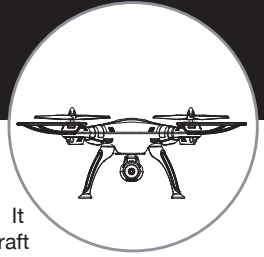# GALILEO WITH WIFI™

RADIO CONTROLLED
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
5. WiFi Photo/Video

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

PROTOCOL®

Pilot's Handbook for
GALILEO WITH WIFI
RC VIDEO DRONE

Age
14+

Thank you for your purchase of Protocol's **Galileo with WiFi**. 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.
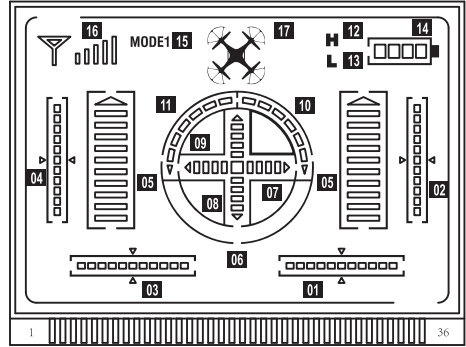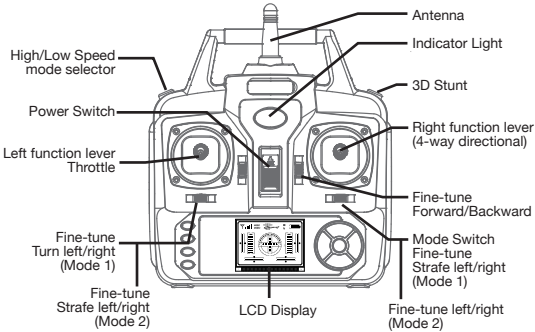
SCHEMATIC

Canopy (Top)

Rotor

Rotor Guard

Canopy(Bottom)

Landing Skid

Camera
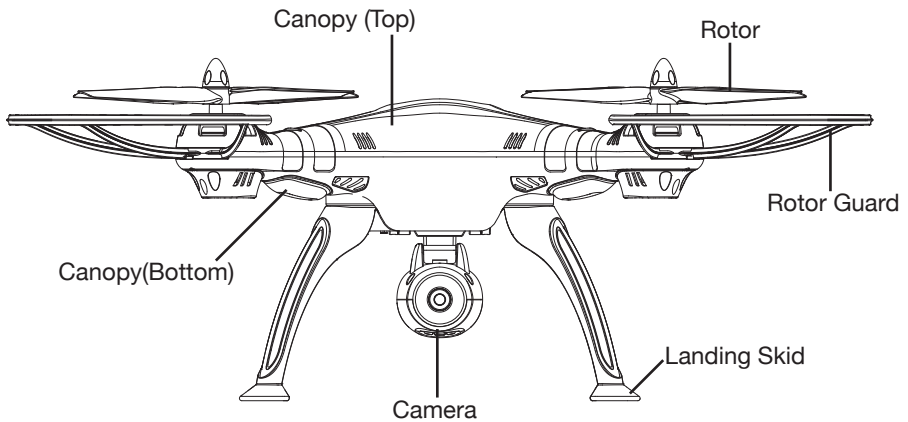
SAFETY AND PRECAUTIONS

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.
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 to prevent damage.
6. Children should operate the quad-copter only under adult supervision.
7. The remote controller batteries can not be recharged. Do not mix new batteries with old batteries or mix batteries of different types.
8. Always turn off both the transmitter and quad-copter when not in use.
9. Never attempt to short-circuit the battery terminals or the quad-copter.

REMOTE CONTROL KEYPAD AND LCD MANUAL

High/Low Speed mode selector

Power Switch

Left function lever
Throttle

Fine-tune
Turn left/right
(Mode 1)

Fine-tune
Strafe left/right
(Mode 2)

LCD Display

Antenna

Indicator Light

3D Stunt

Right function lever
(4-way directional)

Fine-tune
Forward/Backward

Mode Switch
Fine-tune
Strafe left/right
(Mode 1)

Fine-tune left/right
(Mode 2)

Remote Control Keypad and LCD Manual

01. Fine-tuning: Side-to-side Strafing [defaults to center on start-up]
02. Fine-tuning: Forward/Backward [defaults to center on start-up]
03. Fine-tuning: Turn Left/Right [defaults to center on start-up]
04. Fine-tuning: Throttle [defaults to center on start-up]
05. Throttle [defaults to zero on start-up]
06. Directional Display [defaults to center on start-up]
07. Lateral Movement to Right
08. Rearward Movement
09. Lateral movement to Left
10. Right rotational movement [defaults to zero on start-up]
11. Left rotational movement [defaults to zero on start-up]
12. High Speed Mode Active
13. Low Speed Mode Active
14. Controller Battery Level Indicator
15. Flight Mode 1 Active (Default); To change to Mode 2, press and hold Mode Switch to the right while turning on the transmitter.
16. Remote control signal strength
17. Indicates positive communication lock with the Galileo
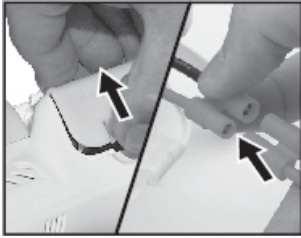
BATTERY INSTALLATION

Remote Control

Battery cover

4 X 1.5V AA
batteries
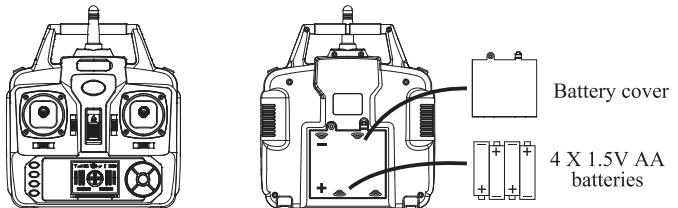
Remove battery cover from R/C unit, insert 4 'AA' batteries, noting polarity indicators. Replace battery cover.
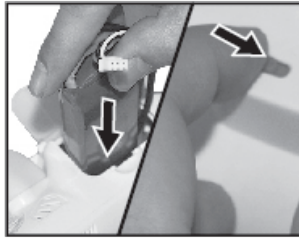
⚠️ **1. Install batteries carefully.**
2. Do not mix old and new batteries.
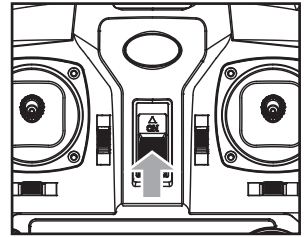**3. Do not mix different types of batteries.**
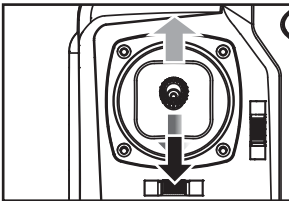
2

FLYING THE QUADCOPTER

Step 1: Open the battery cover and insert the battery into the power port.
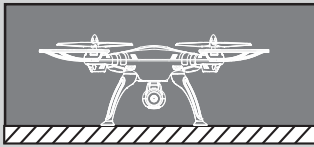

Step 2: Close the battery cover and turn on the quad-copter.

Step 3: Push the ON/OFF power switch up.

Step 4: Push the throttle lever to the highest position, and then pull it back to the lowest position. There will be two beeps from the transmitter. This shows that the quad-copter has synced with the remote.


Tips: When syncing your quad-copter keep it in a horizontal position for stable flight.

NOTE

1. If the Galileo and the remote do not sync after following the checklist, reverse steps 1 and 3 of the process. Turn the remote and Galileo off. Then, turn on the remote first and then the Galileo. Follow with Step 4.
2. Turn on the controller; if, after 30 seconds, it has not recognized the drone, 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 Galileo is unsteady in flight, it may not have been able to calibrate horizontally. Power down both vehicle and remote and restart pre-flight procedure.

Tips: When syncing your quad-copter keep it in a horizontal position for stable flight.

CHARGING THE QUAD-COPTER BATTERY
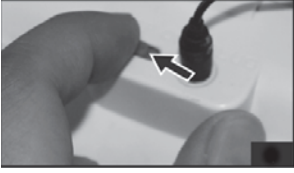
1. Push the on/off switch of the quad-copter to OFF and open the battery cover.

2. Pull out the battery wire from the power port.

3. Connect the charging adapter to the battery wire.

4. Plug the adapter into an AC charger and charge. The green charging light will turn on while charging and will go off once charged.

5. Reconnect the battery wire to the power port and close the battery cover.

Charging time: approximately 200 minutes --- Flying time: approximately 7 minutes

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. As battery temperature is high immediately after flight, charge after cooling down for higher efficiency.
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.
6. 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.
7. If battery is left in charging state for an extended period of time after being fully charged, the battery may automatically discharge.
8. Never leave the battery unattended during charging.

BATTERY REPAIR & MAINTENANCE

1. Do not immerse or submerge battery in water; store in a cool, dry location.
2. In order to increase battery longevity, avoid repeat charging and excessive discharging.
3. Charge battery to approximately 55% capacity prior to long-term storage.
4. If battery sees no use for extended periods of time, it is recommended that battery voltage is kept above 3V. Check monthly and recharge as needed.
5. Do not disassemble battery.

INSTALL LANDING SKIDS, BLADES, & BLADE GUARDS

FIG. 1

FIG. 2
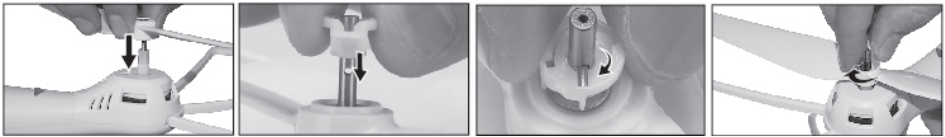
FIG. 3

1. Install the landing skids to the bottom of the quad-copter (Figure 1).
2. Install the blade protection frame to every corner and tighten the screws (Figure 2).
3. Installing the blades (Fig. 3):
   a. Remove the lockstitch from the axis pipe by twisting it in the direction of the arrows on the lockstitch until you hear a click. You may want to use a tissue or a cloth as you twist.
   b. Pull the lockstitch down to expose the locking bar. Slide the bar out of the axis pipe and slide the lockstitch off the axis pipe.
   c. Slide the blade onto the axis pipe with the metal side up. Push the blade all the way down so it fits snugly over the plastic part of the axis pipe.
   d. Slide the lockstitch down on the axis pipe.
   e. Align the opening on the lockstitch with the hole in the axis pipe. Insert the locking bar into the axis pipe and turn the lockstitch until you hear another click. The blade is now installed.
   f. Slide the silver cap over the axis pipe until it is snug.

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.

NOTE: If you prefer to not install blade guards, fillers are included to place in the slots instead.
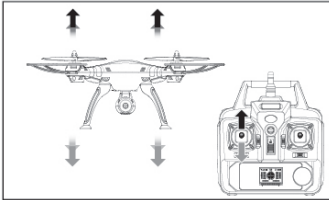
HIGH-LOW SPEED MODES

The Galileo features 2 speed modes. Low speed is for beginners and high speed is for advanced users.

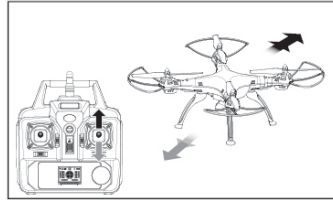Press the speed mode button to adjust speed.

High/Low Speed mode selector
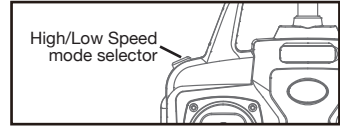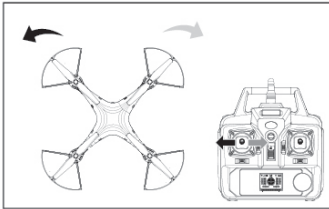
OPERATION (MODE 1)

HOVER UP AND DOWN

Push the throttle up or down, the quad-copter flies upward or downward.
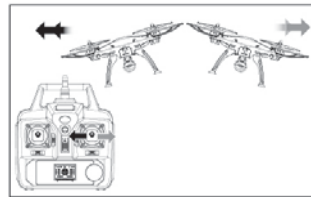
FORWARD AND BACKWARD

Push the direction lever up or down, the quad-copter flies forward or backward.

TURNING LEFT AND RIGHT

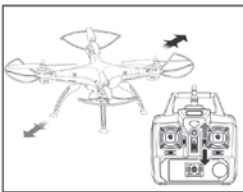Pull the throttle left or right, the quad-copter turns to the left or right.

SIDEWAYS FLIGHT

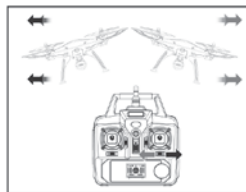Pull the direction left to the left or right, the quad-copter banks to the left or right.

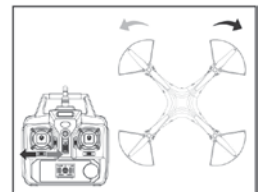## TRIM ADJUSTMENT

FORWARD/BACKWARD TRIM

When the quad-copter veers forward/backward unintentionally, you can correct it by pressing the trim button in the opposite direction until it evens out.

SIDEWAYS TRIM

When the quad-copter veers to the left or right side unintentionally, you can correct it by pressing the trim button in the opposite direction until it evens out.
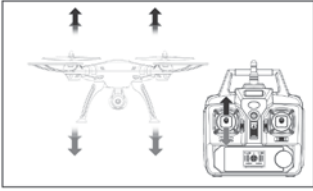
LEFT/RIGHT TRIM

When the quad-copter keeps spinning left or right unintentionally, you can correct it by pressing the trim button in the opposite direction until it evens out.
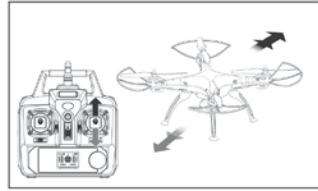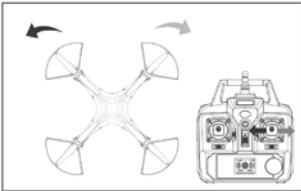
6

OPERATION (MODE 2)

HOVER UP AND DOWN

Push the throttle up or down, the quad-copter flies upward or downward.
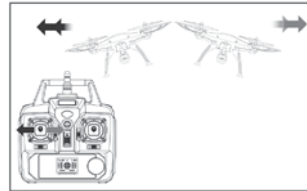
FORWARD AND BACKWARD

Push the direction lever up or down, the quad-copter flies forward or backward.

TURNING LEFT AND RIGHT

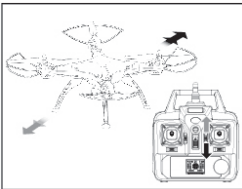Pull the direction stick left or right, the quad-copter turns to the left or right.

SIDEWAYS FLIGHT

Pull the throttle left to the left or right, the quad-copter banks to the left or right.
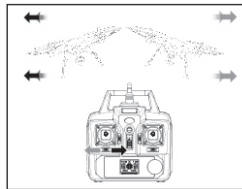
TRIM ADJUSTMENT
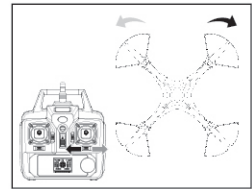
FORWARD/BACKWARD TRIM

When the quad-copter veers forward/backward unintentionally, you can correct it by pressing the trim button in the opposite direction until it evens out.

SIDEWAYS TRIM

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

LEFT/RIGHT TRIM

When the quad-copter keeps spinning left or right unintentionally, you can correct it by pressing the trim button in the opposite direction until it evens out.

7

TROUBLESHOOTING

| Symptom	Possible Cause	Potential Solution
Galileo 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 controller, then turn on aircraft and place it on level ground. Move throttle stick all the way forward, then all the way back. 2. Charge aircraft and/or replace batteries in controller.
Response to control inputs intermittent or erratic	1. Controller battery power nearly depleted.	1. Replace batteries in controller.
Galileo 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.

Restart function:
In case of flight disorder, restore factory default settings by the following methods:

1. Press the power switch to turn on the transmitter.
2. Press the power switch to turn on the quad-copter.
3. When the quad-copter indicator flashes slowly, push the throttle lever to the highest position, and then pull it back to the lowest position. The quad-copter indicator will change from slow flashing to steady mode.
4. Place the quad-copter on a horizontal position, then push both left and right lever on the transmitter to the lowest right corners for 2-3 seconds. The indicator on the quad-copter will change from normal light to quick flashing light. After 2-3 seconds the indicator will change back to the normal light. This means the quad-copter has restarted/reset successfully.

TIPS ON 3D STUNT & TUMBLING OPERATION

Once you are familiar with the basics of quad-copter flight, you can try some advanced maneuvers! At a height of at least 10 feet, press the STUNT button [on controller's right side] then move the right stick in whichever direction desired to perform a 360-degree flip in that direction.
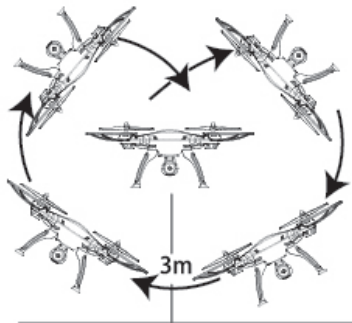
CAMERA
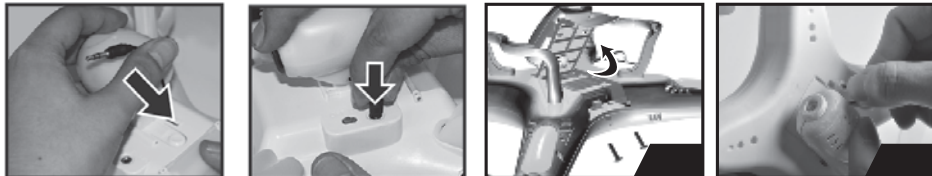
If the camera is not pre-installed:
1. Push the camera into the hold underneath the drone.
2. Plug the camera into the drone.

NOTE: Do not unplug or plug in the camera while the drone is on.

PHONE MOUNT

Phone Mount
1. Slide the phone mount onto the remote control's antenna.
2. Press the clamp and insert the smartphone.

Replacement Parts:

Thank you for your purchase of Protocol's **Galileo RC Video Drone.** 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.**