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GEPAS SJRC F22s

SJRC F22s 4K PRO Drone User Manual

Model: SJRC F22s | Brand: GEPAS

INTRODUCTION

Thank you for purchasing the GEPAS SJRC F22s 4K PRO Drone. This professional-grade quadcopter features a real 4K EIS camera, laser obstacle avoidance, and advanced intelligent flight modes, offering an exceptional aerial photography and flight experience. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting. Please read it thoroughly before your first flight.



The SJRC F22s 4K PRO Drone, shown with its remote control, spare propellers, and carrying case, ready for flight.

SAFETY INFORMATION

Always prioritize safety during drone operation. Failure to follow these guidelines may result in injury, damage to property, or legal consequences.

- **Pre-Flight Check:** Ensure all components are in good working order, batteries are fully charged, and propellers are securely attached before each flight.
- **Flight Environment:** Fly in open areas, away from people, buildings, trees, and power lines. Avoid flying in strong winds, rain, or fog.
- **Line of Sight:** Always maintain visual line of sight with the drone during flight.
- **Battery Safety:** Use only original batteries and chargers. Do not overcharge or puncture batteries. Store batteries in a cool, dry place.
- **Respect Privacy:** Be mindful of privacy laws when using the camera.
- **Age Restriction:** This product is intended for adult use (Age Range: Adult).

PACKAGE CONTENTS

Verify that all items are present in your package:

- SJRC F22s 4K PRO Drone

- Remote Control
- Drone Battery (11.1V 3500mAh)
- USB Charging Cable
- Spare Propellers
- Screwdriver
- User Manual (this document)
- Carrying Case (if included in your specific package)
- SD Card (32G-128G, optional)



A visual representation of the drone and its standard accessories, including the remote, batteries, and tools.

PRODUCT OVERVIEW

The SJRC F22s drone is designed for stability and high-quality imaging. Key features include a 2-Axis Electronic Stabilization Gimbal for the 4K camera and integrated laser obstacle avoidance.

F22s

『 INTELLIGENT LASER OBSTACLE AVOIDANCE 』

To escort your flight.



The F22s drone showcasing its advanced control system and EIS stability enhancement technology for smooth flight.

Dimensions

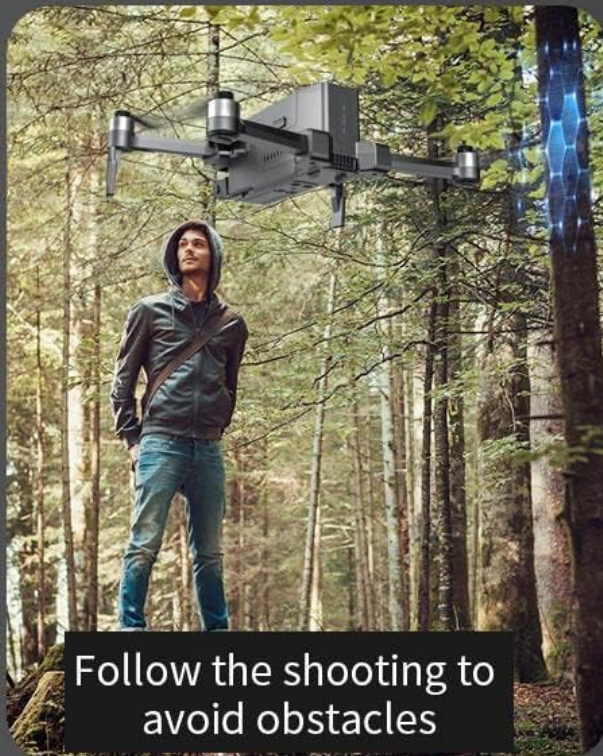
The drone features a foldable design for portability.

- **Unfolded Dimensions:** 350mm x 350mm x 80mm (15"L x 6"W x 15"H)
- **Folded Dimensions:** 210mm x 95mm x 80mm

[Folding size]



Unfolded dimensions of the drone, showing its full operational size.



Folded dimensions of the drone, illustrating its compact storage size.

SETUP

1. Charging Batteries

- **Drone Battery:** Connect the drone battery to the USB charging cable. Plug the cable into a 5V/3A USB power adapter (not included). Charging time is approximately 4.5 hours.
- **Remote Control Battery:** Connect the remote control to the USB charging cable. Charging time is approximately 2 hours.
- Ensure batteries are fully charged before each flight.

2. Unfolding the Drone

Carefully unfold the drone arms until they click into place. Ensure all arms are fully extended and locked.

3. Propeller Installation (if necessary)

If propellers are not pre-installed, attach them according to the markings (A and B) on the propellers and motor arms. Ensure they are securely fastened.

4. Remote Control Setup

Insert your mobile device into the remote control holder. Ensure the remote control is fully charged.



The remote control unit, featuring digital graphic transmission for extended range and stable picture feed.

5. App Installation and Connection

Download the official SJRC F22s app from your mobile device's app store (iOS 9.0 or later / Android 5.0 or later). Follow the in-app instructions to connect your drone to the app via Wi-Fi.

OPERATING INSTRUCTIONS

Pre-Flight Checklist

- Drone and remote control batteries are fully charged.
- Propellers are securely attached and undamaged.
- Drone arms are fully unfolded and locked.
- Flight environment is safe and clear of obstacles.
- GPS signal is strong (indicated by the app).

Takeoff and Landing

1. Place the drone on a flat, open surface.
2. Power on the drone, then the remote control.
3. Calibrate the drone as per app instructions (compass, gyroscope).
4. Wait for sufficient GPS satellites to be acquired (usually 7+).
5. Use the one-key takeoff button on the remote or in the app, or manually initiate takeoff using the control sticks.
6. For landing, use the one-key landing button or gently lower the drone using the control sticks.

Intelligent Flight Modes

- **GPS Intelligent Following:** The drone will automatically follow your GPS-enabled mobile device.
- **Image Following:** Identify an object in the app, and the drone will automatically follow its movement.
- **Gesture Shooting and Recognition:** Within 1-3 meters of the aircraft, make specific hand gestures for photo or video capture.
- **Multi-point Route Planning Flight:** Plan a flight path by setting multiple waypoints on the map in the app. The drone will fly autonomously along the preset route.
- **Fixed Point Surround:** Select a central point on the map, and the drone will orbit around it at a specified radius.
- **Aircraft Retrieval Function:** If the drone loses signal or is lost, click the GPS signal icon three consecutive times in the app to open the map interface, which will show the last known distance and location of the aircraft.

Camera Operation

The drone is equipped with a Real 4K EIS Camera with a FOV of 100°.

- **Photo Resolution:** 3840*2160P (phone) / 3840*2160P (SD card)
- **Video Resolution:** 1280*720P (phone) / 3840*2160P (SD card)
- **Frame Rate:** 30fps
- **Formats:** JPG for photos, MP4 for videos.
- Control camera functions (photo/video) via the remote control or the mobile app.

Laser Obstacle Avoidance

The SJRC F22s features intelligent laser obstacle avoidance to enhance flight safety, especially in complex environments or at night.

F22s

『 REPEATER + DIGITAL GRAPHIC TRANSMISSION 』

The picture is farther and more stable!



The drone's intelligent laser obstacle avoidance system, designed to escort your flight safely.

| Aerial camera parameters

WIFI frequency.

Camera memory.

Digital picture transmission + repeater

32G-128G (memory card supports Class10/U1 or above)

Photo resolution.

Transmission frame rate.

3840*2160P(手机) / 3840*2160P(SD卡)

30FPS

Video resolution

Camera viewing angle

1280*720P(手机) / 3840*2160P(SD卡)

110°

1073291314

| Flight information

Flight duration.

Picture transmission distance.

About 35 minutes.

About 3500 meters.

Charging time.

Battery capacity.

About 4.5 hours.

11.1V 3500mAh.

Remote control distance

Operating frequency

About 3500 meters

2.4GHz

Illustrations of the drone avoiding obstacles in a corridor, following a subject, and avoiding obstacles during night flight.

Bottom Highlight Searchlight

For enhanced visibility and safety during night flights, the drone is equipped with a bottom searchlight.

F22s

『 SIZE DISPLAY 』

[Unfold dimension]



The drone's bottom highlight searchlight, providing increased security for night operations.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using liquids or solvents.
- **Propeller Replacement:** Inspect propellers regularly for cracks or damage. Replace damaged propellers immediately using the provided screwdriver and spare propellers. Ensure correct A/B propeller placement.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully charged or completely depleted batteries for extended periods. Charge them to about 50-60% for long-term storage.
- **Storage:** When not in use, fold the drone and store it in its carrying case to protect it from dust and physical damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on.	Low battery; Battery not properly inserted.	Charge drone battery; Reinsert battery securely.
No image transmission to phone.	Wi-Fi not connected; App not open; Signal interference.	Ensure drone Wi-Fi is connected to phone; Open the app; Fly in an area with less interference.
Drone drifts during flight.	Improper calibration; Strong winds.	Recalibrate the drone (compass, gyroscope); Avoid flying in strong winds.
GPS signal weak or unavailable.	Flying indoors; Obstructions (buildings, trees).	Fly in an open outdoor area; Wait for more satellites to connect.
Remote control not connecting.	Low battery; Not paired correctly.	Charge remote control; Follow pairing instructions in the app/manual.

SPECIFICATIONS

Brand	GEPAS
Model Name	SJRC F22s
Special Feature	Laser Obstacle Avoidance
Color	Silvery Grey
Material	Plastic
Item Weight	585g (2.2 Kilograms / 4.84 pounds)
Product Dimensions (Unfolded)	350mm x 350mm x 80mm (15"L x 6"W x 15"H)
Product Dimensions (Folded)	210mm x 95mm x 80mm
Operating Frequency	2.4G + Digital Image Transfer Bridge
Control Distance	3500m (Outdoor and unobstructed)
Wifi Image Transmission Distance	3500m (Outdoor and unobstructed)
Flight Time	About 30-35 min
Drone Battery	11.1V 3500mAh Lithium Ion
Drone Charging Time	About 4.5 hours (5V/3A USB)
Remote Control Charging Time	About 2 hours
Remote Control Operating Time	About 2 hours
Camera	2-Axis Electronic Stabilization Gimbal Real 4K Camera
Camera Lens FOV	100°
Photo Resolution	3840*2160P (phone) / 3840*2160P (SD card)

Video Resolution	1280*720P (phone) / 3840*2160P (SD card)
Frame Rate	30fps
Photo Format	JPG
Video Format	MP4
Gimbal Mechanical Range (Tilt)	-35° to +35°
Gimbal Mechanical Range (Roll)	-100° to +70°
Adjustable Angle	-80° to +0°
Gesture Shooting Distance	1-3 M
Image Recognition Follow Me Distance	3-10M
GPS Follow Me Distance	10-100M
SD Card Support	32G-128G (optional, Class10/U1 or above)
Mobile Device System Version	iOS 9.0 or later / Android 5.0 or later
Skill Level	Intermediate
UPC	762704530770

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact GEPAS customer service through the retailer where you purchased the product or refer to the official GEPAS website for contact details.

Please retain your proof of purchase for warranty claims.