



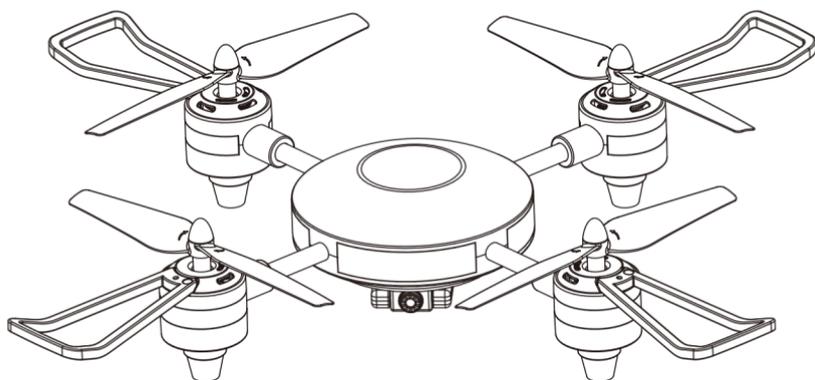
RAYCON

14+

# U - LILY

## INSTRUCTION MANUAL

### RD100



- Interlligentized R/C system.   ▪ Smooth hang performance.
- Newly designed electricity saving function. Safeguard battery model to prolong the uses life.
- Using four-motor drive, smooth flight, can easily finish all kinds of maneuvers.
- By using 6 axis gyro and attitude control integrated design, which can ensure the fine positioning in the air.

Please read the instruction manual carefully before go for flight.  
Please keep this manual for future use.

# Main technical contents:

U-LILY Size: L: 28.5cm × W: 28.5cm × H:6.7cm(with protection cover)

U-LILY weight: 150 gram

Flying distance: 50-80 meters

Charging time: About 120 minutes

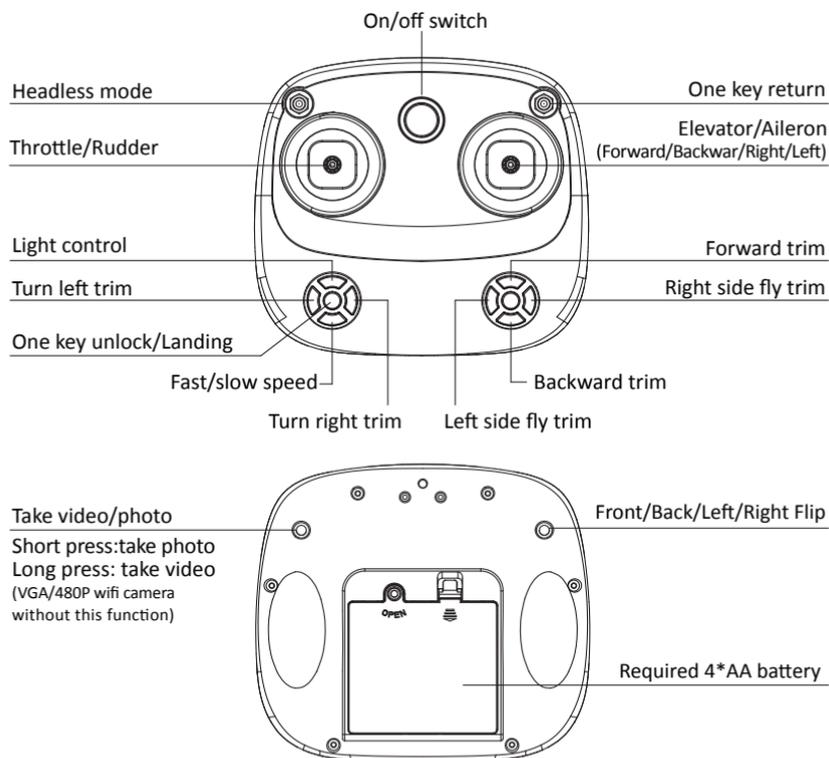
Flying time: 9-11 minutes

## Battery:

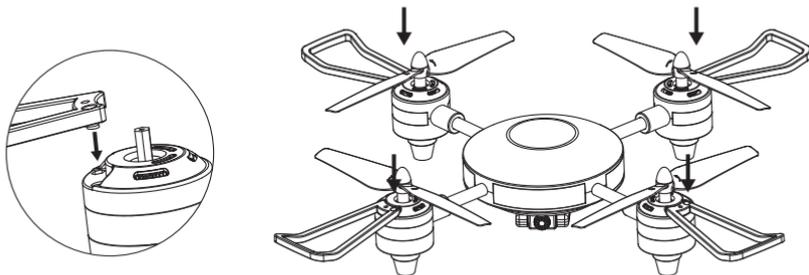
Quadcopter Battery(Built-in): 3.7V/1000 mAh Li-po battery inside

Transmitter Battery: 4\*AA battery (Not including)

## 2.4G transmitter instruction:

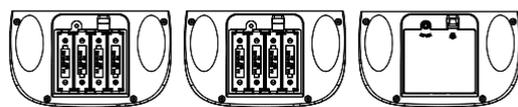


## Protection cover installation instructions:



Base on figure to install protection cover, and use screw to fix it.

## Remote control installation instructions:



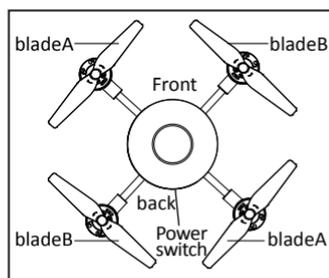
(figure 1)

(figure 2)

(figure 3)

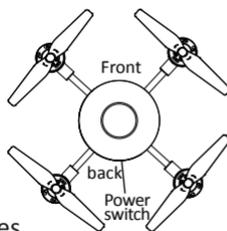
1. Use screwdriver to open the battery cover (figure 1)
2. Base on the instruction in the battery slot to put battery (figure 2)
3. Tighten the screws in battery cover (figure 3)

## Blade installation location:

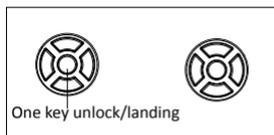
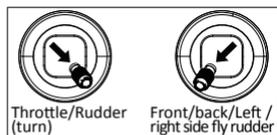


## Frequency connect/Unlock:

1. "Front" "Back" as the right figure, Place quadcopter on level ground, put quadcopter's head in front. Back aim at transmitter.
2. Turn on the bottom power switch, quadcopter's light flash.
3. Open the transmitter switch, push the throttle stick, then pull down the throttle stick, the transmitter's indicator light will be stable, the quadcopter's light also stable, it means frequency connect successfully.



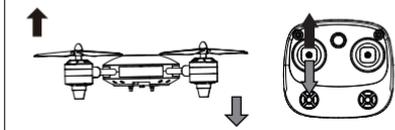
4. Following figures shows three ways unlock. Four paddles will be rotate slowly when quadcopter unlock, it means unlock successfully.



Noted: After unlock, if do not do any operation, about 10 seconds, motor will be stop automatically. If need to quick stop after start, just re-do unlock operation.

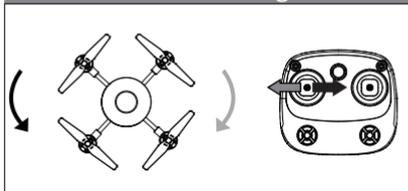
# Flying operation introduction:

## Hover up and down



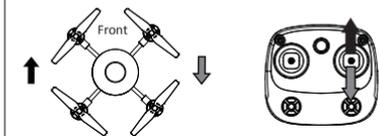
Push the throttle up or down, the quadcopter flies upward or downward.

## Turn left and right



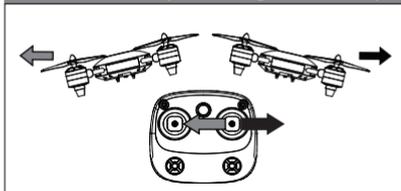
Pull the throttle left or right, the quadcopter nose turns to left or right.

## Forward and backward



Push the elevator/aileron up or down, the quadcopter flies forward or backward.

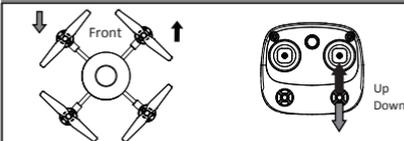
## Left side fly and right side fly



Pull the elevator/aileron left or right, the quadcopter flies to left side or right side.

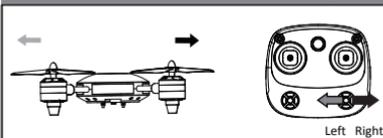
# Fine-tuning operation:

## Forward/Backward fine-tuning



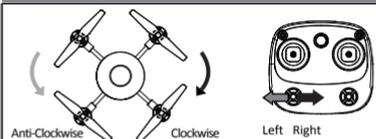
When the quadcopter keeps flying forward/backward, you can correct it by pressing fine-tuning button down/up.

## Sideward fly fine-tuning



When the quadcopter keeps flying sideward, you can correct it by pressing fine-tuning button left/right.

## Turn left/right fine-tuning



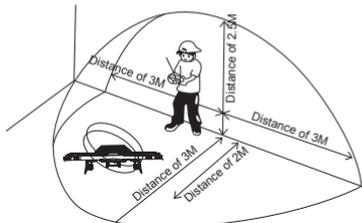
When the quadcopter keeps rolling/head move left/right, fix it by pressing fine-tuning button left to right/right to left.

## Environment for flight:

Please have good practice before go to flight.

### NOTICE

When we move the acceleration handle upward, then downward to the bottom. If the red indicator keeps to flash, it shows the battery has no enough power. You should replace with new batteries.

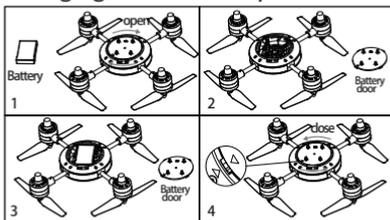


## Battery charging using instruction:

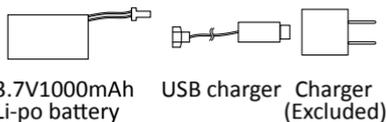
- Battery installation:
  1. Clockwise rotate to open battery door.
  2. Battery's plug insert to quadcopter's plug.
  3. Put battery into battery socket, then make well line and plug.
  4. Battery door "△" mark aim to the bottom of the drone "△" mark (figure1), counterclockwise to cover battery door.
- Battery charging: remove the battery from drone, battery plug aim to USB adpoter to charge (Figure2). Remark: it will has LED red light on adpoter when charge, after 120 minutes it will be off when charge completely. (Noted: For safe, pls charge within sight.)
- During the normal flight, if drone light flash rapidly, it means need to replace the battery/re-charge the battery.

### Warning on Li-poly battery:

- When charging, please put the drone on a dry area and keep it far away from heat source or explosive devices.
- After flying, please do not charge the battery if the surface temperature is still not cool. Otherwise it may cause a swollen battery or even a fire hazard.
- Please make sure that you use the original adpoter provided with the drone and When the battery has been used for a long time, or appears to be swollen, please replace them.
- If not in use for a long time will lose its charge automatically charging or discharging too often may reduce its life.



(Figure1)



(Figure2)

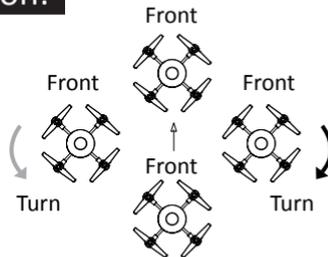
## Headless mode operation instruction:

### 1. Headless mode function instruction:

The functioning of headless mode is pretty simple. Only pre-requisite is that before taking off, you're required to position the drone in such a way that its front is your front. Since yaw (the left stick) anyway doesn't have anything to do with orientation (left is left and right is right all the time, regardless of where your drone is pointing at), it is how the drone reacts to rudder (the right stick) that changes. In other words, even when you turn your drone 90 degrees to the left.

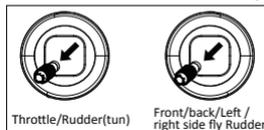
### 2. How to set headless mode:

Base on "Reset operation introduction" third steps to reset headless mode firstly. Push down the headless mode button before/after quadcopter fly to open headless mode.

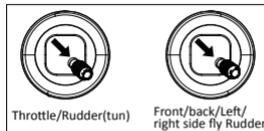


## Reset operation introduction:

1. Transmitter reset: When transmitter cannot control quadcopter normally, pls turn off transmitter, then re-turn on transmitter, transmitter will reset automatically.
2. Quadcopter reset: When quadcopter cannot fly normally, also the transmitter already reset, at this time, you can try to reset the quadcopter. Reset way: Place the quadcopter on the level ground, turn on, after frequency connect, pull down transmitter rudder to left, keep 2-3 seconds, wait quadcopter light turn flash to stable(Figure 1).
3. Headless mode adjust: If need to turn on headless mode during play before quadcopter fly up, must adjust headless mode first(Must adjust headless mode for every time flight). Adjust way: Place quadcopter on the level ground, head in front, back aim to controller before turn on quadcopter, frequency connect, then pull down transmitter rudder to right, keep 2-3 seconds, wait quadcopter light turn flash to stable(Figure 2).

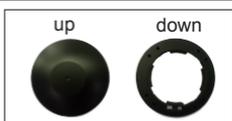


(Figure 1)



(Figure 2)

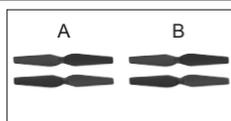
## Main spare parts:



Part-01  
Motor Cover up and down



Part-02  
Protection Guard



Part-03  
Blade A/B



Part-04  
3.7V/1000 mAh Li-po battery



Part-05  
Battery Cover



Part-06  
Transmitter



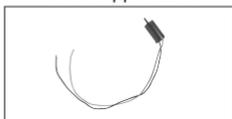
Part-07  
Motor upper cover



Part-08  
Motor down cover



Part-09  
RCB



Part-10  
Main Motor (Red/Blue Wire)



Part-11  
Main Motor (Black/White Wire)



Part-12  
Blade Cover



Part-13  
Cellphone Holder

# WIFI Image Transmission Operated Instruction

## WIFI Camera Assembly Instructions:

In Figure 1, wifi camera subassembly are fitted with four pillars' A point show as Figure 2, use screw to tighten it, then plug aim to B point show as Figure 3, plug and play.



Figure 1

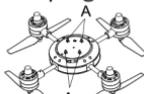


Figure 2

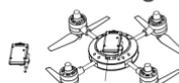


Figure 3

## WIFI Smartphone Holder Assembly Instructions:

In Figure 1, the A and B of the smartphone are fitted with Figure 2 C and D, and shown in Figure 3. PB2.3x5 screws are locked into the corresponding screw hole E in Figure 3. Pull up the holder, as shown in Figure 4.



Figure 1

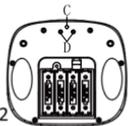


Figure 2

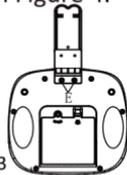


Figure 3

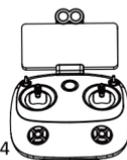


Figure 4

## Smartphone APP Download Instructions:

- IOS Apple Download Method (Support Devices iPhone and iPad):
  - Method 1: Turn on the phone, find the software in the APP store. Search for "CamFPV" search, download the App.
  - Method 2: Connect a mobile phone USB data cable to the computer, search "CamFPV" in ituries/itoos software on computer(Download ituries/itoos software on computer firstly), download and install .
  - Method 3: Turn on smart phone, scan the QR code in the manual (See below). <https://itunes.apple.com/us/app/cam-fpv/id1184799215?l=zh&ls=1&mt=8>



APPLE VERSION WIFI APP

- Android System App Download Method
  - Method 1: Turn on the phone, find the App in the App store. Search for "CamFPV", download the App.
  - Method 2: Connect a mobile phone USB data cable to the computer. Search for "CamFPV" in the software store, download and install .
  - Method 3: Turn on smart phone, scan the QR code in the manual. (See below) [https://play.google.com/store/apps/details?id=com.guanzhi.tech.cam\\_fpv2](https://play.google.com/store/apps/details?id=com.guanzhi.tech.cam_fpv2)



ANDROID VERSION WIFI APP

Noted: If gravity sensor function unnormal when use android phone, pls enter phone "setting" → open "rights management" → find corresponding APP and enter → open all setting rights.

**1. Smartphone WIFI Connection:** Turn on the quadcopter and place on a flat surface. The LED light on the camera will stable red. After about 3 seconds, the light will flash indicating it is transmitting a Wifi signal. Enter the menu in the smart phone, open the Wifi setting and search for "WIFIUFO-\*\*\*\*\*" signal. Connect to "WIFIUFO-\*\*\*\*\*" signal. When connect successfully, the red LED light light stable. Exit the phone set.

**2. Operate Smart Phone App:**

Open the downloaded App "CamFPV" by pressing on the this icon . The APP will open to main page (Figure 1).



(Figure 1)

**3. Smartphone APP Interface Function:**

**Control interface (Figure 2)**

- 1 Icon: Return key, Click return back.
- 2 Icon: Take photo, press after take photo, automatically save to phone and in icon 4 document.
- 3 Icon: Smartphone take video, press after take video, automatically save to phone and in icon 4 document.
- 4 Icon: Smartphone File, save photo and video.
- 5 Icon: Speed adjustment. (fast/slow)
- 6 Icon: Headless mode.
- 7 Icon: Path line function mode. (FYI Figure 3)



(Figure 2)

Remark: If need stop in path line function, please press the square area will auto stop.

- 8 Icon: Rollover image. (180 degree)
- 9 Icon: VR mode: 2D/3D Image transfer, only real-time transmission has this function.
- 10 Icon: Setting: flight parameter and interface parameters.
- 11 Icon: Gravity sensor mode. (After click icon 7, exit this icon then it work)
- 12 Icon: Display/hidden interface.
- 13 Icon: Emergency stop.
- 14 Icon: Start-up.
- 15 Icon: Landing.
- 16 Icon: Throttle/ steering joystick.
- 17 Icon: Front back/Left right side fly joystick.
- 18 Icon: Front back trim.
- 19 Icon: Chinese/English language switch.
- 20 Icon: Turn right/left trim.
- 21 Icon: Balance: adjust the gyroscope.
- 22 Icon: Left/right side fly trim.
- 23 Icon: In gravity sensor area, enter APP, long press this icon then can have gravity sensor function.



(Figure 3)

