

Parrot PF750001

Parrot Disco FPV Drone Instruction Manual

Model: PF750001

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1. PRODUCT OVERVIEW

The Parrot Disco FPV is a fixed-wing drone designed for an immersive flight experience. It combines high-speed capabilities with user-friendly controls, making it suitable for both enthusiasts and those new to fixed-wing drones. The package includes the drone, Parrot Skycontroller 2, and FPV goggles for first-person viewing.

Key Features:

- Fixed-wing design capable of speeds up to 50 mph.
- Ultra-precise piloting and extended flight range of up to 1.2 miles with Parrot Skycontroller 2.
- Immersive First-Person View (FPV) experience with Parrot Cockpitglasses.
- Integrated wide-angle camera for Full HD 1080P videos and 14Mpx photos (RAW, JPEG, DNG formats).
- High-capacity 2700mAh battery providing up to 45 minutes of flight time.
- Easy flight with automatic take-off and landing, assisted piloting controls, anti-stall system, and Return Home functionality.
- Cockpitglasses compatible with smartphones measuring 4.7 - 5.2 inches (12 - 13 cm).



Figure 1: Front view of the Parrot Disco FPV Drone.

2. SETUP AND ASSEMBLY

2.1 Unboxing and Package Contents

Carefully unpack all components from the box. Ensure all items listed in the user manual are present. The main components include the Parrot Disco FPV drone, Skycontroller 2, FPV Cockpitglasses, battery, charger, and spare propellers.



Figure 2: Parrot Disco FPV Drone packaging and included accessories.

2.2 Battery Charging

Before first use, fully charge the drone's 2700mAh battery and the Skycontroller 2. Use the provided charger and ensure proper connection. The charging indicator will show when charging is complete.

2.3 Drone Assembly

Attach the wings to the main body of the drone. Ensure they click securely into place. The fixed-wing design allows for quick and easy assembly and disassembly for transport.

2.4 Controller and Goggles Setup

Power on the Skycontroller 2. Insert your compatible smartphone (4.7 - 5.2 inches) into the Parrot Cockpitglasses. Follow the on-screen instructions in the Free Flight Pro app to connect the controller and goggles to the drone.

3. OPERATING INSTRUCTIONS

3.1 Take-off and Landing

The Parrot Disco FPV features automatic take-off and landing. To launch, hold the drone and press the take-off button on the Skycontroller 2. The drone will automatically ascend and begin circling. For landing, activate the automatic landing sequence, and the drone will glide down to a safe landing area.

3.2 Flight Controls

Utilize the Parrot Skycontroller 2 for precise flight control. The drone offers assisted piloting controls for stability and ease of use. An anti-stall system helps prevent loss of control during flight. The Return Home function allows the drone to automatically return to its take-off point.



Figure 3: Parrot Disco FPV Drone in flight over a natural landscape.

3.3 Camera Operation

The integrated wide-angle camera captures Full HD 1080P videos and 14Mpx photos. You can switch between video and photo modes and adjust settings via the Free Flight Pro app on your smartphone. Footage can be saved in RAW, JPEG, and DNG formats.

3.4 Flight Performance

The Disco FPV can reach speeds of up to 50 mph and offers a flight range of up to 1.2 miles. Its fixed-wing design provides efficient flight, contributing to the extended 45-minute battery life. While designed for stability, strong winds can affect flight performance. Always check local weather conditions before flying.

3.5 General Fixed-Wing Flight Demonstration (Similar Products)

The following videos demonstrate general flight characteristics and features of fixed-wing RC planes, which may be similar to the Parrot Disco FPV. Please note these videos are not specifically for the Parrot Disco FPV model.

Video 1: Flight demonstration of a fixed-wing RC plane (E42 Delta Wing). This video showcases general flight maneuvers and stability typical of fixed-wing aircraft.

Video 2: Unboxing and scene video for a VOLANTEXRC Ranger600 RC plane. This video provides insight into the components and basic operation of a similar fixed-wing model.

Video 3: Flight demonstration of a VOLANTEXRC Ranger600 RC plane. This video highlights various flight capabilities and features of a similar fixed-wing model.

4. MAINTENANCE

4.1 Battery Care

To prolong battery life, always fully charge the battery before storage and avoid completely draining it during use. Store batteries in a cool, dry place away from direct sunlight.

4.2 Propeller Inspection and Replacement

Regularly inspect propellers for any signs of damage (cracks, bends, chips). Damaged propellers can affect flight stability and safety. Replace them immediately with genuine Parrot spare parts. The package includes backup propellers for convenience.

4.3 General Cleaning

Clean the drone's body and camera lens with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials that could damage the surface or optical components.

5. TROUBLESHOOTING

5.1 Connection Issues

If the drone fails to connect to the Skycontroller 2 or Cockpitglasses, ensure all devices are fully charged and within range. Restarting both the drone and controller can often resolve connectivity problems. Check the Free Flight Pro app for any error messages or connection guides.

5.2 Unstable Flight

If the drone exhibits unstable flight, check for damaged propellers or debris in the motors. Ensure the drone's firmware is up to date via the Free Flight Pro app. Avoid flying in strong winds that exceed the drone's recommended wind resistance.

5.3 Landing Difficulties

For optimal automatic landing, ensure a clear, flat area. If manual landing is preferred, practice in open spaces to familiarize yourself with the controls. High grass or uneven terrain can sometimes affect landing smoothness.

6. SPECIFICATIONS

Feature	Detail
Brand	Parrot
Model Name	Parrot Disco w/Skycontroller 2 & FPV
Model Number	PF750001
Item Weight	4 Pounds

Product Dimensions	45.2"L x 4.7"W x 22.8"H
Max Flight Time	Up to 45 minutes
Max Speed	Up to 50 mph
Max Range	Up to 1.2 miles
Video Capture Resolution	1080p Full HD
Effective Still Resolution	14 MP
Supported Image Format	DNG, JPEG
Battery Capacity	2700 Milliamp Hours
Connectivity Technology	Wi-Fi
Control Type	Remote Control
Smartphone Compatibility (Cockpitglasses)	4.7 - 5.2 inches / 12 - 13 cm

7. WARRANTY & SUPPORT

For detailed warranty information and technical support, please refer to the official Parrot website or contact their customer service directly. Keep your proof of purchase for any warranty claims.