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Drone X22

USER MANUAL

EN

Content

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1 Intended use

The Drone X22 is an advanced unmanned air vehicle that you can control remotely. The product is equipped with a camera, which allows you to make 720P video recordings and take 2 MP photos. The product supports joystick, telephone and gesture control. The product is intended for consumer use, not for professional use.

2 Safety

2.1 Labels in this manual

⚠ **WARNING** A warning means that injury is possible if the instructions are not obeyed.

⚠ **CAUTION** A caution means that damage to the equipment is possible.

ℹ A note gives additional information, e.g. for a procedure.

2.2 General safety instructions

General

⚠ To prevent damage or malfunctions: Please take time and read the general safety instructions. This will avoid fire, explosions, electric shocks or other hazards that may result in damage to property and/ or severe or fatal injuries.

⚠ The manufacturer is not liable for cases of material damage or personal injury caused by incorrect handling or non compliance with the safety instructions. In such cases, the warranty will be voided.

WARNING

⚠ Do not put force on the appliance.

⚠ Only use original accessories from the manufacturer.

⚠ Do not spill any liquid on the appliance.

⚠ Do not insert any objects in the ventilation holes.

⚠ Do not block the ventilation holes.

⚠ Never leave children unattended with the packaging material. The packaging material represents a danger of suffocation. Children frequently underestimate the danger. Always keep children away from the packaging material.

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CAUTION

⚠ Clean the outside of the appliance with a soft cloth. When the appliance is very dirty, dampen the cloth slightly with water and a neutral solution.

⚠ Do not put the appliance near a heat source. This could damage the appliance.

⚠ Check the product, cable and (if applicable) adapter for any damage before use. If there is any visible damage, strong odour, or excessive overheating of components, unplug the product.

⚠ The camera contains sensitive components, including the battery. Avoid exposing your camera and battery to very cold or very hot temperatures. Low or high temperature conditions may temporarily shorten the battery life or cause the camera to temporarily stop working properly. Avoid dramatic changes in temperature or humidity when using the camera, as condensation may form on or within the camera.

Remarks

⚠ **WARNING** It is not permitted to open the product yourself or to have it opened, neither is it permitted to repair the product yourself or to have it repaired. This will void the warranties. Please let any maintenance be carried out by certified maintenance personnel.

Before flying

⚠ Consult the locally applicable laws and regulations concerning the use of drones.

⚠ Make sure you are sufficiently insured according to local laws and regulations.

⚠ Recharge the batteries completely.

⚠ Take into account the weather conditions: avoid rain and strong winds.

⚠ Never fly in a no fly zone.

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⚠ Keep the firmware of the drone up-to-date.

⚠ Check the drone and propellers for defects and / or damage for each flight.

⚠ Check the surroundings for obstacles and transmitter masts.

⚠ Not suitable for children under fourteen years.

While flying

⚠ Follow local applicable laws and regulations regarding the use of drones.

⚠ Keep bystanders at a suitable distance

⚠ Do not lose sight of the drone.

⚠ Only use the drone in daylight.

⚠ Do not fly above people, (rail) roads and buildings.

⚠ Pay attention to the battery level and return in time.

After flying

⚠ Switch off the drone and remove the battery.

⚠ Clean and dry the drone.

⚠ Store the drone carefully.

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3 Preparations for use

3.1 Unpacking

- Unpack the appliance carefully.
- Check the package contents as described below. If any item is missing, please contact your reseller.
- We recommend that you retain the original carton and packaging materials in case it ever becomes necessary to return your product for service. This is the only way to safely protect the product against damage in transit. If you do dispose of the carton and the packaging materials, please remember to recycle with due care to the environment.

3.2 Package contents
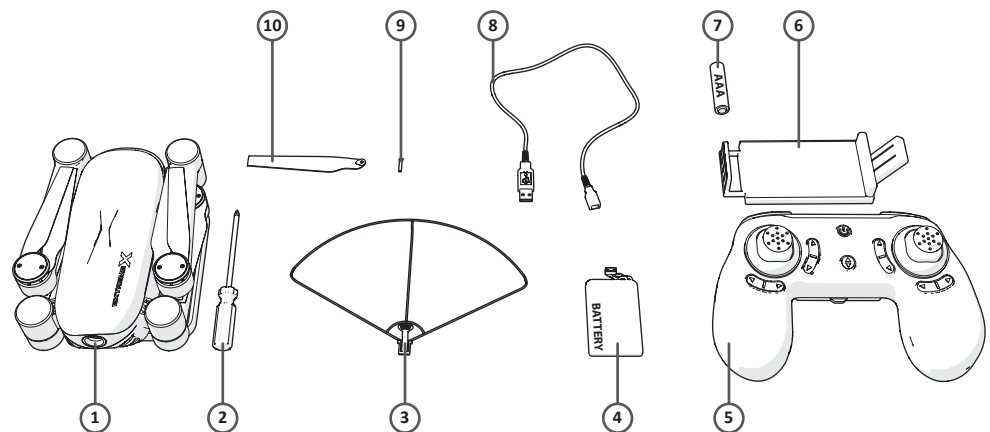
The following items are included in the received package:

1. Drone
2. Screwdriver
3. Guards
4. Battery
5. Joystick
6. Telephone holder
7. AAA batteries
8. USB connectingcable
9. Screws
10. Propellers
11. Quick start guide
12. Safety instructions

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4 Main parts

Drone
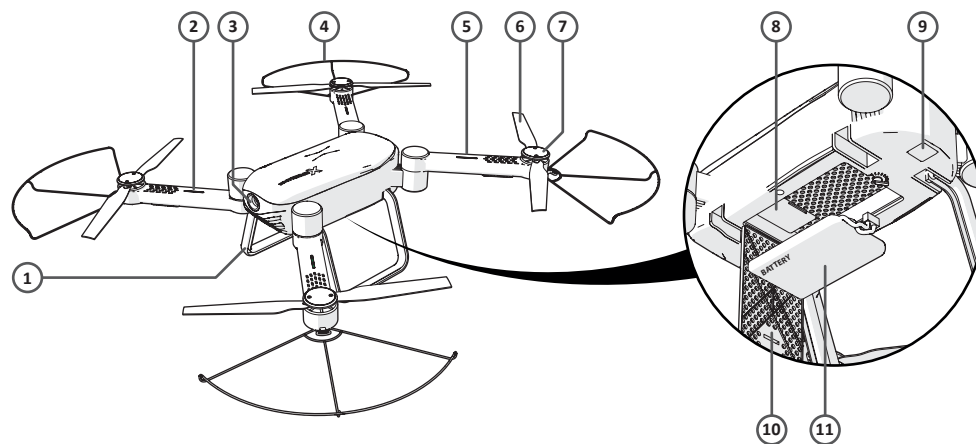
1. Landing gear
2. Front LED indicator (green)
3. Camera
4. Protective guard
5. Back LED indicator (red)
6. Propeller
7. Blade cover
8. Slot-in for micro SD card
9. On/Off
10. Battery cover
11. Battery

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Joystick
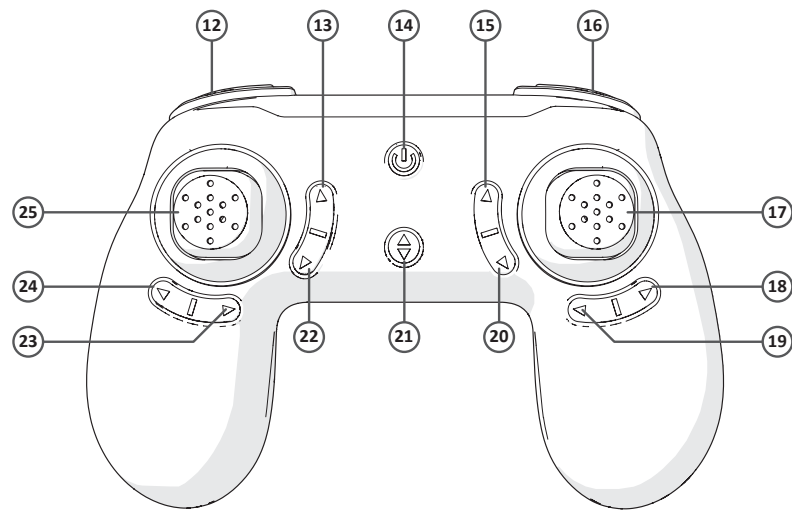
12. Low / middle / high speed

13. Take a photo

14. On/Off

15. Forward fine tuning

16. LED on / LED off

17. Forward / right / backward / left

18. Left fine tuning

19. Right fine tuning

20. Backward fine tuning

21. Automatic take off / Automatic landing

22. Record video

23. Right rotating fine tuning

24. Left rotating fine tuning

25. Rise / rotate right / decline / rotate left

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5 Installation

5.1 Charging the battery

- Open the battery cover.
- Disconnect the battery.
- Connect the USB connection cable to the battery.
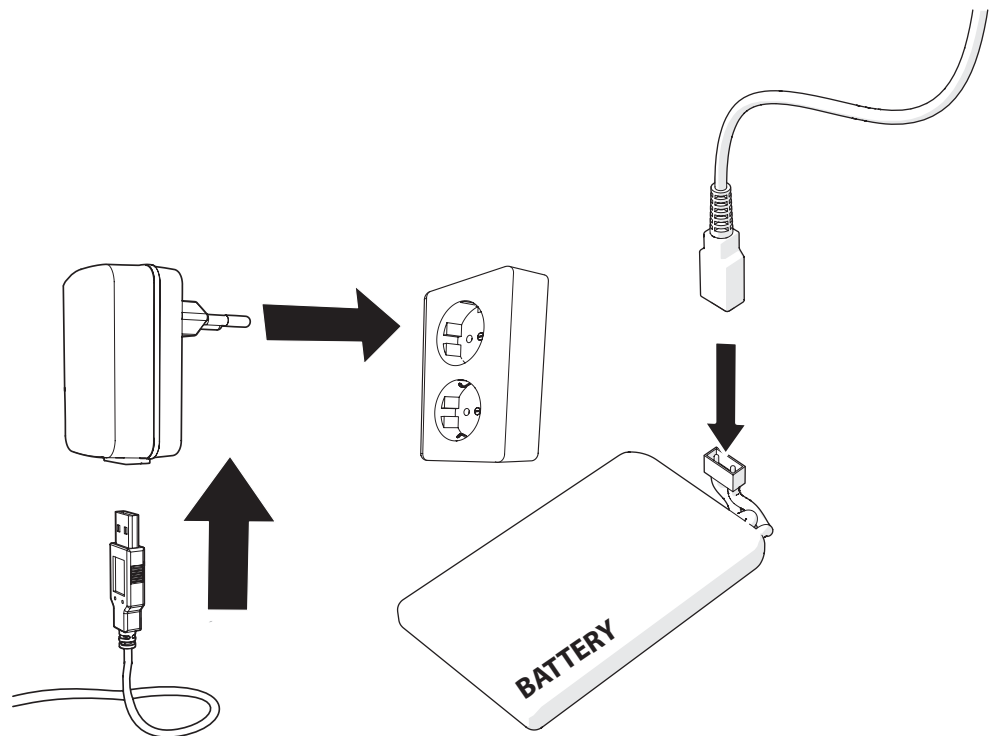- Connect the USB to a power source.

i It takes approximately 90 minutes to fully charge the battery.

5.2 Memory Card: Placement and access

i Due to the great variety of products with external memory connection (USB, SD/MMC, etc.) and their sometimes quite manufacturer-specific functions we can neither guarantee that all devices will be recognised, nor that all operating options that are possible in theory will actually work.

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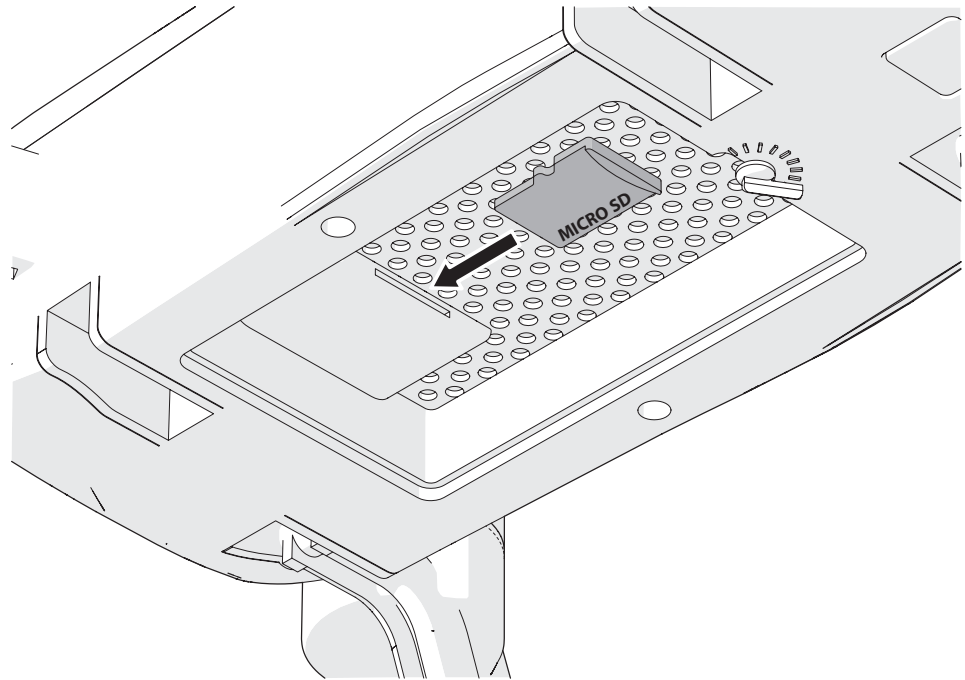
- Insert the memory card into the Micro SD card slot.

i Memory card max. 32 Gb.

5.3 Inserting the batteries in the joystick

- Open the battery compartment of the joystick.
- Insert the AAA batteries into the battery compartment of the joystick.

i Insert the batteries matching the (+) and (-) polarity markings.

5.4 Installing the HFUN app

- Download the HFUN app for Android of iOS onto your phone via Google Play or the Apple App Store.

6 Usage

6.1 Turning the drone On or Off

Hold 1s
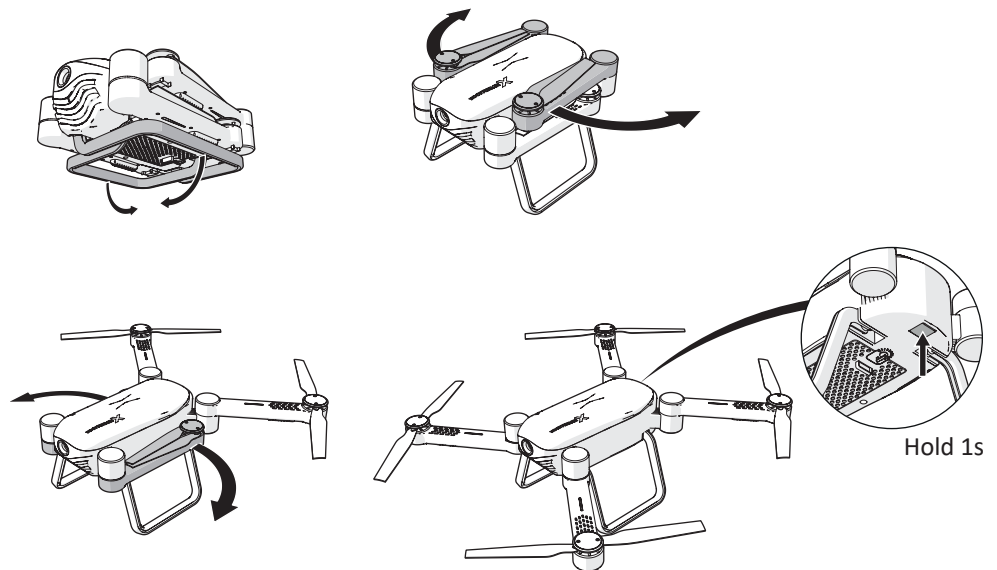
- Fold out the landing gear.
- Open the arms of the drone.
- Press and hold the on/off button for 1 second.

The drone is now on.

ℹ️ Press and hold the power button again for 1 second to turn off the drone.

6.2 Installing guards

- Slide the guards onto the arms.

ℹ️ When you hear a click, the guard is securely attached.

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6.3 Connecting the joystick

ℹ️ Make sure the drone is switched on before establishing a connection with the joystick.
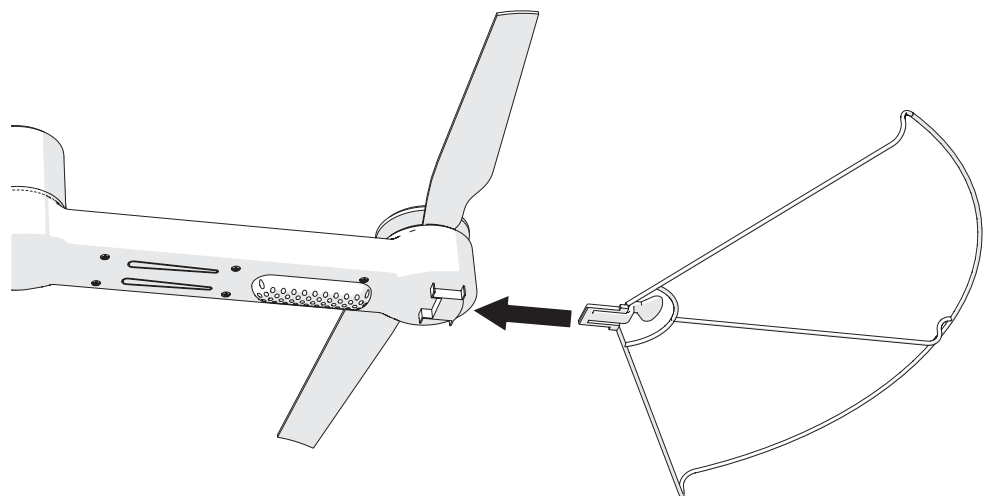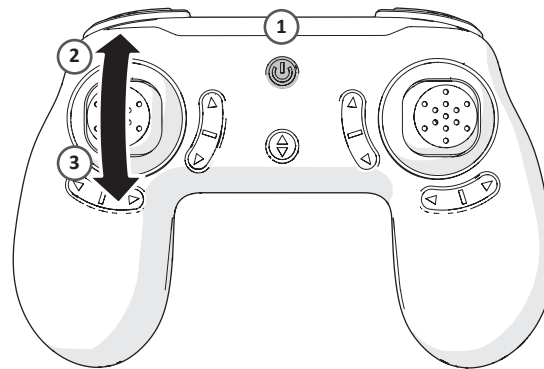
- Press and hold the on/off button for 1 second.
- Move the left thumbstick up and down.

The joystick is now connected to the drone.

ℹ️ The LED indicators of the drone will flash when the drone is ready to connect. The LED indicators of the drone light up when the joystick is connected to the drone.

6.4 Control with the joystick
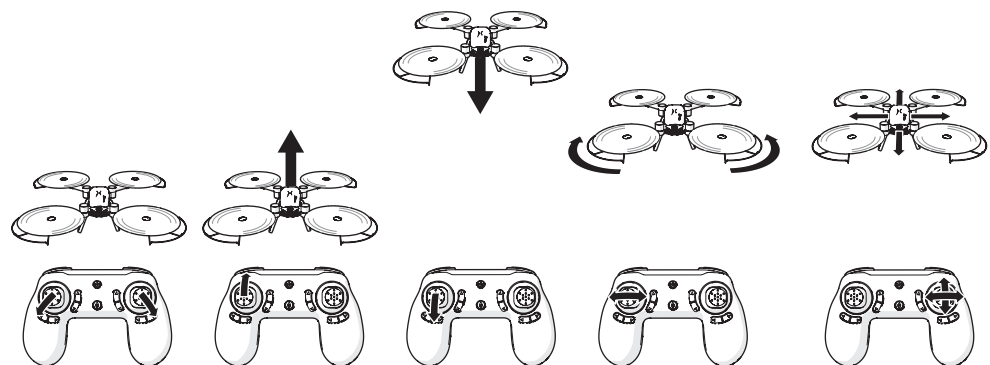
6.4.1 Start

- To start the drone, move the left thumbstick to the bottom left and the right thumbstick to the bottom right at the same time.

6.4.2 Rise

- Move the left thumbstick up to move the drone upwards.

6.4.3 Decline

- Move the left thumbstick down to move the drone downwards.

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6.4.4 Rotate

• Move the left thumbstick to the left or right to make the drone rotate.

6.4.5 Panning

• Move the right thumbstick to fly the drone forwards, backwards, left or right.

6.5 Connecting the HFUN app

ℹ️ Make sure the drone is switched on before establishing a connection with the app.

• Enable the WiFi function on your phone.
• Open the WiFi settings and select the drone.

The drone is now connected to your phone.

• Open the HFUN app on your mobile phone.
• Press 'Start'.

The drone control screen is displayed.

6.6 Control using the HFUN app
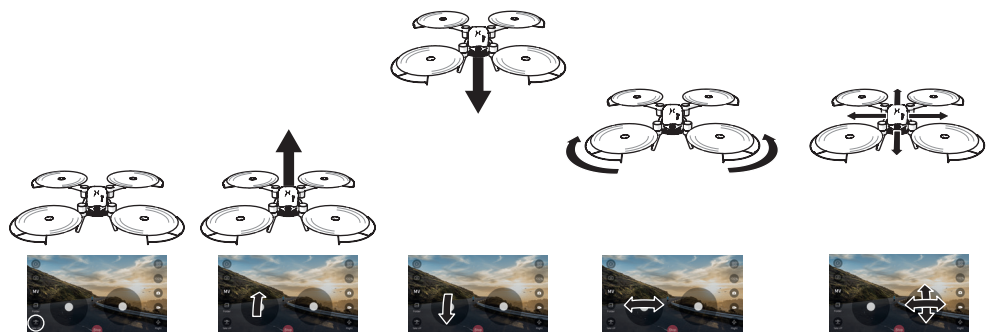
6.6.1 Start

• Press 'Take off' in the bottom left corner.

The drone starts and moves upwards to a certain height.

6.6.2 Rise

• Move the left thumbstick up to move the drone upwards.

6.6.3 Decline

• Move the left thumbstick down to move the drone downwards.

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6.6.4 Rotate

• Move the left thumbstick to the left or right to make the drone rotate.
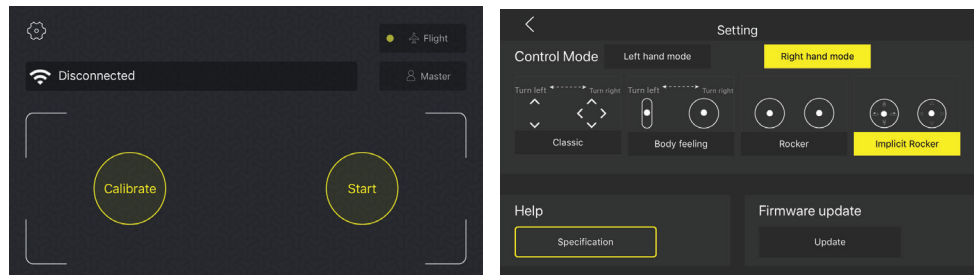
6.6.5 Panning

• Move the right thumbstick to fly the drone forwards, backwards, left or right.

6.7 Adjusting the controller's interface

• Press the button with the settings icon.

Under 'Control Mode' four different control options are shown:

1. Classic

Move the left thumbstick up or down to move the drone upwards or downwards. Move the right thumbstick to fly the drone forwards, backwards, left or right. Move your finger across the screen from left or right to make the drone rotate.

2. Body feeling

Move the left thumbstick up or down to move the drone upwards or downwards. Move your finger across the screen from left or right to make the drone rotate. Press and hold the right thumbstick and move your phone to fly the drone forwards, backwards, to the left or right.

3. Rocker

The Rocker is the control's standard interface (section 6.6).
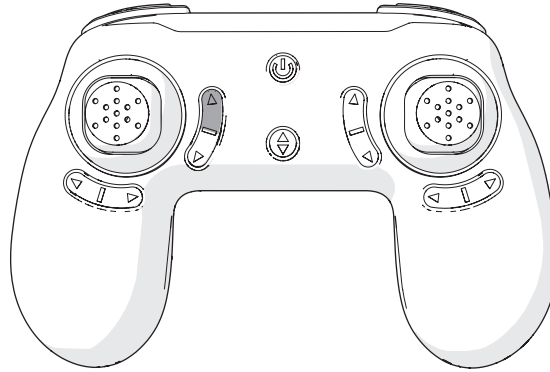
4. Implicit rocker

The Implicit rocker is identical to the Rocker interface, but will not be displayed until the phone's screen is touched.

• Select the desired interface.

6.8 Take a photo

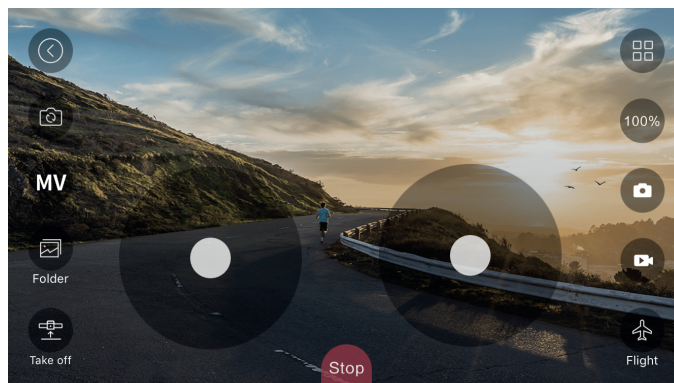You can take a photo with the joystick or with the app.

6.8.1 Taking a photo with the joystick

- Press the 'take a photo' button.

ℹ️ Make sure you have inserted a micro SD card into the drone, otherwise the photo will not be saved.

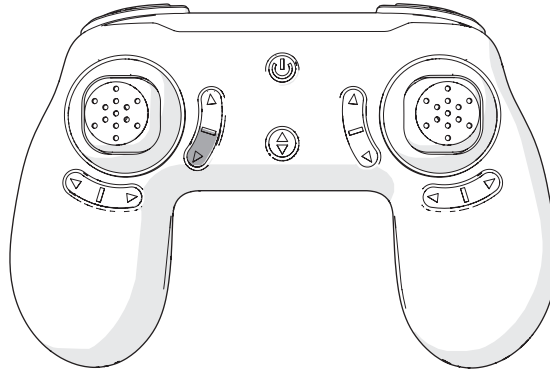### 6.8.2 Taking a photo with the app

- Press the button with the camera icon.

ℹ️ The photo is stored in the memory of your phone.

6.9   Starting a movie recording

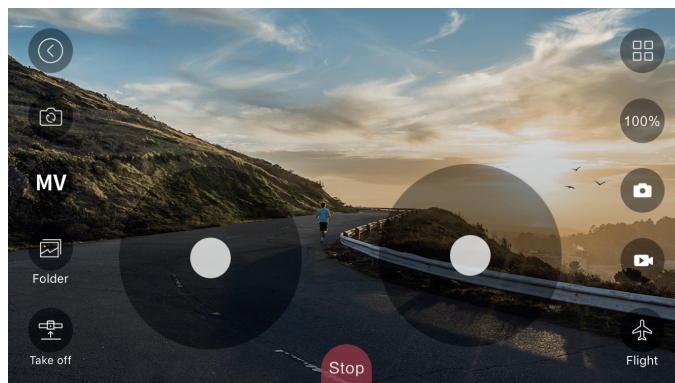You can make a video with the joystick or with the app.

6.9.1 Making a video with the joystick

- Press the 'start a video' button.

ℹ️   Make sure you have inserted a micro SD card into the drone, otherwise the video will not be saved.
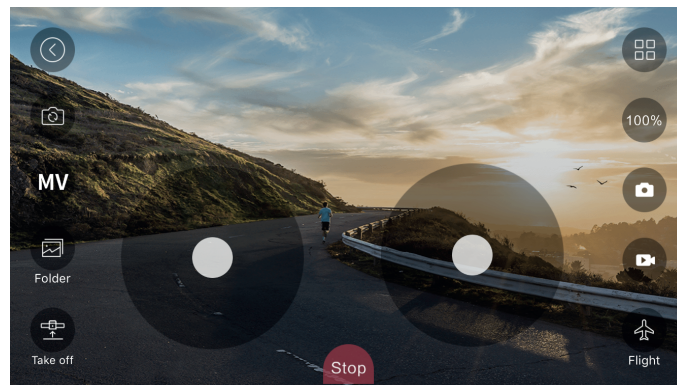
6.9.2 Making a video with the app

- Press the button with the video icon.

ℹ️   The video is stored in the memory of your phone.

6.10 Using the Follow Me function

- Move the drone upwards.
- Press the air plane icon.

The icon changes to the master icon.

Persons in front of the camera of the drone will be identified with a blue frame.

- Press a blue frame to activate the Follow Me function.

The blue frame turns red and the drone will follow the selected person.

6.11 Controlling the drone with your hand

- Move the drone upwards.
- Press the Miscellaneous icon in the top right corner of the screen.
- Press the button with the hand icon.
- Keep your palm open at a distance of 1 metre from the drone's camera.

A red frame will appear around your palm.

- Move your hand up, down, to the right or left and the drone will follow your hand.

6.12 Storing the drone
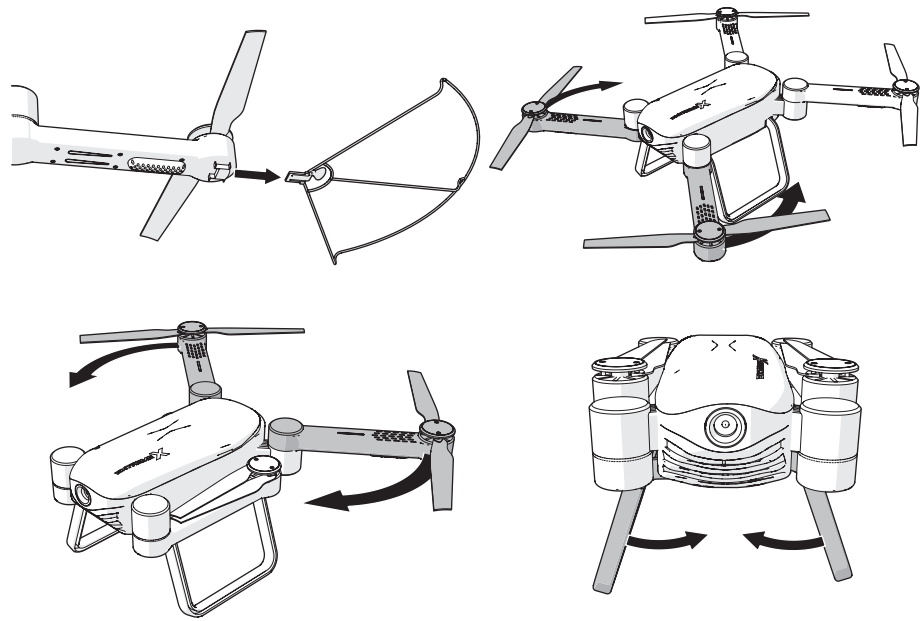
- Turn off the drone before storing.
- Remove the guards.
- Close the arms of the drone.
- Fold the landing gear.

7 Cleaning and maintenance

- Clean regularly with a soft, clean, dry cloth. Avoid abrasives that can damage the surface.
- Do not use aggressive chemical cleaning agents such as ammonia, acid or acetone when cleaning the product.

8 Technical specifications

- Model number: Drone X22
- Max. signal distance: 30 - 50 m
- Max. flight time: 12 min
- Frequency range: 2.4 GHz
- Viewing angle: 120 degrees
- Resolution: 2 MP (1280 x 720P)
- Battery: Li-Po battery
- Battery capacity: 1200 mAh
- Voltage: 3.7 V
- Battery charging time: 90 min
- Dimensions: 38 x 41 x 8.8 mm
- Memory: Micro SD card (Max. 32 Gb)
- Working range: -10°C - +55°C
- Temperature for storage: -20°C - +70°C

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9 Disposal of used electric and electronic equipment

The meaning of the symbol on the material, its accessory or packaging indicates that this product shall not be treated as household waste. Please, dispose of this equipment at your applicable collection point for the recycling of electrical and electronic equipments waste. In the European Union and other European countries which there are separate collection systems for used electrical and electronic product. By ensuring the correct disposal of this product, you will help prevent potentially hazardous to the environment and to human health, which could otherwise be caused by unsuitable waste handling of this product. The recycling of materials will help conserve natural resources. Please do not therefore dispose of your old electrical and electronic equipment with your household waste.

For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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