9105 QUADCOPRER WITH CAMERA

Instruction Manual

Please read caregully before use!

Technical Data

Size:	235x335x85mm
Weight:	105g
Recommended Age:	8 years & up
Field of use:	indoor and outdoor
Battery:	3.7v LiPo, 650mAh
Transmitter:	2.4GHz
Remote Control Distance:	approx.80 meter
Battery Charging Time:	approx.60-90 minutes
Playing Time:	approx.8-10 minutes

Play Features:
Forward / Backward ; Up / Down ; Left / Right Turn ; Left Side / Right Side Move ; Hover ; Photo / Video ; 360° Flip ; High / Low Speed Control ; Light Control

SAFETY ADVICE:

WARNING:
NOTE THE FOLLOWING ADVICE,
TO AVOID DAMAGES AND SHORTCUTS:
DO NOT EXPOSE THE PRODUCT TO WATER
DO NOT DISSAMBLE THE PRODUCT
INNER PARTS CAN BE REPAIRED BY THE USER
PLEASE CONTACT YOUR DEALER IF YOU ARE NOT FAMILIAR WITH RC MODELS.

BATTERY WARNING - LI BATTERY

* Mishandling the battery may cause explosion, fire and smoke including damage to health or goods.It will also reduce battery performance.
* Never charge a damaged LiPo battery pack. Stop charging if the LiPo battery pack is getting deformed.
* Do not charge the LiPo battery pack at a temperature between 0°C to 40°C. Avoid a temperature higher than 50°C when discharging.
* Do not short circuit - risk of explosion and fire!
* The battery must be charged with the charger provided.
* Do not overcharge the battery. Pull out the charger after the battery is fully charged to avoid overcharge.
* Pull out the plug immediately if the charger has smell, noise or smoke.
* In case of battery leak, avoid touching the liquid. Wash immediately with soap and waterion skin contact.
* Do not discard LiPo battery in the fire. Keep battery away from liquid, rain and fire!
* Do not attempt to disassemble, drill or cut up the battery.
* Never attempt to clean the charger with dissolvent, industrial alcohol or other flammable solvent.
* Pull out the batteries before extended storage.

This product uses LiPo batteries. LiPo batteries are recyclable, and a valuable resource. To dispose of the battery, remove it and take it to a resource recovery facility.

PRODUCT CONTENT:

Please check the content before using the product!

1xQuadcopter

For using,you will additionally require 6 AA-batteries

Setup and functions

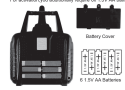
Controller

By pressing the reset button, all controller settings (trims) will be deleted.
In order to optimally balance the model in the air, you can adjust the attitude by pressing the trim buttons.

Please note!
Do not fly near trees,ore people, animals or obstacles nearby!
Do not fly on strong wind or bad weather!
Make sure that you are allowed to fly in the selected area!
Keep your model in sight at all times! Make sure it is always switched on during use. Do not switch off before the model is switched off!

BATTERY INSTALLATION OF CONTROLLER

Read the manual carefully!
The Quadcopter is a RTR(Ready-to-Fly)model.
For activation,you additionally require 6 1.5V AA batteries for the controller.



Assembly of the battery cover the metal attachment of transmitter shall insert first and tentensioned immediately.

BATTERY CAUTIONS:
* Do not use rechargeable batteries.
* Do not attempt to recharge non-rechargeable batteries.
* Do not mix old & new batteries. Always follow the toy & battery manufacturer's instructions.
* Use only the same or the equivalent type of battery as recommended.
* Do not short circuit the supply terminal.
* Do not mix old & new batteries. Do not mix different kinds of batteries (such as alkaline, standard (carbon-zinc) or rechargeable (nickel-cadium).
* Always remove exhausted or dead batteries from the product.
* Remove batteries from the product before extended storage.

Charging the battery

You can charge the LiPo-battery with the supplied USB cable.

Plug the charger to a USB port / USB-power adapter.
Connect the LiPo battery to the charger. Check the polarity and also that the plug is firmly connected.
The charger LED will flash.
Charging takes around 60-90 minutes. Once the battery is fully charged, the LED will shut down.

Please only use the original battery, as batteries from another supplier might use another polarity!

Mounting the landing gears and propeller guards

Only a few steps are required to start flying.

Put the twin landing gears in the provided holes on the bottom of the Quadcopter

To mount the propeller guards, please follow these steps:
- Turn out the screw from the bottom of each arm
- Now place the rotor protection
- Turn in the screw again

Inserting the battery

Switch on the controller. The LED starts flashing. Pull down the gas stick (left lever).

Once the battery is fully charged, insert it into the case on the bottom of the model.
Check the polarity before you connect the battery!
Do not force!
Always switch on the controller before you connect the battery!

The On/Off switch is located between the rear rotors.

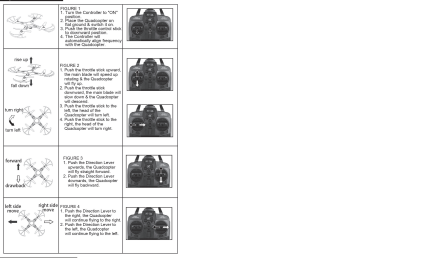
Beginner and Professional mode

Beginner mode: Recommended for beginners and inexperienced users. The rotors flies with lower speed in beginner mode. This helps you to stabilize your aircraft. When choosing for a additional modes, the model will fly faster and more agile.
When changing the modes, press the left button on the top of controller while the model is already **activated**.

A beep sound will confirm the setting. The different modes are being displayed by various sounds.

1 - Beginner
2 - Beginner plus
3 - Advanced
4 - Professional

Operation Method

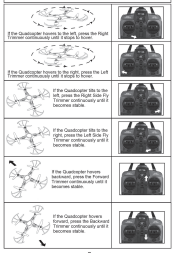


OPERATION GUIDES

Tips:

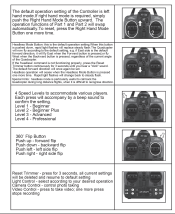
While the Quadcopter is flying or hovering in different directions, push the Left Trimmer, Right Trimmer and press the Trimming button at the same time to adjust the flying angles.

Notice:	It is normal that the Quadcopter will become unstable when the flying distance is ~ 50 m(above ground) owing to gravity.



If the Quadcopter hovers to the left, press the Right Trimmer continuously until it stops to hover.	
If the Quadcopter hovers to the right, press the Left Trimmer continuously until it stops to hover.	
If the Quadcopter tilts to the left, press the Right Side Fly Trimmer continuously and it becomes stable.	
If the Quadcopter tilts to the right, press the Left Side Fly Trimmer continuously and it becomes stable.	
If the Quadcopter hovers backward, press the Forward Trimmer continuously until it becomes stable.	
If the Quadcopter hovers forward, press the Backward Trimmer continuously and it becomes stable.	

OPERATION GUIDES



The default operation setting of the Controller is left hand mode.If right hand mode is required, simply push the Right Hand Mode Button upward. The Controller will beep twice & the LED will flash twice automatically. To reset, press the Right Hand Mode Button one more time.

Headless Mode: Mode is ideal for beginners operating a Flying Wing. This mode is inspired by drones, specifically features will release beginner flyers. The quadcopter will automatically remember the direction it faces when it first takes off. Regardless of the direction the quadcopter is facing, the forward button will always make it fly away from the pilot, the backward button will always make it fly toward the pilot, the left button will always make it fly to the pilot's left side and the right button will always make it fly to the pilot's right side.
If the headless command is not functioning properly, press the Reset Trimmer button to reset the quadcopter's direction. Headless mode is not recommended for experienced users.
The Headless Function Button is the Left Trim button. Pressing the Left Trim button will activate headless mode. Pressing the Left Trim button a second time turns "Headless" off. Headless mode is intuitive, but it can be difficult for experienced users who are accustomed to the controls. "Headless" Mode is not recommended for experienced users.

4 Speed Levels to accommodate various players. Each press will accompany by a beep sound to indicate the speed level.
Level 1 - Beginner
Level 2 - Beginner Plus
Level 3 - Advanced
Level 4 - Professional

360 Flip Button
Push up - forward flip
Push down - backward flip
Push left - left side flip
Push right - right side flip

Reset Trimmer - press for 3 seconds, all current settings will be deleted and return back to factory settings.
Light Control - select according to your desired operation mode. Light control is not a function.
Video Control - press to take video; one more press stops recording.

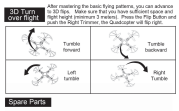
SURROUNDINGS BEFORE FLIGHT

1. INDOOR FLIGHT: please play in spacious room without any obstacle,animal or people nearby.
2. OUTDOOR FLIGHT: please play in warm, sunny and windless weather.

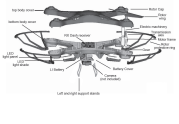
NOTE:
A. Do not play at extreme temperature: too hot or too cold weather will affect flight performance or damage the product.
B. Do not play under strong wind; it will affect flight control; the Quadcopter might get damaged or even disappear.

3D Turn over flight

After mastering the basic flying patterns, you can advance to 3D flips. Make sure that you have sufficient space and flight height (minimum 3 meters). Press the Flip Button and push the Right Trimmer, the Quadcopter will flip right.

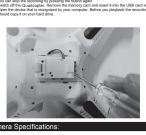


Spare Parts



CAMERA

Video and photo recording
1. Insert the micro SD card (max.32GB) into the micro SD slot. Make sure that it is properly engaged.
2. Press the camera button (photo or video) on the controller to start recording. In video mode, one more press stops recording. In photo mode, one more press takes a photo.
3. Switch off the Quadcopter. Remove the memory card and insert it into the USB card reader. Open the device that is recognized by your computer. Before you playback the recording, you should copy it on your hard drive.



Camera Specifications:

JOY
1. Can shoot/record like take photo and video.
b. Format of photo image: 1280 x 960, JPG
Video data will be stored in the TF card (SD card - 2GB supplied).
Card memory maximum 32GB
Card reader is included in the quadcopter provided.
c. Camera: with PPC self-setting, 3290 pixel chip & internal illumination
Lux size: 5 x 0.9MM, visual digital: 70°±5°
JOY
2. 200W pixel photo image: 1280 x 720 ; JPG / 30 FPS chip 1/4 inch HD color CMOS
Lens 4p 68°, image area: 5984(W) x 2168(H)
Video data: 1280 x 720 (AVI) (Support playing on TV)
Temperature: + 0 ~ 50 C RH85% max , storage temperature: -40°C ~ 80°C RH85% max.

The power supply and the input of transmitter signal

a.Power on: turn on the power supply, the green light is on. When the red lights flash all 6 times, it will turn off, which means that it can't found the TF card(SD card) or the card is full.
b.Standby: the green light is on.
c.Photo: the camera is idle, in low-level use start video function and the red light will flash, while it is in low-level again, it will close the video function and store the data, then the red light is on.
d.Photo: the control line of photo in low-level use start photo function, the red light flash, it takes three photos and in storage, then back to stand by.
e.Input voltage : 3.7V~4.5V ; Standby mA: <10mA ; Working mA: <200~250mA

Troubleshooting

Error	Reason	Solution
The model does not react to control commands	Controller batteries are not inserted correctly	Check the battery
	Batteries are empty	Replace the batteries
	Model battery is empty	Charge the battery
The model makes strange sounds	Master Gears are damaged	Check these and replace them if needed
The controller has no connection to the model	Weak battery	Charge the battery
	Controller batteries are empty	Replace the batteries
	Battery damaged	Replace the battery
	The model is out of range	
The model shows a weak performance	The motor is worn out	Check all motors and replace it if needed

SPECIAL NOTE:

1. The remote control distance may be affected if the Controller or Quadcopter has weak battery power.
2. The Quadcopter will be difficult to fly high in case of weak battery power.
3. If the Quadcopter is damaged or deformed, please fix it immediately. If any of the components are missing, do not use the product.
4. Please remove batteries from the Controller before extended storage.
5. Be careful not crashing or colliding the Quadcopter during flight to avoid damages.

WARNING:
FCC ID: QIPJP-9YN-2915-Q207

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.
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.
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.
We, Synergistic Industrial Ltd, hereby declares that this R/C Quadcopter is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.