

# ROGUE

F72 FPV DRONE

## USER MANUAL



Altitude Hold



Headless Mode



Photo



Video



Flight Path Mode



3 Speed



FPV Mode



One Key Lift/Land



360° Inversion

**ATTENTION:  
PLEASE WATCH THIS  
FLIGHT INSTRUCTION  
VIDEO BEFORE  
FLYING YOUR DRONE.**



<https://youtu.be/tk3qzsUwoWs>

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## WELCOME!

Welcome to the Force 1 Team, and thank you for your Force1 drone purchase. Please read this manual carefully before drone operation.

- (1) This drone is not a toy! It's a pro-level drone suitable for experienced RC drone users aged 14 years and older. You accept all liability for operation.
- (2) The flying field must be legally approved by your local government.

**\*Please keep the packaging and this user manual for future reference.**

## SAFETY PRECAUTIONS

This drone is suitable for experienced RC drone operators aged 14 years and older. It contains small parts, and should be kept out of reach of small children.

Please follow these safety procedures:

### **(1) Avoid Moisture**

Humidity and water can damage your drone, which in turn may cause accidents.

### **(2) Fly Safely**

Please operate your drone as your skill level allows. User fatigue, impairment and improper operation can cause accidents.

### **(3) Avoid Moving Parts & Hot Motors**

Do not touch propellers, motors or other moving parts while your drone is on.

### **(4) Avoid Heat**

Keep your drone away from heat and prolonged exposure to direct sunlight to avoid damage.



## LI-PO BATTERY CARE

### **Avoid Overheating**

Your batteries will sometimes be warm/hot to the touch after use. This is normal, but beware that battery components will fail if not allowed to cool down between uses. Also, do not leave batteries exposed to direct sunlight.

### **Store Properly**

Store batteries at room temperature, between 5C°/40°F and 27°C/80°F.

### **Use Carefully**

- Leave time between charging and using the battery
- To extend the lifetime of the battery, always keep about 20% of the power remaining in the drone battery (rather than completely draining it)
- If the battery is pushed beyond its limits, the battery could get hot and the performance will drop
- When using the battery for a long time, the battery will increase in temperature. If it is sealed, the air inside will inflate rapidly causing further heating

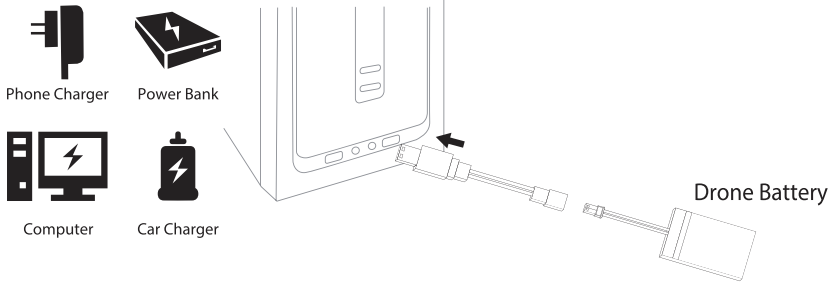
### **Charging**

- DO NOT overcharge the battery; never charge batteries unattended, and stop charging as soon as your batteries indicate they are charged
- DO NOT attempt to charge batteries that appear damaged in any way (cracking, swelling, discoloration, etc.)
- If you feel a battery isn't charging properly, try using another charger if possible.
- To inspect a battery, remove it from the device and examine the battery, battery pins and contacts.
- Check your battery and connections after every crash
- Please use genuine factory parts and replacements

**WARNING:**  
**DO NOT LEAVE BATTERY**  
**CHARGING UNSUPERVISED**

## DRONE BATTERY CHARGING

1. First, attach your USB cable to the drone battery, then connect it to your preferred charging source.
2. When the battery is charging, a red indicator light on the USB appears. When the battery is fully charged, a green indicator light appears. The battery charging time is around 70-85 minutes.



### NOTE

Use a 5V 2A AC adapter (not included) for faster charging.



## LI-PO BATTERY DISPOSAL & RECYCLING

Do not put lithium-polymer batteries in household trash. Please contact your local waste management agency or LI-PO battery recycling center for more info.



## BOX CONTENTS



DRONE WITH CAMERA



TRANSMITTER



7.4v 350mAh  
LITHIUM BATTERY (2)



PROPELLERS (4)



SD CARD READER



PHONE CLIP



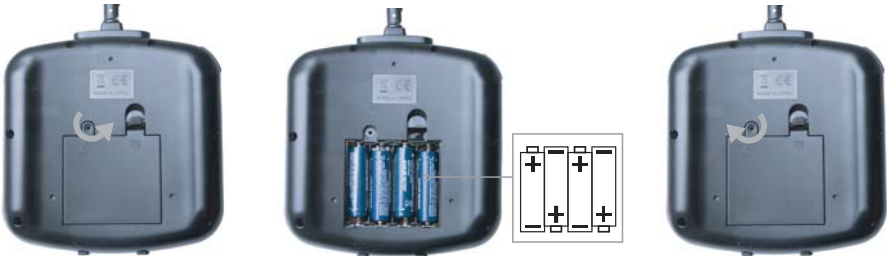
DRONE TOOLS



USB CHARGER

## TRANSMITTER BATTERY INSTALLATION

Open the battery cover and insert 4 AA batteries as shown below (not included).



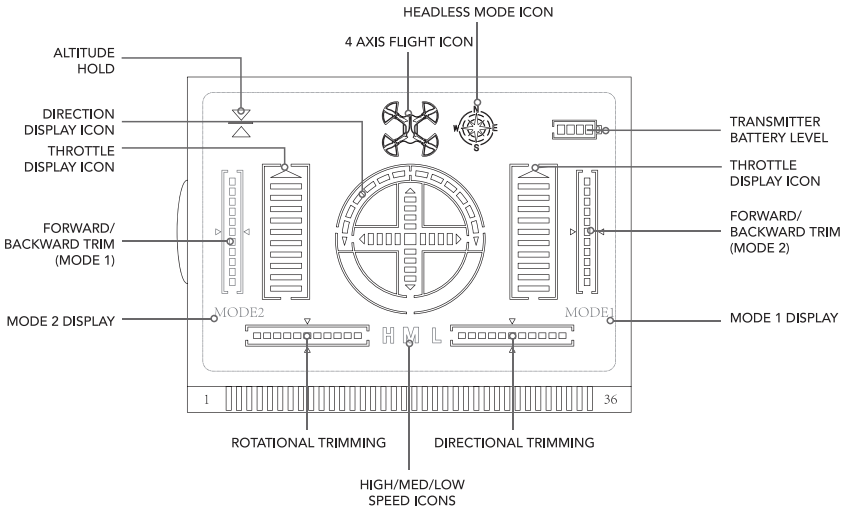
### CAUTION:

- The transmitter needs 4 AA batteries to work
- Insert batteries in correct polarity (+) and (-)
- Don't mix old and new batteries
- Don't mix alkaline, standard (carbon-zinc) and rechargeable (nickel-cadmium) batteries
- Remove rechargeable batteries before charging
- Only charge batteries under adult supervision
- Remove spent batteries from the transmitter
- Regularly inspect the charging cable, cord, plug, enclose and other parts;

# DRONE OVERVIEW



# LCD SCREEN



# PHONE CLIP ATTACHMENT & USE

1. Insert the clip vertically, down into the transmitter in front of the antennae (Fig. 1). There will be a click when the clip is firmly in place.
2. Put the phone into the clip and then release the clamp; the clamp should hold your phone tightly.
3. Use the right silver knob to modify the angle of the phone clip (Fig. 2).



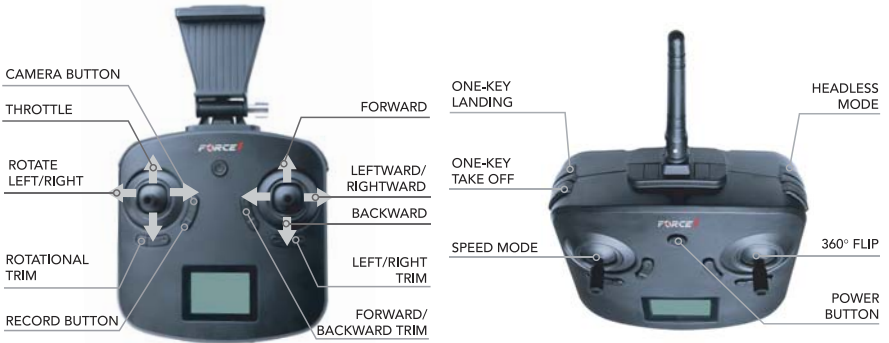
FIGURE 1



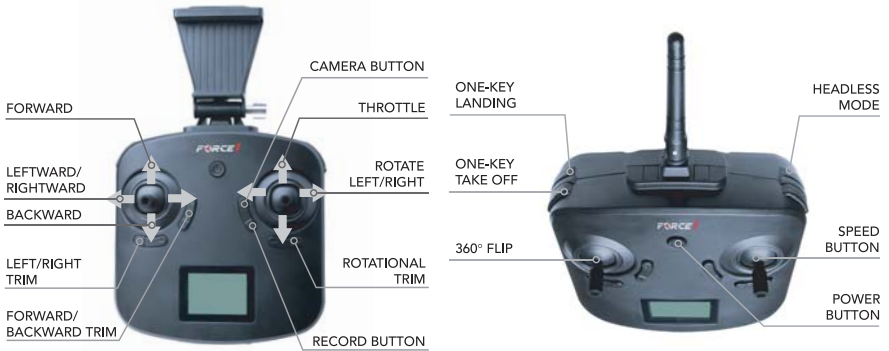
FIGURE 2

# THROTTLE MODES

## Mode 2 (Default)



## Mode 1



## DRONE ASSEMBLY

### BATTERY INSTALLATION

1. Open the battery cover using a screwdriver and insert the battery into the power port (Fig. 3).
2. Connect the wire of the 7.4v 350mAh Lithium battery to the receiver wire in the power port (Fig. 4).
3. Replace the battery cover, and move the power switch to the "ON" position.



FIGURE 3

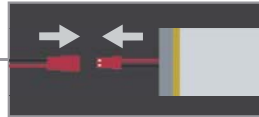


FIGURE 4

### CAUTION:

Install the battery firmly; failure to do so may affect flight safety.

### BATTERY REMOVAL

Make sure the drone power switch is in the "OFF" position. Open the battery cover using a screwdriver and disconnect the wire of the battery from the receiver wire.

### PROPELLER GUARD INSTALLATION

Attach the propeller guard as shown in figure 5. Make sure that all three prongs are snapped into place. Install a screw to the center prong to secure the guard completely.



FIGURE 5

## DRONE ASSEMBLY

### PROPELLER INSTALLATION/REMOVAL

- To remove propeller, use a screwdriver to remove the propeller screw (Fig. 6)
- The replacement propeller should have the same rotational direction; reinsert the screw and tighten (Fig. 7)



FIGURE 6



FIGURE 7

#### NOTE

- Be sure to install the correct propellers matching A and B (Fig. 8)
- Be careful with the propellers, as they can be sharp

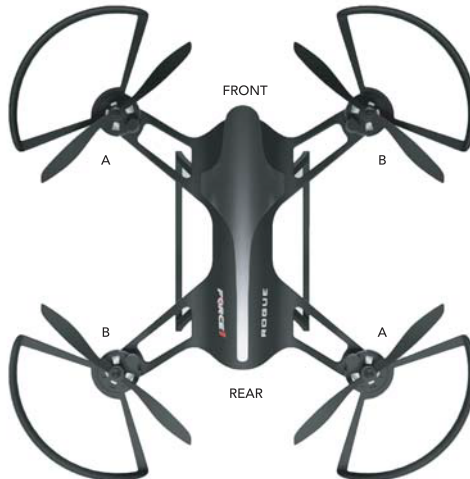


FIGURE 8



## PREFLIGHT OPERATIONS

### THROTTLE MODE SELECTION & PAIRING

#### NOTE

Be sure to select throttle mode and pair your drone while standing within 5 meters of it to avoid interference.

#### Mode 2: Left-Hand Throttle (Default)

Insert batteries and push the power button. Move the accelerator (left stick by default) up, and then down (Fig. 9). The LCD transmitter indicator should come on, and show as Mode 2. This means that frequency connection AND pairing are complete, and the drone can fly normally in Mode 2.



FIGURE 9

#### Mode 1: Right-Hand Throttle

Push the fine-tuning button and the power button simultaneously. The LCD transmitter indicator will flash slowly. Move the accelerator (right stick) up, and then down. The indicator will flash and indicate Mode 1. This means that frequency connection AND pairing are complete, and the drone can fly normally in Mode 1.



FIGURE 10

## PREFLIGHT OPERATIONS

### CALIBRATION

Move both sticks down and to the left (Fig. 11) and drone fuselage lights will flash, and then stay on. This means calibration is finished and the drone is ready to fly.



FIGURE 11

### LOCK/UNLOCK YOUR DRONE

#### UNLOCK

Place the drone on a flat surface. Move the left and right sticks down and inward simultaneously (Fig. 12). Drone propellers will rotate, indicating it is unlocked and ready to fly.

#### LOCK

Move the left and right sticks down and outward simultaneously (Fig. 13). Propellers will stop rotating, and the drone is now locked.



FIGURE 12



FIGURE 13

#### NOTE

After the drone is unlocked, it can operate normally. Otherwise, it can't be operated.

## PREFLIGHT CHECKLIST

1. Fly in an open area and abide by all local and federal guidelines.
2. Make sure your drone and transmitter batteries are fully charged.
3. Put the left stick of the transmitter in the middle position.
4. Follow the Mode Selection and Calibration instructions closely. Always turn ON your transmitter first before flying, and turn OFF the drone first when you're finished.
5. Make sure the connection is solid between your battery and motor; vibration may cause loosening.
6. Make sure the propellers are installed correctly and the motors are working normally after unlocking.

## BASIC FLIGHT CONTROLS

### HOVER UP AND DOWN

Push the THROTTLE/RUDDER STICK up to fly the drone up, and pull the THROTTLE/RUDDER STICK down to fly the drone down.



### FLY FORWARD OR BACKWARD

Push the DIRECTION CONTROL STICK up to fly the drone forward, and pull the DIRECTION CONTROL STICK down to fly the drone backward.



### FLY LEFT OR RIGHT

Move the DIRECTION CONTROL STICK to the left to fly the drone to the left, and move the DIRECTION CONTROL STICK to the right to fly the drone to the right.



### ROTATE LEFT OR RIGHT

Move the THROTTLE/RUDDER STICK to the left to rotate the drone to the left, and move the THROTTLE/RUDDER STICK to the right to rotate the drone to the right.



## TRIM ADJUSTMENTS

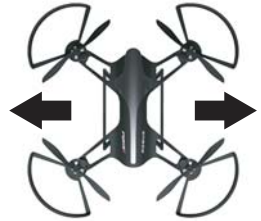
### FORWARD/BACKWARD TRIM

Adjust the FORWARD/BACKWARD TRIMMER backwards if the drone drifts forward when taking off, and adjust the FORWARD/BACKWARD TRIMMER forwards if drone drifts backwards. In Mode 1, the FORWARD/BACKWARD TRIMMER is on the left side.



### LEFT/RIGHT TRIM

Adjust the LEFT/RIGHT FLYING TRIMMER to the right if the drone drifts to the left when taking off, and adjust the LEFT/RIGHT FLYING TRIMMER to the left if drone drifts to the right.



### LEFT OR RIGHT ROTATION TRIM

Adjust the LEFT/RIGHT RUDDER TRIMMER to the right if the drone rotates to the left when taking off, and adjust the LEFT/RIGHT RUDDER TRIMMER to the left if drone rotates to the right.



## FUNCTIONS

### ONE-KEY TAKEOFF

Place the drone on a flat surface. Move the left and right sticks down and inward simultaneously to unlock – propellers should start rotating. Press the top-left corner button (Fig. 14) – the drone should lift off and hover at about 1.5 meters.



FIGURE 14

### ONE-KEY LANDING

Press the top-left corner button (back) while the drone is aloft to land it (Fig. 15).



FIGURE 15

### HEADLESS MODE

Press the top-right corner button (back) to enter Headless Mode before takeoff (Fig. 16). Your transmitter will beep every two seconds, the drone lights will flash 3 times to indicate mode selection and the LCD Headless Mode indicator will appear. You can now fly your drone without knowing its orientation, because it will be fixed in the direction you set it. Press button again to exit mode.



FIGURE 16

### Setting Headless Mode Drone Direction

You must verify your drone's flight direction before entering Headless Mode:

- Be sure your drone is facing away from you (Fig. 17)
- Move the left and right sticks down and to the left for about 2 seconds (Fig. 18)
- Drone lights will flash quickly for and then stay on, indicating direction is verified

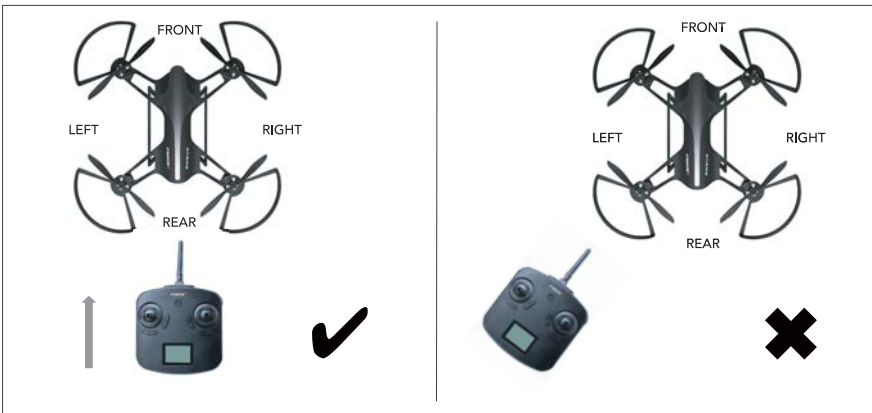


FIGURE 17

## FUNCTIONS

### HEADLESS MODE (CONT.)

#### NOTE

You may calibrate your drone while in Headless Mode to ensure normal flight control if you notice any variation.

TIP: Do not change the transmitter orientation after entering Headless Mode. Otherwise, you will lose track of the set orientation (i.e., that you and your transmitter are facing “forward.”)



FIGURE 18

### MEMORY CARD INSTALLATION

Insert an SD card (not included) into the SD slot on the underside of the drone, at the back of the camera casing (Fig. 19). To remove, press in slightly to release.

SD CARD SLOT



FIGURE 19

### CAMERA ANGLE ADJUSTMENT

You can adjust the angle of this drone's camera between 0° and 35° (Fig. 20).



FIGURE 20

## FUNCTIONS

### EMERGENCY STOP

Press the one-key takeoff (top-left corner) and the top right corner buttons (Fig. 21) simultaneously to initiate an emergency stop – this will cut power and stop the propellers immediately.

**NOTE**

This will cause the drone to fall from the sky; use only in case of emergency.



FIGURE 21

### LOW BATTERY WARNING

Your drone's lights will flash and the transmitter will beep in midflight when the battery is low. This means you have 30 seconds to land your drone before you lose power.

### LOW/MEDIUM/HIGH SPEED MODES

The Rogue has three speed modes: low (30%), medium (default 60%) and high (100%). To switch speeds, press straight down on the accelerator stick as if it were a button. See Figure 22 for Mode 1 and Mode 2 operation.



FIGURE 22

## FUNCTIONS

### ROLLING MODE

#### Mode 2 (Default)

To roll the drone, press straight down on the right stick as if it were a button. The transmitter will begin to beep. Next, move the right stick all the way in any direction, then let it return to center. Your drone should roll 360° in the chosen direction. Rolling Mode will cease automatically.



#### Mode 1

To roll the drone, press straight down on the left stick as if it were a button. The transmitter will begin to beep. Next, move the left stick all the way in any direction, then let it return to center. Your drone should roll 360° in the chosen direction. Rolling Mode will cease automatically.



### CAUTION:

Only execute rolls when you have plenty of airspace.



# GETTING TO KNOW YOUR APP

## 1. DOWNLOAD AND INSTALL THE FORCE1 F72 APP

Use the Force1 F72 app to enjoy first-person view (FPV) control and photo/video capture via your mobile device while flying your F72 Rogue drone. The app is compatible with iOS and Android phones. To download the app from the App Store or Google Play:

1. Scan the QR code on the product box or below, OR
2. For iOS phones: Search for the Force1 F72 app in the App Store;
3. For Android phones: Search for the Force1 F72 app in Google Play.



Force1-F72



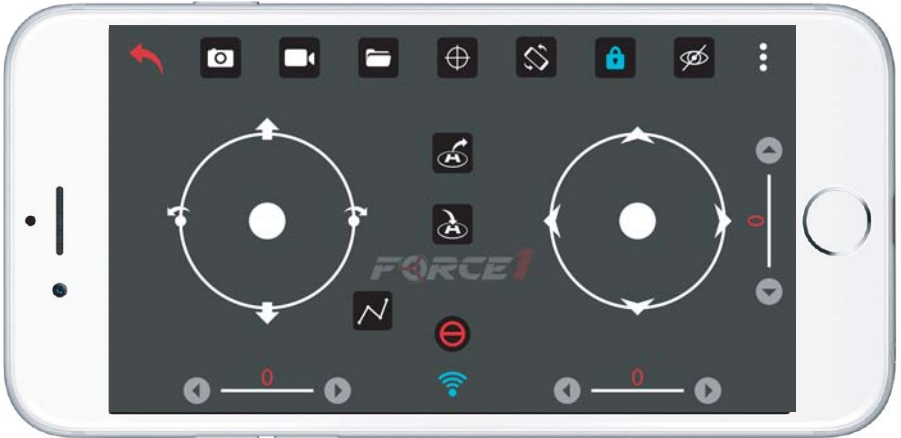
## 2. HOW TO PAIR YOUR MOBILE DEVICE & DRONE WI-FI

1. Install the battery and power on the drone. Put the drone on a flat surface in a horizontal position.
2. Make sure your mobile device Wi-Fi settings are on and connect to the Wi-Fi name Force1\_\*\*\*\*.
3. Open the Force1-F72 app and click on "START" to fly in FPV and capture photos/video via your mobile device.



### 3. APP ICONS

#### 1. APP TRANSMITTER INTERFACE



Return Icon: Click to return to the home page.



One-Key Takeoff: Click and the icon turns red; the drone flies up automatically and hovers.



One-Key Landing: Click and the icon turns red; the drone descends slowly and lands, and propellers stop.



Lock: Click to unlock the drone; click again to lock.



Photo: Click to take photo.



Video: Click to record video; click again to stop. Recording time appears at the bottom of your screen.



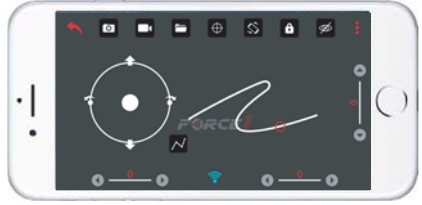
Emergency Stop: Click and the propellers stop immediately – your drone will fall from the sky.

**Do not use the emergency stop function unless in emergency situation.**

### 3. APP ICONS



**Custom Route Mode:** Click on the icon to pull up a touch-sensitive track interface. Trace a route on the right with your finger and watch your drone fly the route. Use the proportion tool below the throttle controls to adjust the relationship between route line length and flying distance – the higher the proportion, the longer the distance. Click again to exit Custom Route Mode.



**NOTE:**

This feature must be used in an open area to avoid the risk of collision.



**Calibration Mode:** Click to calibrate the drone (on a flat surface) after a crash when it can't be adjusted by the trimmer. Calibration ensures all sensors are accurate; LED lights will stop flashing when calibration is complete.



**Rotate Screen:** Click to rotate the interface from horizontal to vertical.



**Hide:** Click to hide the throttle and directional control icons; click again to see them.



### 3. APP ICONS



**Extended Menu:** Click to view additional app functions.



**Speed Mode:** Default speed is set at Medium (60%). Click to set to Low (30%) or High (100%).



**Camera Flip:** Click to change drone camera orientation.



**Virtual Reality Mode:** Click to engage VR Mode, which when paired with VR glasses will enable live 3D viewing.



**Gyroscope Mode:** Click to fly your drone by tilting your phone (left, right, forward and backward only; the throttle remains in place). Click again to exit.



**Signal Icon:** This icon shows the transmitter's signal strength.

#### NOTE

No Wi-Fi signal? No problem. Turn off your Wi-Fi then turn it on again to establish a connection. Your drone must be controlled within the 40m Wi-Fi control radius.

#### NOTE

Exit the app when switching between the transmitter and your mobile device.

## 4. APP FLYING CONTROL

### STARTING THE DRONE

Click the Unlock icon to prep the drone for flight. The icon will turn blue and certain icons will appear.

Click the One-Key Takeoff icon to start the drone; the drone will ascend and hover a few feet off the ground.



### FLY UP AND DOWN

Move the left control lever up to fly the drone up and move the left control lever down to fly the drone back down. The drone will stay flying at appointed altitude.



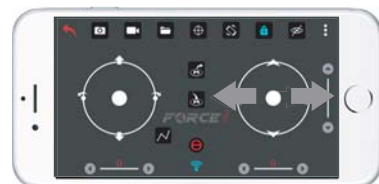
### ROTATE LEFT OR RIGHT

Move the left control lever to the left to rotate the drone to the left. Move the left control lever to the right to rotate the drone to the right.



### FLY LEFT OR RIGHT

Move the right control lever to the left to fly the drone to the left, and move the right control lever to the right to fly the drone to the right.



## 4. APP FLYING CONTROL

### FLY FORWARD OR BACKWARD

Move the right control lever up to fly the drone forward, and move the right control lever down to fly the drone backwards.



## 5. APP TRIMMING ADJUSTMENTS

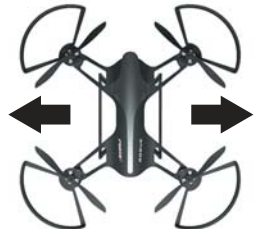
### FORWARD/BACKWARD TRIM

Click the "-" of the Forward / Backward Trimmer to adjust the drone until balance of the drone tilts forward. Click the "+" to adjust the drone until balance of the drone tilts backward.



### LEFT/RIGHT TRIM

Click the "+" of the Left / Right Trimmer until balance of the drone tilts to the left. Click the "-" to adjust the drone until balance of the drone tilts to the right.



### LEFT OR RIGHT ROTATION TRIM

Click the "+" of the Left / Right Rudder Trimmer until balance of the drone rotates left. Click the "-" to adjust the drone until balance of the drone rotates right.



## 6. AERIAL PHOTOGRAPHY & VIDEO



Library: Click to view photos/videos.

Photos/video are stored on the memory card if installed. If not, they are saved to the app.

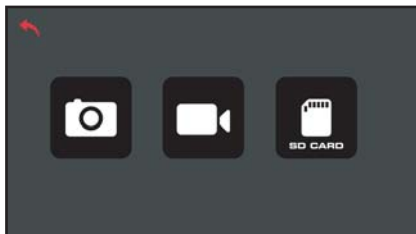


FIG. 23

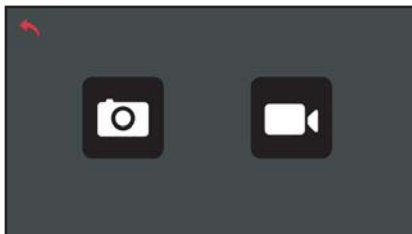


FIG. 24

Tap the photo folder on the left to view all captured images, or edit a photo. Tap the video folder on the right to view all captured video or edit the video (Fig. 23). When a memory card is inserted, click on the memory card icon to view photos and videos (Fig. 24).

### CAUTION:

- Competing Wi-Fi signals, magnetic fields and other electronic signals can interfere with the mobile app; avoid operation where interference is high to ensure optimum flight conditions
- Try a different mobile device or browser if the mobile app fails to download
- As a safety measure, your drone will slowly descend when the app is interrupted by an incoming call
- The Force1 F72 app only works with the F72 Rogue drone; interface may change with software updates/upgrades

## CARE AND MAINTENANCE





















1. Regularly clean the drone using a cloth.
2. Do not expose the drone to direct sunlight or high temperatures.
3. Do not expose the drone to water as this will damage the electrical components.
4. Regularly inspect the charging plug and other parts for damage. If there are any signs of damage, discontinue use immediately until the part has been fully repaired.

## TROUBLESHOOTING





| NO. | PROBLEM  | SOLUTION   |
|-----|--|--|
| 1   | Drone lights are flashing, but drone is not responding.        | 1) The transmitter and drone are not paired. Refer to pg. 12 to pair again.<br>2) Drone has low battery. Charge the battery. |
| 2   | Drone propellers rotate, but it can't fly.                     | 1) Drone has low battery. Charge the battery.<br>2) The fan is deformed or was installed wrong. Replace the fan.             |
| 3   | Drone delivers an electric shock.                              | 1) The fan is deformed. Replace the fan.<br>2) The axle is bent. Replace the axle.   |
| 4   | Trimming has been performed, but the aircraft won't stabilize. | 1) The fan is deformed. Replace the fan.<br>2) The motor is damaged. Replace the motor.                                      |
| 4   | After a drone crash, the drone flies erratically.              | 1) The gyroscope is out of balance. Refer to pg. 13 to recalibrate the fuselage.   |



## SPARE PARTS

|  |   |   |   |
|--|---|---|---|
|   |    |    |    |
| Upper Cover<br>001   | Lower Cover<br>002  | Propellers (A/B)<br>003   | Front/Rear Light Covers<br>004  |
|    |    |    |    |
| Propeller Guards<br>005  | Landing Gear<br>006   | Lens Accessories<br>007   | Motor Cabinet<br>008  |
|    |    |    |    |
| Clockwise Motor<br>009   | Counterclockwise Motor<br>010   | Dash Receiver<br>011  | Wifi Camera Plate<br>012  |
|   |   |   |   |
| White LED Indicator<br>013   | Blue LED Indicator<br>014   | Hollow Steel Tube<br>015  | Bearing<br>016  |
|  |  |  |  |
| Fuselage Batteries<br>017  | Motor Cone<br>018   | Transmission Gear<br>019  | Switch with Plug<br>020   |

**SPARE PARTS**

|   |   |   |   |
|---|---|---|---|
|  |  |  |  |
| Steel Pipe/Gear Assembly<br>021   | Fixed Plate<br>022  | 3.7v*2 Charger<br>023   | Transmitter<br>024  |

# FCC INFORMATION

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 residential 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. If this device causes radio or TV interference, which can be determined by turning the device off and on, try to correct the interference using the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on the circuit different from that to which the receiver is connected
- Consult the dealer or an experienced technician for help

# FCC WARNING

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. The device does not cause harmful interference, and
2. The device accepts interference, including interference that may cause undesired operation.



[force1rc.com](http://force1rc.com)