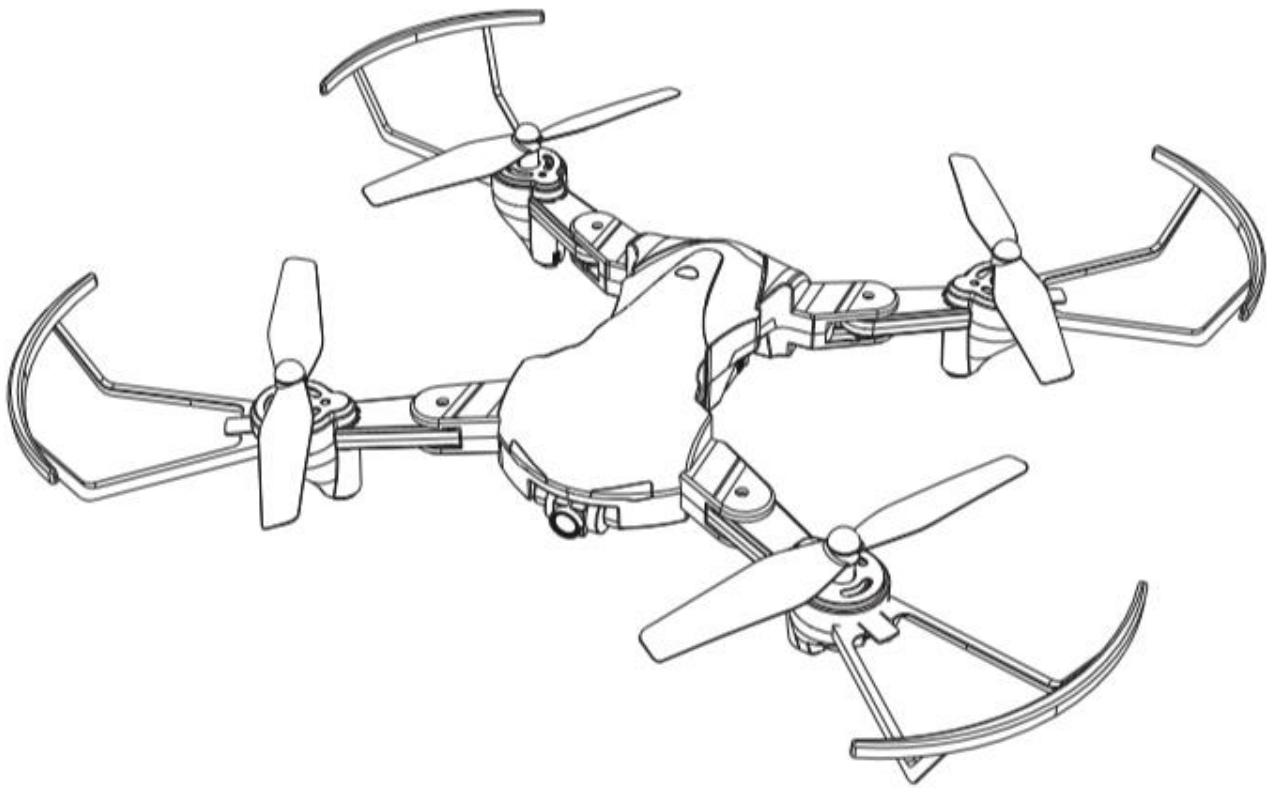# PRO FLIGHT

USER MANUAL

REMOTE CONTROL DRONE WITH HD CAMERA

PFBD301

Thank you for choosing ProFlight.

Please read this user manual before using this drone and keep it safe for future reference.
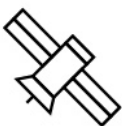
CONTENTS

SAFETY WARNINGS

- Read the entire instruction manual and familiarise yourself with the product and all its features before operating.
- Failure to operate the product correctly can result in damage to the product, surroundings or even serious injury.
- This product is not a toy and must be operated with caution and common sense. It requires some basic mechanical knowledge.
- This product is not intended for use by children without direct adult supervision.
- This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in this manual prior to assembly, setup or use in order to operate correctly and avoid damage or serious injury.
- The drone is not intended for use by children under 14 years of age. This is not a toy.
- Always operate your drone in open spaces away from vehicles, buildings, traffic and people.
- Always keep out of reach of children.
- Avoid exposure to water as moisture can cause damage to the electronics.
- Never operate your drone when the controller or drone batteries are low.
- The battery charger included with the drone has been designed to safely charge the battery. Do not use other chargers.
- Mishandling of batteries can result in a fire, personal injury, and /or property damage.
- By handling, charging or using the included Li-Po battery you assume all risks associated with lithium batteries.
- If at any time the battery begins to balloon or swell, discontinue use immediately. If charging or discharging, discontinue and disconnect. Continuing to use, charge or discharge a battery that is ballooning or swelling can result in fire.
- Always store the battery at room temperature in a dry area for best results.
- Do not store the battery or drone in a car or direct sunlight. If stored in a hot environment, the battery can be damaged or even catch fire.
- Never use any other type of battery charger other than the one supplied with the drone. Failure to charge the battery with a compatible charger may cause fire resulting in personal injury and/or property damage.
- Never exceed the recommended charge rate.
- When a Li-Po battery is discharged below 3.7V, the battery may be damaged and may no longer accept a charge. The drone will automatically land and become inactive when the battery approaches this level, this is to protect the battery.

SAFETY PRECAUTIONS
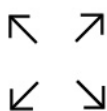
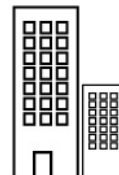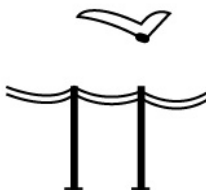| Only fly in an open space	Ensure good GPS signal	Keep within line of sight	Fly at a height below 80m

- When flying ensure that the drone is kept away from other people, trees, electric wires, buildings, airports or signal transmitting tower

- Ensure that the weather conditions are suitable for flying. Do not fly the drone during snow, rain, fog, thunder or in windy conditions.

DO NOT touch the rotating blades during operation. They can cause injury or damage to property

No-fly zones must be observed. It is the user's responsibility to ensure that the drone is operated legally and safely.

PREPARING FOR FIRST FLIGHT

1. Fully read and understand the safety warnings, and precautions.
2. Make sure both the transmitter and aircraft batteries are sufficiently charged.
3. Find a suitable place to fly the aircraft, away from people, buildings and vehicles.
4. Make sure the throttle stick is centred before turning on the transmitter.

BATTERY CHARGING

Use only the supplied USB Li-Po charger to charge your battery.

Remove the battery from the battery compartment on the rear of the aircraft. Press down the release buttons on both sides of the battery and slide the battery out.

Plug the charger into a USB socket before attaching the battery. When the battery is charging the LED on the charger will be red. When the battery is fully charged the LED will be green. Charging should take around 120-150 minutes. DO NOT leave the battery unattended whilst charging.
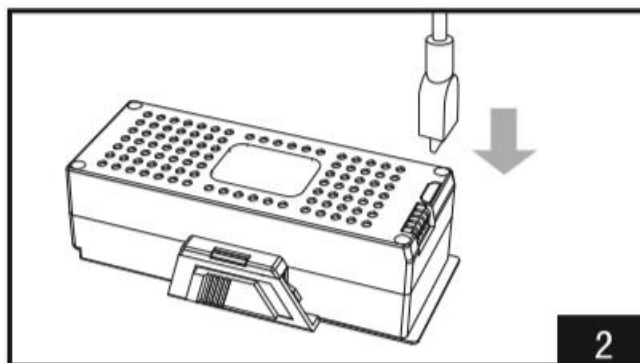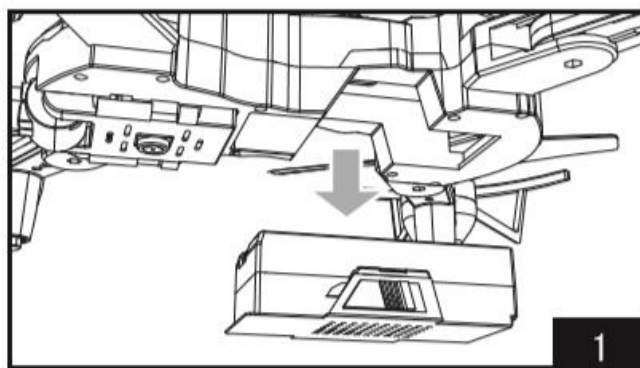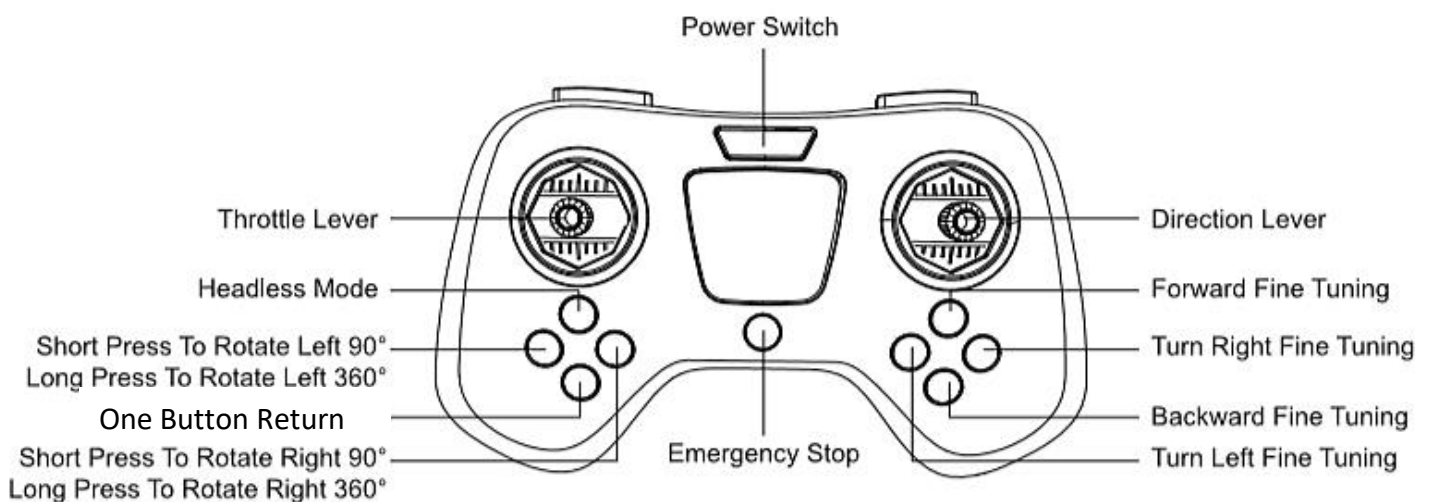

WARNINGS:

- DO NOT use other USB cables. They may lead to incorrect charging, and could cause damage or present a safety risk.
- When reinserting the battery, ensure that the triangle is on the top and make sure it is secure and fully clicks into place.
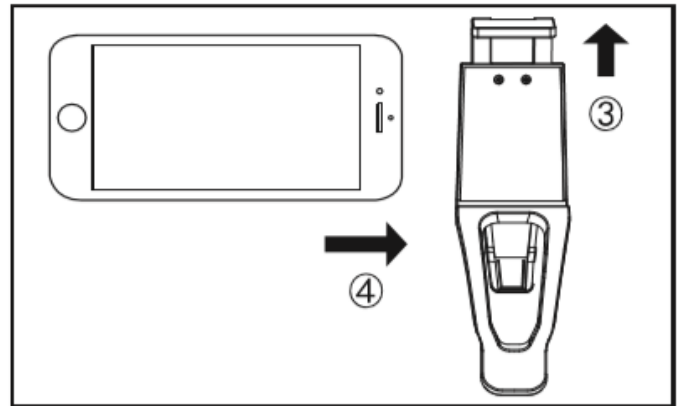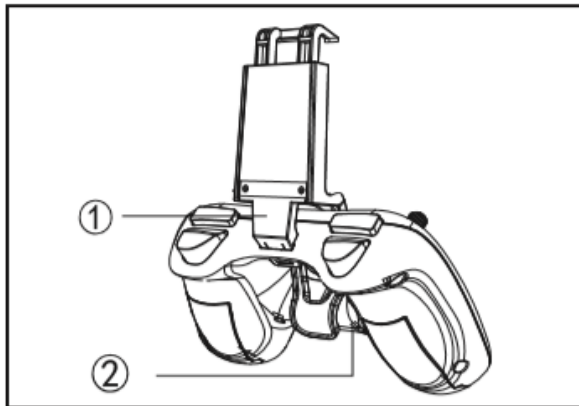
INSTALLING THE CONTROLLER BATTERIES

Unclip the battery covers from the rear of the controller and insert 4 x AAA batteries, making sure the correct polarity is followed. Once the batteries are correctly installed, the battery cover must be re-fitted. (Batteries not supplied)

CONTROLLER DIAGRAM

Photo/Video — Two Speed

One Button Landing — One Button Take Off

Power Switch

Throttle Lever — Direction Lever

Headless Mode — Forward Fine Tuning

Short Press To Rotate Left 90° — Turn Right Fine Tuning
Long Press To Rotate Left 360°

One Button Return — Backward Fine Tuning

Short Press To Rotate Right 90° — Turn Left Fine Tuning
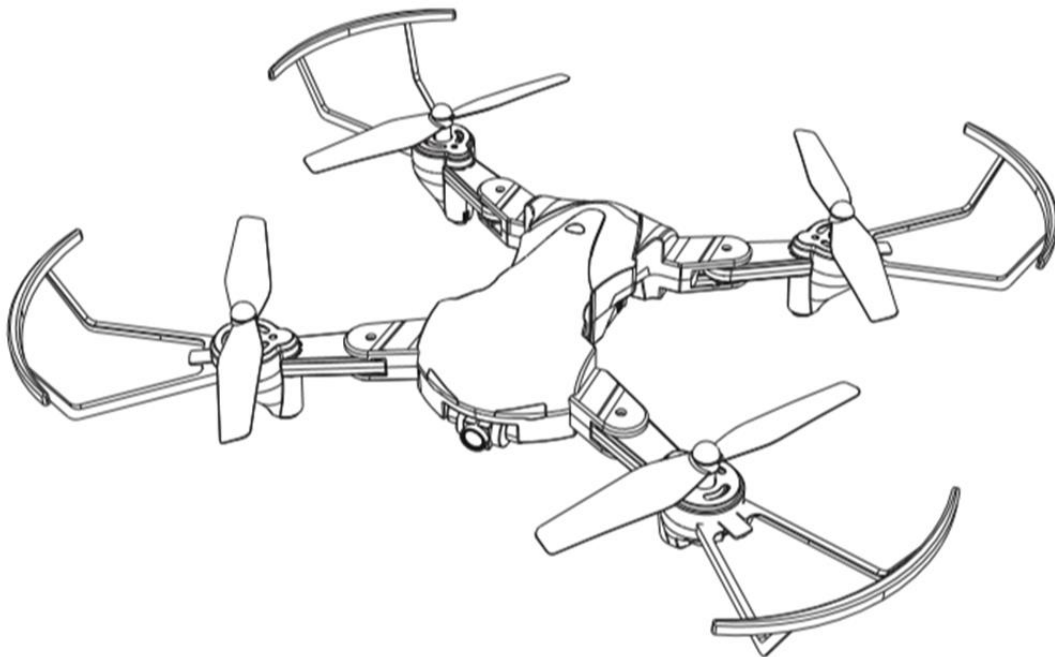Long Press To Rotate Right 360°

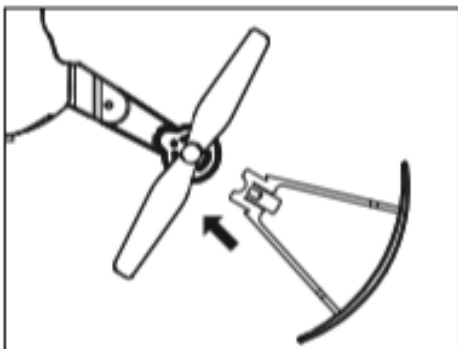Emergency Stop

MOBILE PHONE HOLDER

Hook the phone holder onto the controller by sliding the main hook through the centre hole and clipping the back lock into place.

DRONE DIAGRAM
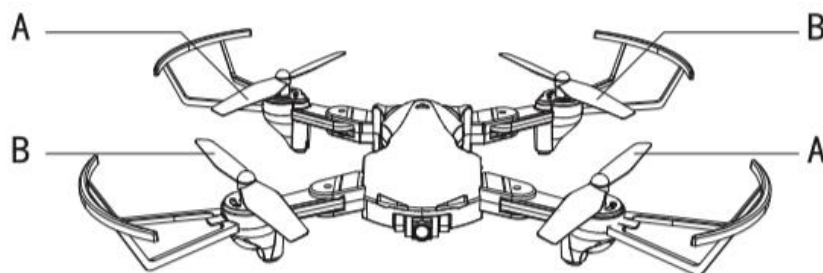

FITTING THE BLADE GUARDS

Press the blade guards into position.

FOLDING THE ARMS

1. Fold the front arms backwards until they sit close to the body of the drone.
2. Fold the rear arm down until it is parallel to the body.
   DO NOT FORCE THE ARMS AWAY FROM THE BODY AS THIS MAY RESULT IN DAMAGE.

REPLACEMENT OF THE PROPELLERS

Should one of the fitted propellers become damaged, it can be replaced, by removing the screw from the top of the propeller before sliding the propeller off the motor shaft. Refitting is the reversal of removal.

It is important for the correct blade to be placed on the correct motor or the aircraft will not fly correctly. Each blade is marked with an A or B on the top to indicate which motor it corresponds to.

PREPARING FOR FLIGHT
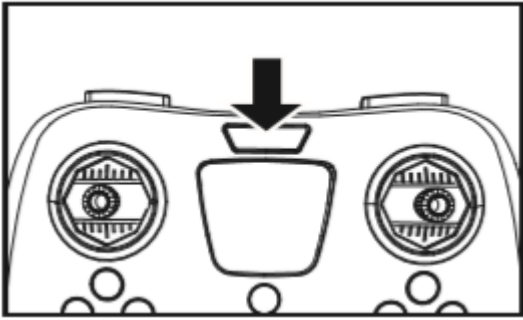
Power on the remote control by pressing and holding the power button in the middle of the controller.

Turn on the drone by pressing the button shown. Place the drone gently onto the ground.
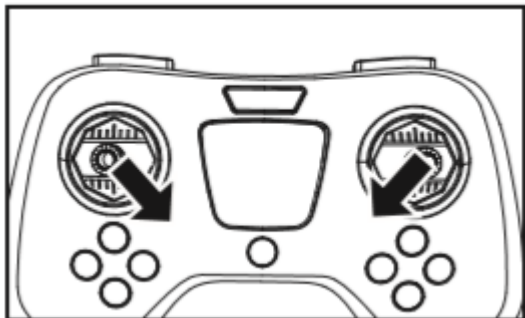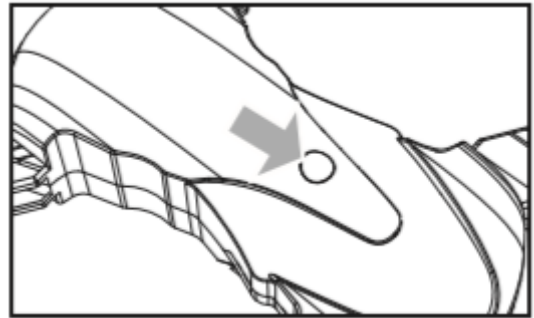
Push the throttle lever and the direction lever in the direction of the arrows shown. This will start the drone and you can start flying.
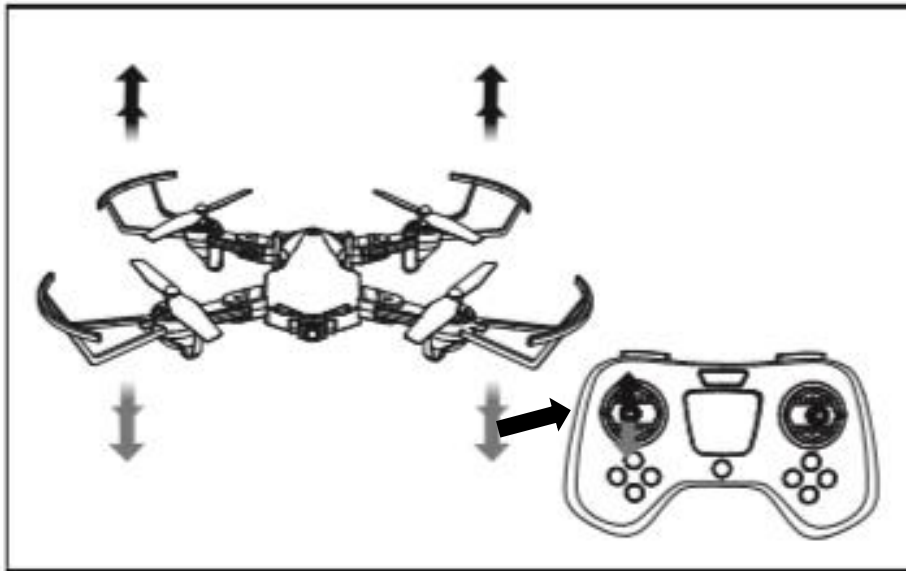
Push the throttle lever and the direction lever in the direction shown, the indicator light will change from a quick flash to a steady flash. This means the drone has been reset.
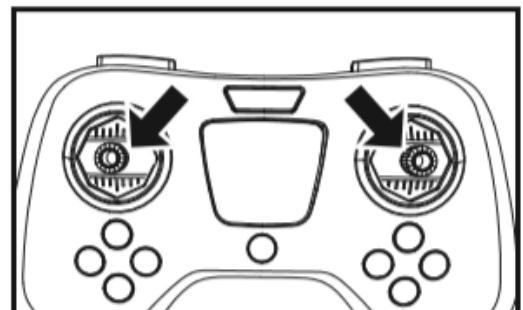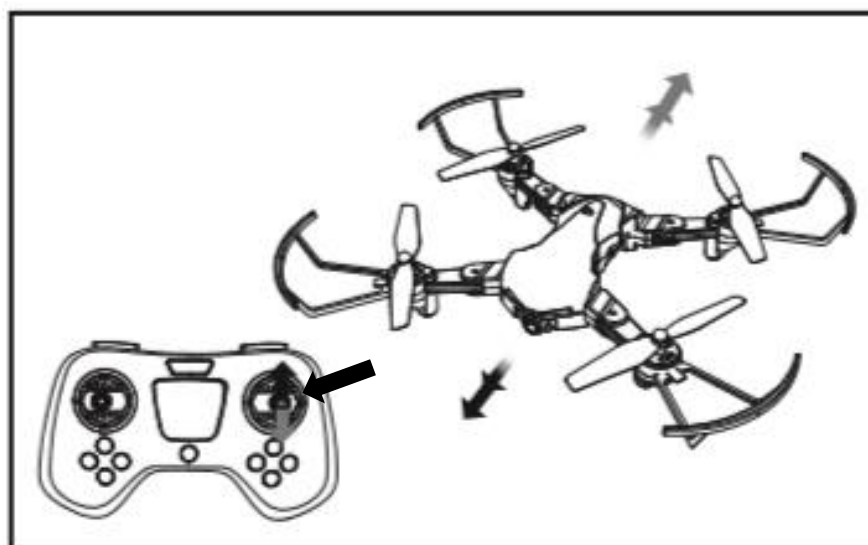
HOW TO CONTROL YOUR DRONE

Ascending and Descending

Push the throttle lever up and the drone will gain height. Push the throttle lever down and the drone will descend.
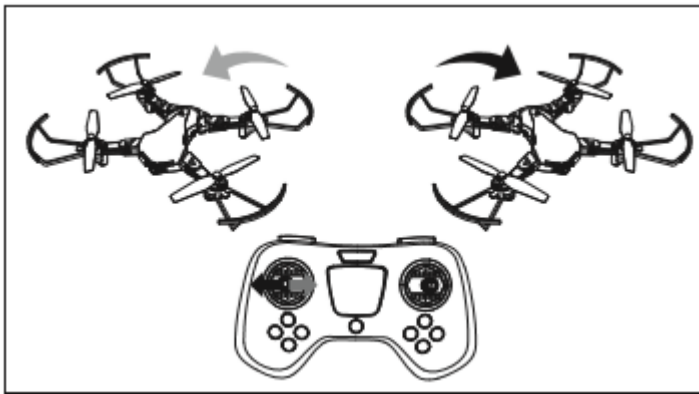

Moving Forward and Backwards

Push the direction lever up to move the drone forward and down to move the drone backwards.

Left and Right Turn

Push the throttle to the left or right and the drone will turn in the corresponding direction.

Left and Right Flying

Push the direction lever left or right and the drone will fly in the corresponding direction.

TRIMMING

To recover the drone back to the original factory settings for trim. Press and hold the left joystick to the bottom left corner and the right joystick to the bottom right corner for a few seconds. The lights on the drone will start to flash to confirm this has completed.
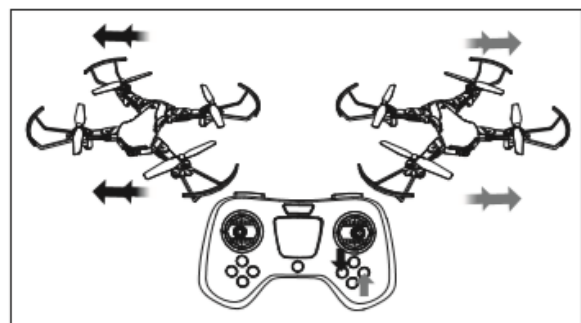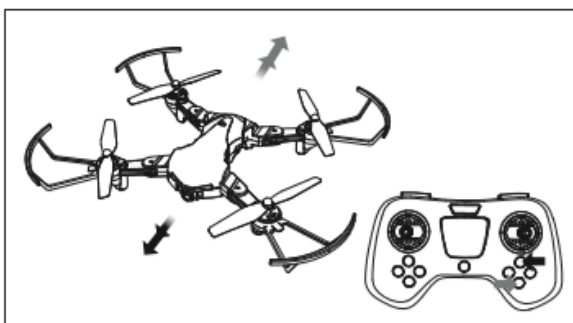
MAIN FUNCTIONS

Headless Flight

The drone can be made to fly in Headless mode by pressing the headless flight button. This will make the aircraft fly without a front or rear. It will fly in the orientation of the pilot. It does not matter which direction the drone is facing in headless mode.

One Button Return

Press the return button and the controller will emit a sound, the indicator light will flash slowly. The aircraft will return to the controller regardless of the direction. Press one button return to cancel this function.

Emergency Stop

In the event that you notice an obstruction or lose control of the drone press the emergency stop button in the centre of the controller and the drone will stop flying immediately. Please note the drone drop suddenly, use caution to prevent damage.

Rotate

Press the rotate button once and the drone will rotate 90º. Press and hold the rotate button and the drone will rotate 360º.

Speed Control

Short press the speed trigger to increase the speed. Beep sound indicates low speed and beep sound indicated the speed has increased.

One Button Take Off and Landing

Press the back left trigger and the drone will instantly take off and maintain a steady hover. Press the back right trigger and the drone will gently land and stop.

Photo and Video

Press the front right trigger and a beep will sound which indicates a picture has been taken. Press and hold the front right trigger and beep will sound which means video recording has started. Press again to cancel.

Wi-Fi AND PHONE CONNECTION

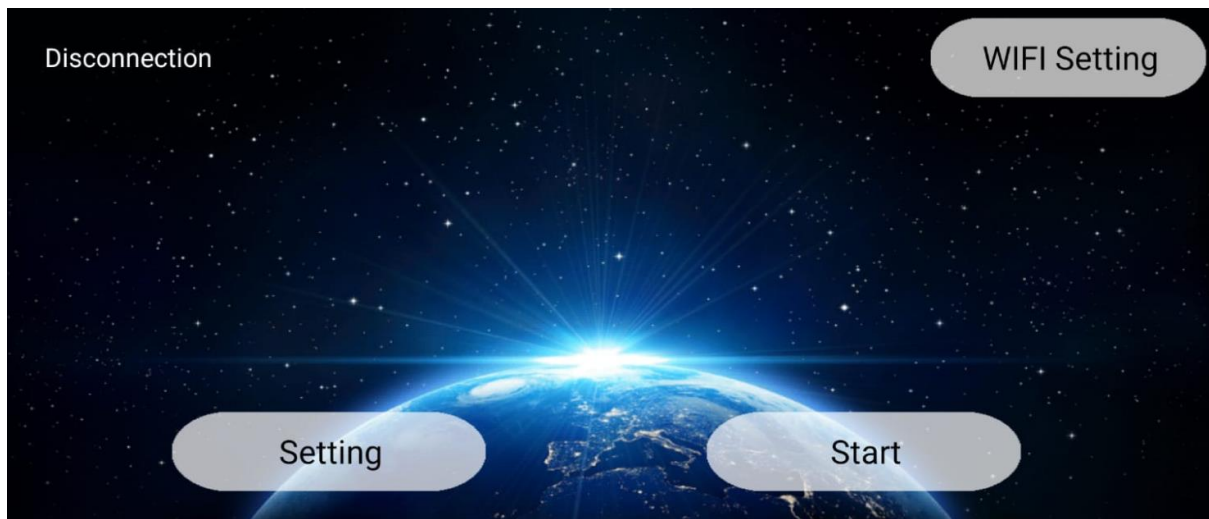Install the YX Wi-Fi app on your device by scanning the relevant QR code below.
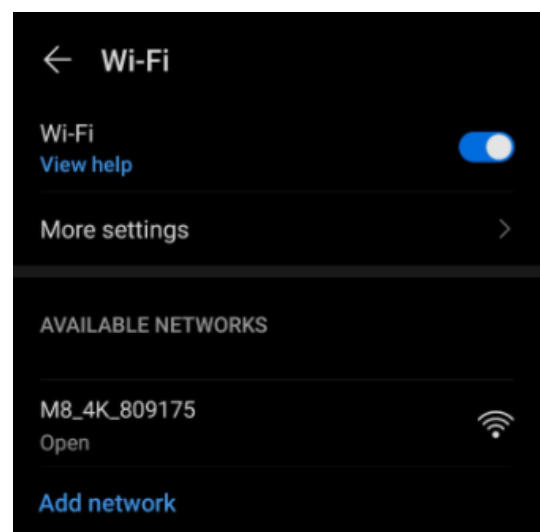

ANDROID

IOS

After you have installed the app open the app and you will be greeted with the homepage.


Ensure the drone is turned on and enter WI-FI SETTINGS by pressing the WIFI settings on the top left of the homepage. Select the drone from the list of available networks.

After successfully connecting the drone return to the homepage and press the SETTING button. In the settings menu you can chose your control mode to suit your preferred layout.
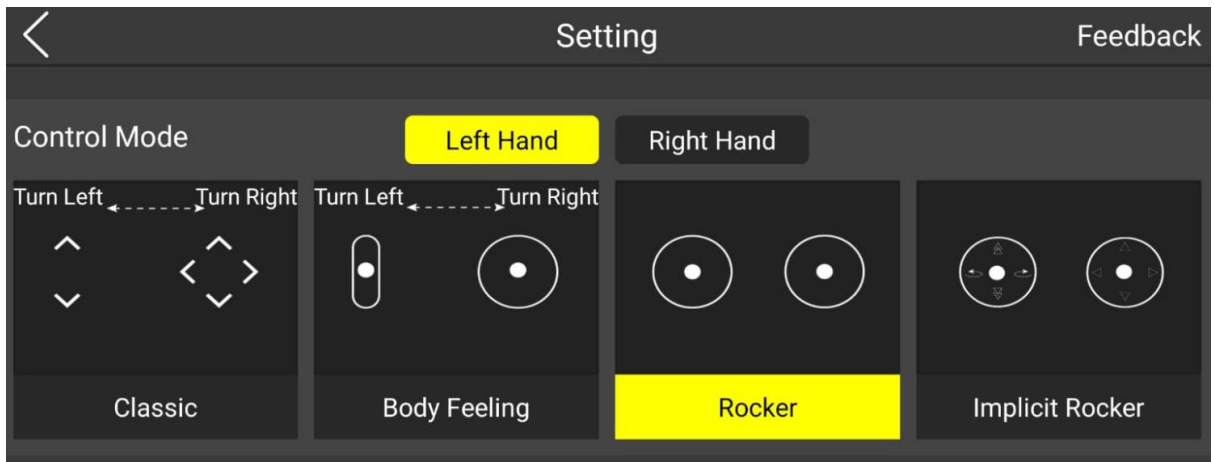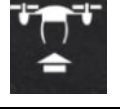

Within the settings menu you can also update the firmware and alter the camera settings, video settings and language.
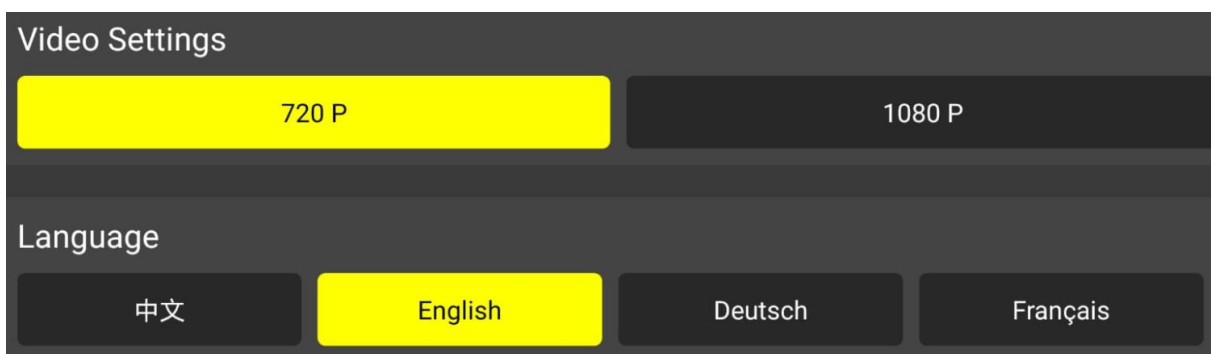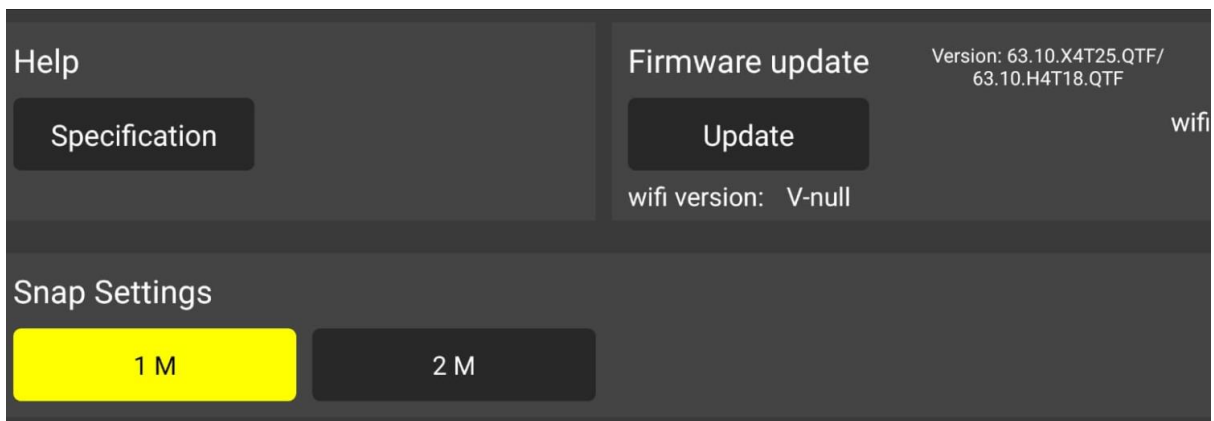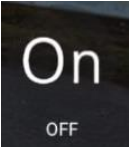
CONTROLLING THE DRONE VIA THE APP

Once you have adjusted the settings to your liking you will be able to control the drone through the control screen on your phone, this can be accessed by pressing the start button on the homepage. For ease of use we recommend you mount your phone in the provided phone holder.
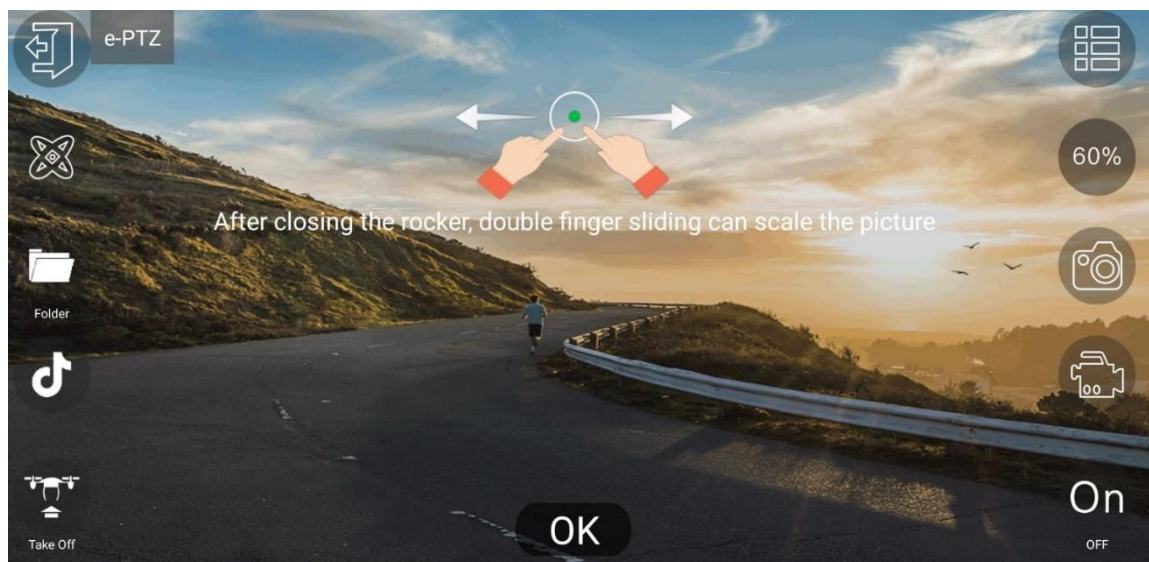
	EXIT	Press this button to exit the control menu and return to the homepage.
	CALIBRATION	Calibrate the drone.
	FOLDER	Access your saved pictures and videos
	PLAY MUSIC	Play music from your device while you fly your drone and access filters for the camera/3D camera mode and folder.
	TAKE OFF	Press take off and the drone will take off and maintain a steady hover.
	CHANGE SPEED	Press this to change the speed between 30, 60 and 100 percent.

	TAKE PHOTO	Press once to take a picture.
	TAKE VIDEO	Press once to start video capture. Press again to cancel and save video.
	TURN THE ON SCREEN JOYSTICKS ON	Press once to turn on the on-screen joysticks. Press again to turn them off. The on-screen joystciks work in the same way as the controller joysticks.
	ACCESS EXTRA FUNCTIONS	Press once to access the extra functions menu on the top of the screen. Press again to close.

EXTRA FUNCTIONS

1. **GESTURE CONTROL:** Use gestures to take pictures and video.
2. **FOLLOW MODE:** The drone will follow your movement.
3. **PALM CONTROL**: Control the drones flight with your hand.
4. **VR MODE:** Enter VR mode, only compatible with VR headsets.
5. **HEADLESS MODE:** Press the headless mode button once to enter the headless flight mode. Press again to exit.
6. **TRACKING MODE:** Draw the route you wish your drone to take.
7. **LENS REVERSE:** Change the lens viewpoint.

WARNING:

- Always calibrate the drone before controlling using the APP.
- Ensure you understand the operating instructions provided before attempting to fly.
- Android device operating system must be 5.0 or higher.
- If you experience problems with the image, the drone is either too far away or there is too much interference in the area. Try moving to a place with less interference.
- Ensure all safety warnings in the front of the manual are adhered to.

TROUBLESHOOTING

	Problem	Cause	Solution
1	The lights on the aircraft are flashing but it does not respond to the control	1. The aircraft and transmitter are not connected. 2. Insufficient battery power.	1. Repeat the connection procedure. 2. Recharge the battery.
2	The aircraft blades turn but it will not take off	1. Insufficient battery power. 2. The blades are distorted. 3. Take off button not pressed.	1. Recharge the battery. 2. Replace the blades. 3. Press the take-off button.
3	The aircraft shakes in flight	The blades are damaged/distorted	Replace the blades.
4	The aircraft won't fly using the App.	1. Aircraft not connected to App. 2. Connection not done in correct order. 3. Main controller is turned on.	1. Aircraft cannot fly on App when main controller is turned on. Turn off the controller, reset aircraft, app and WiFi to reconnect to App
5	Camera not working in App	1. Aircraft not connected to App.	1. Reconnect using the instructions on page 14

SUPPORT

Disposal: Do not dispose this product as unsorted municipal waste. Collection of such waste must be handled separately as special treatment is necessary

Recycling facilities are now available for all customers at which you can deposit your old electrical products. Customers will be able to take any old electrical equipment to participating civic amenity sites run by their local councils. Please remember that this equipment will be further handled during the recycling process, so please be considerate when depositing your equipment. Please contact the local council for details of your local household waste recycling centres.

UK Support

http://www.proflightuk.co.uk/support/

If you have been through the troubleshooting, and the unit is failing to operate, our service line can be contacted on: 0330 390 3062

Office hours: 9AM - 5PM Monday to Friday
www.proflightuk.co.uk
Unit J6, Lowfields Business Park
Lowfields Way, Elland
West Yorkshire, HX5 9DA

TECHNICAL SPECIFICATION

Product Size (cm)	37.2*33.2*6.4
Carton Size	46.5*34.5*55.5
Box Contents	1 x Drone 1 x 2.4G Remote controller 4X Blade 1 X manual 1 X Battery 1X Screwdriver 1*USB Charger
Flying time (On Full Charge)	16-17 minutes (approx)
Controller Batteries	4 AAA (Not Included)
RC Distance	80 meters
Wi-Fi Distance	30 meters
Drone Battery	3.7V 1800mAH
Weight	179.1g / 188.7 (with blade guards fitted)