Ages 14+

SereneLife
by PYLE

UdiR/C ®

DISCOVERY **C**

Equipped with 120° wide-angle 720P HD Camera

SLRD40
Operations Guide

Charging Instruction for Drone Battery

1. Connect the drone battery with USB cable first and then choose one of the method as below picture shown to connect with USB plug.

2. The red USB indicator light keeps bright when charging and the light turns green when fully charged.

* For faster charging, it is recommended to use an adapter with 5V 2A output current (not included) to charge the battery.
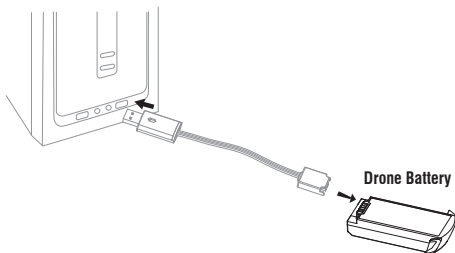
Phone Charger   Power Bank

Computer Charging Car Charger

Drone Battery

Li-Po Battery Disposal & Recycling

Wasted Lithium-Polymer batteries must not be placed with household trash. Please contact local environmental or waste agency or the supplier of your model or your nearest Li-Po battery recycling center.
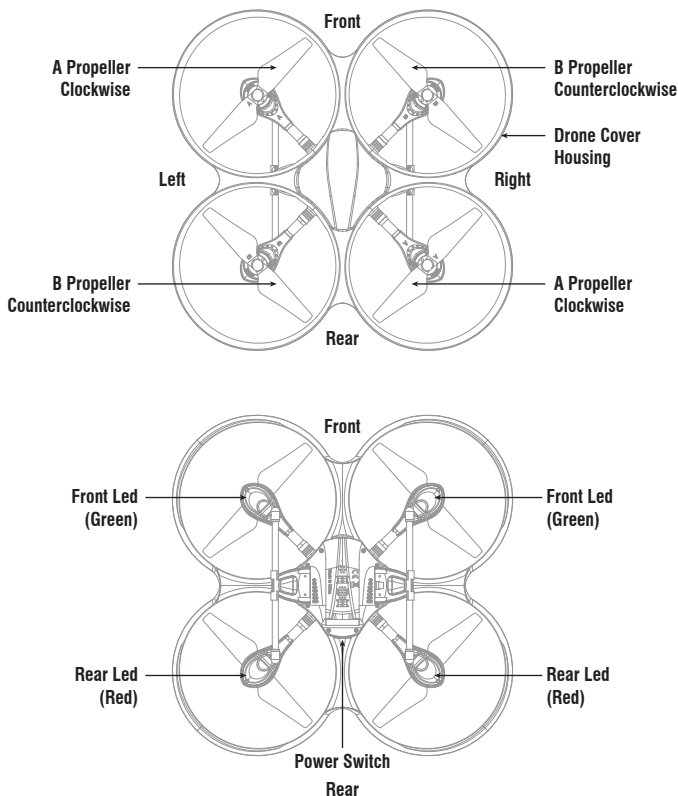

Check List Before Flight

1. Make sure the drone battery and transmitter battery are fully charged.
2. Make sure the Left Stick of the transmitter in the middle position.
3. Please strictly obey the order of turn on and turn off before operation. Turn on the transmitter power first and then turn on the drone power before flying; turn off the drone power first and then turn off the transmitter power when finish flying. Improper turn on and turn off order may cause the drone out of control and threaten people's safety. Please cultivate a correct habit of turn on and turn off.
4. Make sure the connection is solid between battery and motor etc. The ongoing vibration may cause bad connection of power terminal and make the drone out of control.
5. Improper operation may cause drone crash, which may arouse motor or propeller defective and noise, and then effect the flying status or even stop flying. Please go to the local distributor to buy new parts for replacement so that the drone will return to its best status.
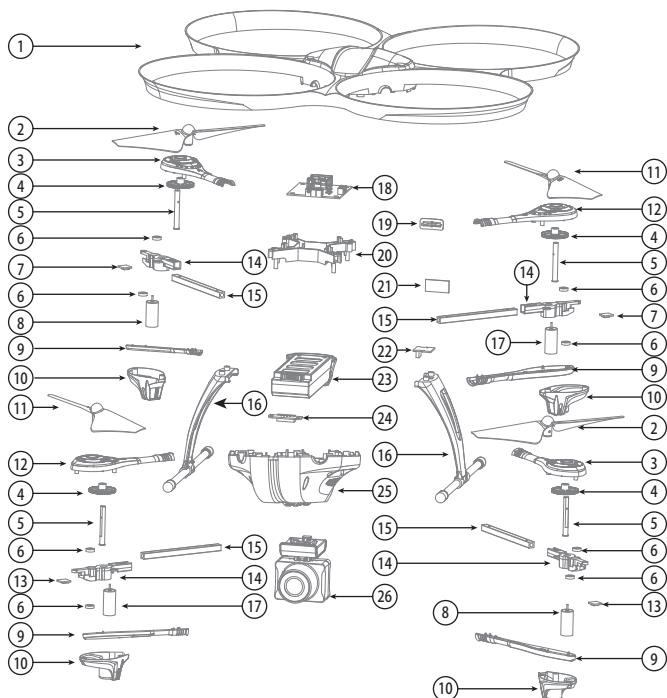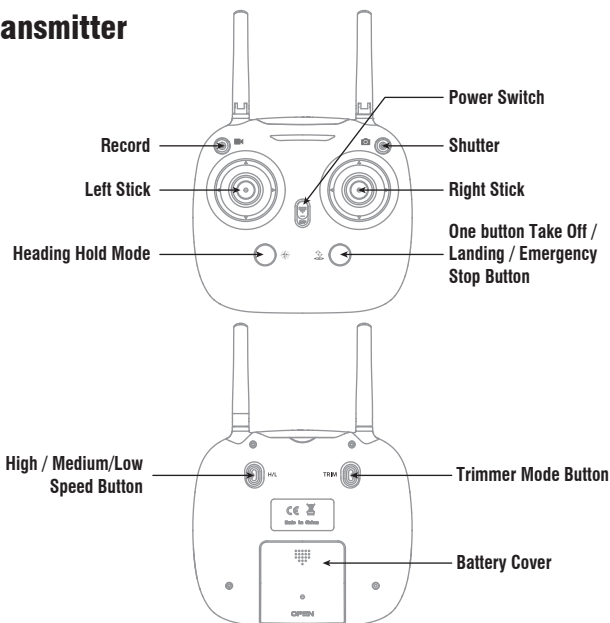
Instruction for Drone and Transmitter

Drone

Front

A Propeller
Clockwise

B Propeller
Counterclockwise

Drone Cover
Housing

Left

Right

B Propeller
Counterclockwise

A Propeller
Clockwise

Rear

Front

Front Led
(Green)

Front Led
(Green)

Rear Led
(Red)

Rear Led
(Red)

Power Switch

Rear

Specification

Drone Size	335x335x127mm	Charging Time for Drone Battery	180mins
Drone Weight	248g	Max Flying Distance/RadiusA	150m
Propeller Diameter	147mm	Max Image Transmission Distance/Radius	50m
Flying Time	13~15mins		
Drone Battery	3.7Vx2 1000mAh	Camera Resolution	1280x720P
Main Motor	1020x4	Remote ControlTechnology	2.4Ghz

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Exploded View

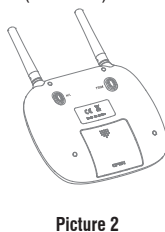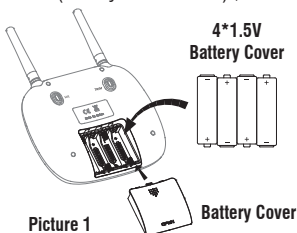| No.	Name	No.	Name	No.	Name
1	Drone Cover Housing	10	LED Cover	19	Switch
2	A Propeller	11	B Propeller	20	Receiver Board Holder
3	Upper Motor Cover A	12	Upper Motor Cover B	21	Power Switch Board
4.	Transmission Gear	13	Front Led Board(Green)	22	Camera Adapter Board
5	AL Main Shaft	14	Motor Holder	23	Battery Box
6	Bearing	15	C-Pb Square Tube	24	Battery Adapter Board
7	Rear LED Board(Red)	16	Landing Gear	25	Lower Drone Cover
8	A Propeller Motor (Black and White wire, White connector)	17	B Propeller Motor (Red and Blue wire, Red connector)	26	Camera Box
9	Lower Motor Cover	18	Receiver Board		

Transmitter

Power Switch

Record

Shutter

Left Stick

Right Stick

Heading Hold Mode

One button Take Off / Landing / Emergency Stop Button

High / Medium/Low Speed Button

Trimmer Mode Button

Battery Cover

Brief Introduction for Button Functions

Left Stick	Move the Stick to forward / backward / left / right to fly the drone to up / down / turn left / turn right.
Right Stick	Move the Stick to forward / backward / left / right to fly the drone to forward / backward / left / right.
Power Switch	Push up the power switch to turn on the transmitter, and pull down to turn off.
Record	Press down the button, start to record video.
Shutter	Press down the button, start to photograph.
Heading Hold Mode	Press the button to enter heading hold mode, and press again to exit from heading hold mode.
Take Off / Landing / Emergency Stop Button	Press the button and the drone will fly up automatically. Press the button again and the drone will land on the ground automatically. Press and hold the button more than 1s, the drone propellers will stop and fall down immediately.
High / Medium/Low Speed button	Press down this button to switch to High /Medium/ Low Speed.
Trimmer Mode Button	Turn left / Turn right Trimmer: Press and hold this button, move the left stick to the required trimmer direction, then it will adjust the direction accordingly, when loose the button, then exit from the trimmer mode. Forward / Backward / Left / Right Trimmer: Press and hold this button, move the right stick to the required trimmer direction, then it will adjust the direction accordingly, when loose the button, then exit from the trimmer mode.

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Battery installation:

Open the battery cover on the back side of the transmitter and put 4 alkaline batteries (AA, not included) into the box in accordance with electrode instructions as Picture 1(battery not included) ,close the battery cover(Picture 2).
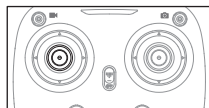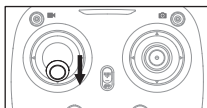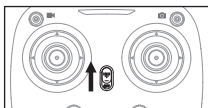
4*1.5V
Battery Cover

Picture 1   **Battery Cover**   **Picture 2**

Notice:
1. Make sure the electrodes are correct.   **3. Do not mix different type of batteries.**
2. Do not mix new with old batteries.   **4. Do not charge the non rechargeable battery.**
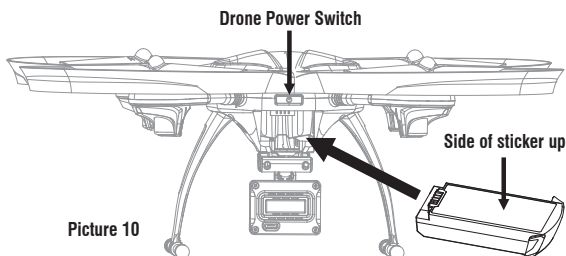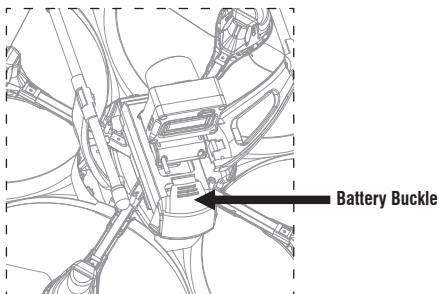
Pre-flight Operation Instruction
Frequency Pairing

1. Turn on the transmitter switch (Picture 7) and the power indicator light flashes rapidly. Push the Left Stick all the way down to the lowest position and then release. (Picture 8/9). The power indicator light flashes slowly, which indicates the transmitter is ready for frequency pairing.

Picture 7   **Picture 8**   **Picture 9**

2. Install the Li-po battery into the drone in accordance with the direction of arrow (Picture 10) , you need to squeeze down the battery buckle, push the battery until it is secured in its position (Picture 11).
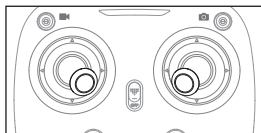
Drone Power Switch

Side of sticker up

Picture 10

Battery Buckle

Picture 11

3. Long press the power switch of the drone for 2s(Picture 10),put the drone on the flat surface, the drone body lights turn from flashing to solid bright, which indicates frequency pairing is successful.

Important Notice: Please make sure the drone is placed on the horizontal position after powering on the drone, so that the drone can work well.

Checklist before Flight

1. The camera is in front of the drone. Keep the drone front away from you.

2. Power on the drone and check the direction of the rotating propellers. The left front and right rear A propellers rotating clockwise while the right front and left rear B propellers rotating counterclockwise.

3. Activate(unlock) motors: Move the Left Stick and Right Stick at the same time as Picture 12 shown(45 degree inward) to start the motors and repeat previous step again to lock the motors.
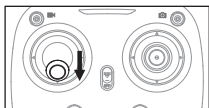

Picture 12

4. After activate the motors, push up the Left Stick slowly to fly up the drone, and pull down the Left Stick slowly to the lowest end, then the drone will land on the ground slowly.

5. It's recommended to repeat above Step 4 to practice.

6. Adjust relative transmitter Trimmer button to adjust the rudder if the drone tilts to one side when flying.
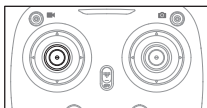
Calibration Instruction

Please follow below steps to calibrate the drone if the drone becomes imbalance after crashing during the flight, and can not be adjusted by trimmer button and cause difficult operation.

1. Power off the drone, then turn off the transmitter switch.

2. Turn on the transmitter switch, push the Left Stick all the way down to the lowest position (Picture 13) and then release. The Left Stick will back to the middle position automatically (Picture 14). The transmitter is ready for frequency pairing mode.
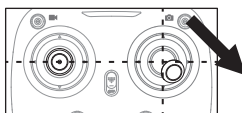

Picture 13   **Picture 14**

3. Power on the drone and put it on a flat surface in a horizontal position. The drone body lights change from flashing to solid bright, which indicates successful frequency pairing.

4. Do not move the Left Stick before successful calibration. Push the Right Stick as Picture 15 shown and then release. The drone body lights flash, which indicates that the drone is calibrating. When the drone body lights become solid, which indicates successful calibration.
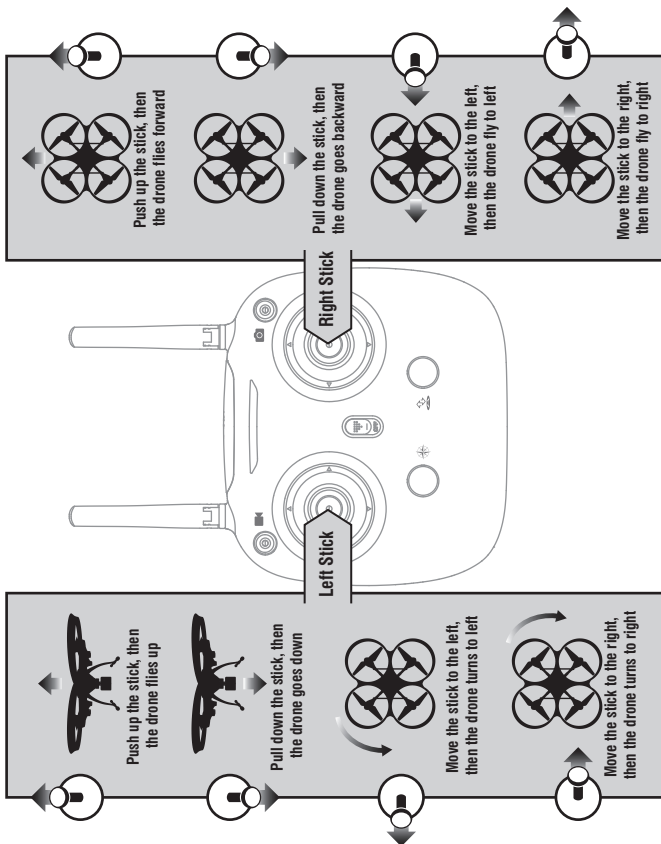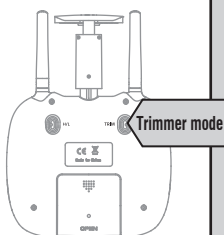

Picture 15

Notice: When the drone is fiercely impacted or crashed, it may cause the gyro can not recover and cause difficult control, if so, then you need to power off and power on again to calibrate.

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Flying Control

Notice: Every time before the drone take off, move the Left Stick and Right Stick at the same time as Picture 12 shown(45 degree inward) to start the motors. Push up the Left Stick slowly to fly up the drone or press down the one button to take off.

Right Stick

Push up the stick, then the drone flies forward

Pull down the stick, then the drone goes backward

Move the stick to the left, then the drone fly to left

Move the stick to the right, then the drone fly to right

Left Stick

Push up the stick, then the drone flies up

Pull down the stick, then the drone goes down

Move the stick to the left, then the drone turns to left

Move the stick to the right, then the drone turns to right

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Forward and backward trimmer
When take off, if the drone tilts forward, press down the trimmer button, and push the right stick backwards. Otherwise push forwards.

Left and right side flying trimmer
When take off, if the drone tilts to left, then press and hold the trimmer button and push the right stick to right. Otherwise push to left.

Left and right turning trimmer
When take off, if the drone head rotates to left,then press down the trimmer button and push the left stick to right. Otherwise push to left.

Trimmer mode

Functions Introduction
Take off/ One button take off/Landing modes

1. Take off: After frequency pairing successful, push the Left Stick and Right Stick as Picture 12 shown (45 degree inward) to start the motors and then release. Then push up the Left Stick to fly up the drone to certain altitude and then release the stick.

Picture 16

2. One Button Take Off: After frequency pairing successful or motors activated, press the Take Off / Landing / Emergency Stop Button (Picture 13), the drone will fly up automatically and keep flying at the altitude of 1.2 meters approximately.

3. Landing: When flying, push the Left Stick all the way down to the lowest position (Picture 16) and hold it till the motors stop and the drone will land on the ground slowly.

Take Off / Landing / Emergency Stop Button

4. One Button Landing: When flying, press the Take Off / Landing / Emergency Stop Button once shortly (picture 16), and the drone will land on the ground automatically. (When using this function, you can not touch the left stick, otherwise, then the function will fail)

▲**Emergency Stop: When the drone in emergency situation and going to hit the walking people or obstacle etc., press the Take Off / Landing / Emergency Stop Button immediately and hold it for more than 1s(picture 16). The propellers will stop immediately and land on the ground directly.**
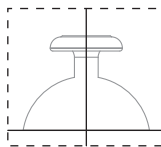
Altitude Hold Mode

Altitude hold mode indicates that the drone maintains a consistent altitude while allowing roll, pitch, and yaw to be controlled normally. It makes it easier to control the drone for beginner and more stable for aerial photography.

Push the Left Stick up (down) to fly the drone up (down) at certain altitude and then release the Stick. The Stick will back to the center position (Altitude Hold Center) as Picture17 shown. And the drone will keep flying at current altitude. Repeat above steps if you want to change the drone altitude.(It is the default setting)
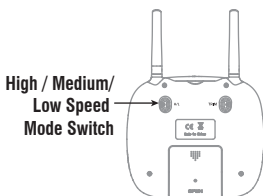
Altitude Hold Center

Picture 17

Notice: When the propeller distorts or the motor damages, the altitude hold function is invalid.

High / Medium/Low Speed Mode Switch

Press down this button, then it will sound " di", it means low speed mode "L"; when it sounds " di.di", means medium speed "M"; and sounds " di.di.di" means high speed mode "H".(The default setting is medium speed mode)

High / Medium/ Low Speed Mode Switch

Low Speed Mode "L"
1. Low Speed Mode is suitable for beginner.
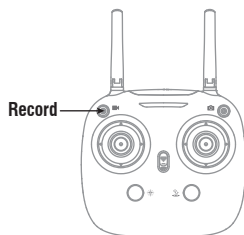
Medium speed Mode "M"
2. Medium Speed Mode is suitable for skillful pilots to play in the gentle breeze.

High Speed Mode "H"
3. High Speed Mode is suitable for expert to experience aerial stunt in outdoor.

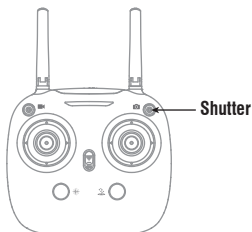# Recording Mode

Press down the button, start record video. Press down the button again, finish record video.

Record

Shutter Mode

Press down the button, start to photograph. Press down the button again, finish to photograph.
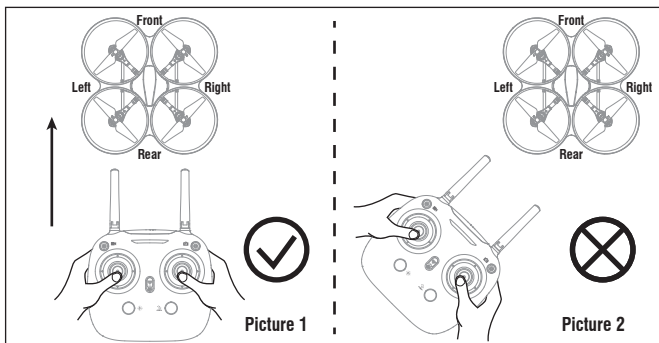
Shutter

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Heading Hold Mode

Drones generally have a front and rear indicated by LED lights or colored propellers. By default, the users are required to tell the front and the rear of the drone when flying. Under heading hold mode, the users can operate the drone without worrying about the orientation (left is left and right is right all the time, regardless of where your drone is pointing at).Heading Hold Mode is designed for beginners and the users who fly the drone in daylight or at a far distance or difficult to identify the drone orientation.
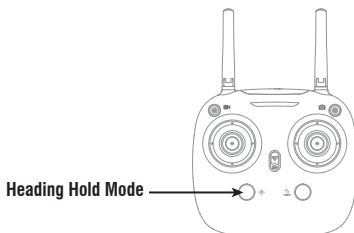
The default setting is NOT Heading hold Mode.

You are allowed to activate the heading hold mode function before taking off or in flight. Fly under heading hold mode, you're required to ensure the drone front direction aligned with your front direction, DO NOT change your direction of your transmitter and keep it fly in front of you all the time.(See below picture)

Warning: Do not use heading hold mode before you are sure that the drone's front is your front. Otherwise, it might be out of control or fly away.

* Press down Heading hold mode button, the drone's left and right LED will start flashing alternately, it shows the drone enters Heading hold mode, press the button again, then the LED gets solid and the drone ESC from heading hold mode.

Heading Hold Mode

Low Battery Alarm

When the transmitter in low battery, the transmitter will beep "di-di" to remind the user to land the drone to replace the battery as soon as possible. Or the drone may be out of control.

When the drone in low battery, the transmitter will beep" di.di..." constantly to remind the user to land the drone as soon as possible. The flip function will turn off automatically when the drone in low battery.
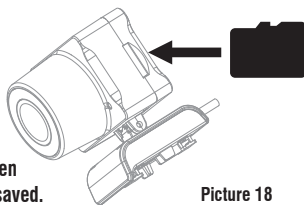
Out of Range Alarm

When the drone is going to fly out of the max remote control distance, the transmitter will beep "didi...didi...didi..." to alarm the user to fly back the drone immediately. Or the drone may be out of control and fly away.

Motors Stuck Protection

1. When the propellers get stuck, then the drone LED will flash quickly and activate stuck protection function and the motors stop running.

2. Pull down the left stick to the lowest position, the drone LED will get a solid light and stuck protection will be released and the drone can fly again.

To take photo and record video

1. Insert the TF card to the slot in accordance with Picture 18.

2. When take photo and record video, photos and video files will be saved in the TF card.

Tip: Click on the video icon to save a video when ending recording, or the video cannot be saved.

Picture 18

3. Power off the drone first when finish aerial photography. Take out TF card and insert the card to a card reader. Connect the card reader with computer USB port. After a while, view the aerial photography data from "my computer"-"mobile disk".
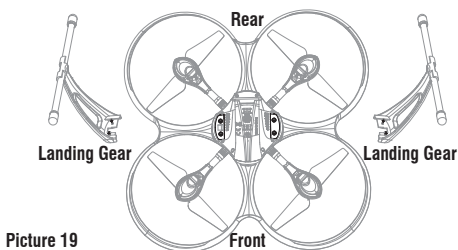
Tip: Please play the video or photo after copying all aerial photography data to computer and make sure the play software can support AVI format.

Basic parameter for aerial camera: Video DPI 1280*720P
Image Size 1280*720P

Spare Parts Assemble and Disassemble

Landing Gear Installation Diagram

Install the landing gear into bottom housing, as picture 19 shown, then use the screwdriver to fix attached 4 screws in clockwise direction.

Picture 19

Camera Box Installation Diagram

Insert the camera box into bottom housing buckle (Picture 20), push it until it is secured in its position (Picture 21).

Picture 20   **The direction to install the camera box**   **Picture 21**

Camera Wire Connection Instruction

1. Connect Micro cable to camera box (Picture 22).

Picture 22

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2. Then the another end of this Micro cable connect to drone bottom housing (Picture 23).

Picture 23

Propeller Installation Diagram

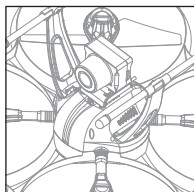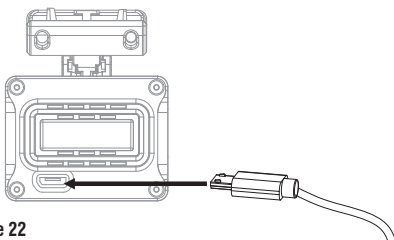1. Use the screwdriver to remove the screw in counterclockwise direction, pull up the damaged propeller and take it out (picture 24).
2. Replace with the same new rotating direction propeller, aim at the screw hole to install it(Picture 25), then tighten the screw in clockwise.

Picture 24

Picture 25

Motor Installation Diagram

1. Rotate the screw driver in counter clockwise to loose the screw, and take out 3pcs of screws in the lampshade, disconnect the wire and then take out the defective motor(Picture 26).
2. Replace with the same new motor, connect the motor wire(Picture 27), put on the lampshade, then tighten 3pcs of screw in clockwise(Picture 28).

Picture 26

Picture 27

Picture 28

Battery installation diagram

When install, you need to squeeze up and down of the battery buckle(Picture 29) and then put the Lipo battery aim at the drone battery slot.

Picture 29

Receiver Board Bonding Wire

Battery adapter positive electrode pad: Red Wire

Battery adapter negative electrode pad: Black Wire

Right front motor negative electrode pad: Blue Wire

Right front motor positive electrode pad: Red Wire

Right front LED board positive electrode pad: Green Wire

Right front LED board negative electrode pad: Black Wire

Right rear LED board negative electrode pad: Black Wire
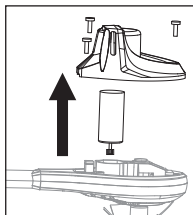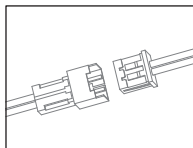
Right rear LED board positive electrode pad: Yellow Wire

Right rear motor positive electrode pad: Red Wire

Right rear motor negative electrode pad: Blue Wire

Front

Rear

5P wire plug camera adapter board

Left front motor negative electrode pad: Blue Wire

Left front motor positive electrode pad: Red Wire

Left front LED board positive electrode pad: Green Wire

Left front LED board negative electrode pad: Black Wire

Left rear LED board negative electrode pad: Black Wire

Left rear LED board positive electrode pad: Yellow Wire

Left rear motor positive electrode pad: Red Wire

Left rear motor negative electrode pad: Blue Wire

3P wire plug power switch board

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Spare Parts

For convenience, the spare parts are listed for you to choose, which can be purchased from the local seller.

SLRD40-01
Drone Cover Housing

SLRD40-02
Drone Bottom Housing

SLRD40-03
A Propeller

SLRD40-04
B Propeller

SLRD40-05
Landing Gear

SLRD40-06
Motor Cover Holder A

SLRD40-07
Motor Cover Holder B

SLRD40-08
Motor Bottom Holder

SLRD40-09
Receiver Board Bracket

SLRD40-10
LED Cover

SLRD40-11
Camera

SLRD40-12
Aluminum Main Shaft

SLRD40-13
B Motor
(Red and Blue Wire,
Red Connector)

SLRD40-14
A Motor
(Black and White Wire,
White Connector)

SLRD40-15
Receiver Board
(Include Battery
Adapter Board)

SLRD40-16
Power Switch Board

SLRD40-17 **Camera Adapter** **Board**	**SLRD40-18** **Front LED Board** **(Green)**	**SLRD40-19** **Rear LED Board** **(Red)**	**SLRD40-20** **Micro Terminator**
SLRD40-21 **Drone Battery**	**SLRD40-22** **USB Cable**	**SLRD40-23** **Gear**	**SLRD40-24** **TF Card**
SLRD40-25 **Card Reader**	**SLRD4026** **Transmitter**		

Important Statement

Our company's products are improving all the time, design and specifications are subject to change without notice.

All the information in this manual has been carefully checked to ensure accuracy, if any printing errors, our company reserve the final interpretation right.

Troubleshooting Guide

No.	Problem	Problem Cause	Solution
1	The transmitter indicator light is off	1. Low battery.	1. Replace the transmitter battery.
		2. The battery positive pole and negative pole are in reverse order.	2. Install the battery in accordance with the user manual.
		3. Poor Contact.	3. Clean the dirt between the battery and the battery slice.
2	Fail to pair the drone with transmitter	1. Indicator light is off.	1. The same as above 1.2.3.
		2. There is interfering signal nearby.	2. Restart the drone and power on the transmitter.
		3. Mis-operation.	3. Operate the drone step by step in accordance with the user manual.
		4. The electronic component is damaged for frequent crash.	4. To buy spare parts from local seller and replace damaged parts.
3	The drone is under-powered or can not fly.	1. The propeller deformed seriously.	1. Replace the propeller.
		2. Low battery.	2. Recharge the drone battery.
		3. Incorrect installation of propeller.	3. Install the propeller in accordance with the user manual.
4	The drone could not hover and tilts to one side	1. Poor Calibration.	1. Refer to the instruction of calibration.
		2. The propeller deformed seriously.	2. Replace propeller.
		3. The aluminum main shaft deformed.	3. Replace the aluminum main shaft.
		4. The gyro did not reset after violent crash.	4. Put the drone on the flat ground for about 10s or restart the drone to calibrate again.
		5. The motor is damaged.	5. Replace motor.
5	The drone indicator light is off	1. Low battery.	1. Recharge the drone battery.
		2. The battery is expired or over discharge protection.	2. Buy a new battery from local seller to replace the battery or charge the battery in accordance with the use manual.
		3. Poor contact.	3. Refer to the user manual, push the battery box into position is fine, turn on the power If the wire of power board is poor contact, please go to local seller to repair.
6	Could not see the picture	1. There is interfering signal nearby.	1. Cut off the wire and re-connect.
		2. Damaged camera.	2. Buy a new camera box from local seller to replace.

VISIT US ONLINE:
Have a question?
Need service or repair?
Want to leave a comment?
PyleUSA.com/ContactUs

PYLE

FCC 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 a ntenna.
● 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.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Notice

The equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. Modifications not authorized by the manufacturer may void user's authority to operate this device.

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.
(2) This device must accept any interference received, including interference that may cause undesired operation.

$C\epsilon$ PLEASE RECYCLE

MADE IN CHINA

www.udirc.com

Catalog

Important Statement

Thank you for buying UDIRC's product .The drone is different from other ordinary toy. People who are under 14 years old must not use the product. To better use this product and ensure your safety and other people's security, please read this brochure carefully before using it. You are regarded as accepting all content in this user manual when using this drone.

This product is a piece of complicated equipment which is integrated with professional knowledge by mechanic, electronic, air mechanics, high-frequency emission etc. User should fly legally in safe range of outdoors or indoors. The users promise to be responsible for their behavior when using this product. The users promise to use the drone for legal purpose, and agree to obey above rules and local laws and regulations.

We undertake no liability for those accidents caused by environment, illegal behavior, improper operation, refitting of the drone and personal reason after sale of the product.

We have entrusted the distributor to provide technology support and after-sale service. If you have any questions about use, operation, repair etc., please contact the local distributor.

* Please only use UDIRC's attached spare parts or purchase the original version of UDIRC's spare parts to replace the damaged parts. Or we undertake no liability for those accidents caused by replacement.

* Keep the packing and user manual so as to refer to the important information whenever.

Safety Precautions

This drone is suitable for experienced RC drone user aged 14 years or above. This product contains small parts, please put it out of child's reach.

(1) Flying Area

The flying field must be legally approved by your local government. Do not fly the drone near in the airport. Keep far away from the airport more than 5km when flying a RC drone. Flying field must spacious enough and we suggest at least 8M (length)*8M (width)*5M (height).

(2) Use correctly

Improper assembly, broken main frame, defective electronic equipment or unskilled operation all may cause unpredictable accidents such as drone damage or human injury. For beginner, we suggest learning the operation skill from experienced RC drone user in the first flight. Please pay special attention to safety operation and have good knowledge of accident responsibility that the user may cause.

(3) Keep away from obstacles and crowd

The speed and status of a flying RC drone is uncertain and it may cause potential danger. So the user must keep away from crowd, tall building, power lines etc. when operating a flying RC drone. Do not fly a RC drone in rainy, storm, thunder and lighting weather for the safety of user, around people and their property.

(4) Keep away from humid environment
The drone inside is consisted of precise electronic components and mechanic components. Humidity or water vapor may damage electronic components and cause accident.

(5) Safe operation
Please operate the RC drone in accordance with your physical status and flying skill. Fatigue, listlessness and improper operation may increase the rate of accident.

(6) Keep away from high-speed rotating parts
Please keep the drone in your sight when flying. Keep rotating parts away from people and ground. Otherwise, may cause serious injury and damage.

(7) Keep away from heat
The RC drone and transmitter are made of metal, fiber, plastic, electronic components etc. Keep away from heat and sunshine to avoid distortion and damage.

(8) Operation Area
The drone should be controlled within max control distance. Do not fly the drone near tall building, high voltage cable or other place with signal interference. Otherwise, it may affect the flight distance and streaming video range ,even may cause signal interruption and the drone will be out of control, which may result in accident.

(9) Do not touch the hot motor to avoid being burnt.

(10) Please use the recommended charger only. Power off the drone before cleaning the RC drone. Check the USB cable, charging plug etc. regularly to ensure they can work well. If there is any damage, stop using it immediately till it's fixed well.

Safe Notice for Drone Battery

* Keep the battery away from child and animal.
* Discontinue charging when you notice the battery is swollen.
* Do not charge the battery once it crash or damage.
* After the crash, check the battery to ensure it can work well.
* Do not overcharge the battery.
* Do not charge the battery near the flammable materials or liquids.
* Do not put the battery on high temperature place, store it in a proper container to avoid damage or explode.
* Do not put the battery in the pocket or bag to avoid short circuit and not be scratched by sharp or metallic objects.
* Do not disassemble, refit and repair the battery.
* Do not use the battery to crash or hit hard surface.
* Do not put the battery in water and keep it in dry place.
* Do not leave the battery without supervision when charging.
* Make sure that there is no short circuit of the power wire.
* Please use the recommended charger only.
* Check the charger's wire, plug, surface regularly. Do not use any broken charger.
* If the battery is not used more than one week, maintain the drone battery with about 50% power to keep its performance and working life.