DJI DJIFPVGIMBCAM

DJI FPV Gimbal Camera User Manual

Model: DJIFPVGIMBCAM
Brand: DJI

1. Product Overview

The DJI FPV Gimbal Camera is an essential component designed for the DJI FPV drone system, providing high-quality imaging capabilities. This camera integrates a gimbal for stabilization, ensuring smooth and stable footage during flight. It is engineered to capture dynamic aerial perspectives with precision and clarity.



Figure 1: Front view of the DJI FPV Gimbal Camera. This image displays the camera lens and the integrated gimbal structure, highlighting its compact design and robust build.

2. Key Features

- **Ultra Wide-Angle Lens:** Features a 150-degree ultra wide-angle lens, providing an expansive field of view for immersive aerial capture.
- **Versatile Shooting Modes:** Offers three distinct shooting modes, allowing pilots to adapt camera settings for various scenarios.
- **Adjustable Display Settings:** Brightness and saturation can be adjusted directly on the display to optimize visual output.

- **Enhanced Image Quality:** Standard mode minimizes color loss and retains greater detail in captured scenes, significantly improving image quality, especially in daylight conditions.
- **Advanced Specifications:** Equipped with a 1/2.3" CMOS sensor, 12M pixels, f/2.86 aperture, and a broad ISO range of 100-3200. Supports 4K video resolution at 50/60p and Full HD at various frame rates.



Figure 2: Side view of the DJI FPV Gimbal Camera. This perspective highlights the compact profile of the camera and gimbal assembly, with a visible '4K 60P' marking indicating its video recording capabilities.

3. Package Contents

Upon opening the package, verify that all components are present and in good condition. The standard package for the DJI FPV Gimbal Camera includes:

- DJI FPV Gimbal Camera (1)
- Mounting Hardware (e.g., screws, dampeners - *may vary based on specific kit*)

4. Setup Guide

Proper installation of the DJI FPV Gimbal Camera is crucial for optimal performance and flight safety. Follow these general steps for setup. For detailed, drone-specific installation instructions, refer to your DJI FPV drone's official user manual.

1. **Power Off Drone:** Ensure your DJI FPV drone is powered off and its battery is disconnected before beginning installation.
2. **Locate Mounting Point:** Identify the designated gimbal mounting area on the drone's frame.
3. **Attach Gimbal:** Carefully align the gimbal camera with the mounting points. Secure it using the provided screws or clips, ensuring a firm and stable connection. Avoid overtightening.
4. **Connect Cables:** Connect the camera's data and power cables to the corresponding ports on the drone's flight controller or designated connection hub. Ensure all connections are secure and correctly oriented.
5. **Inspect Installation:** After installation, gently check the gimbal for any looseness or obstruction. Ensure the camera can move freely within its intended range of motion.

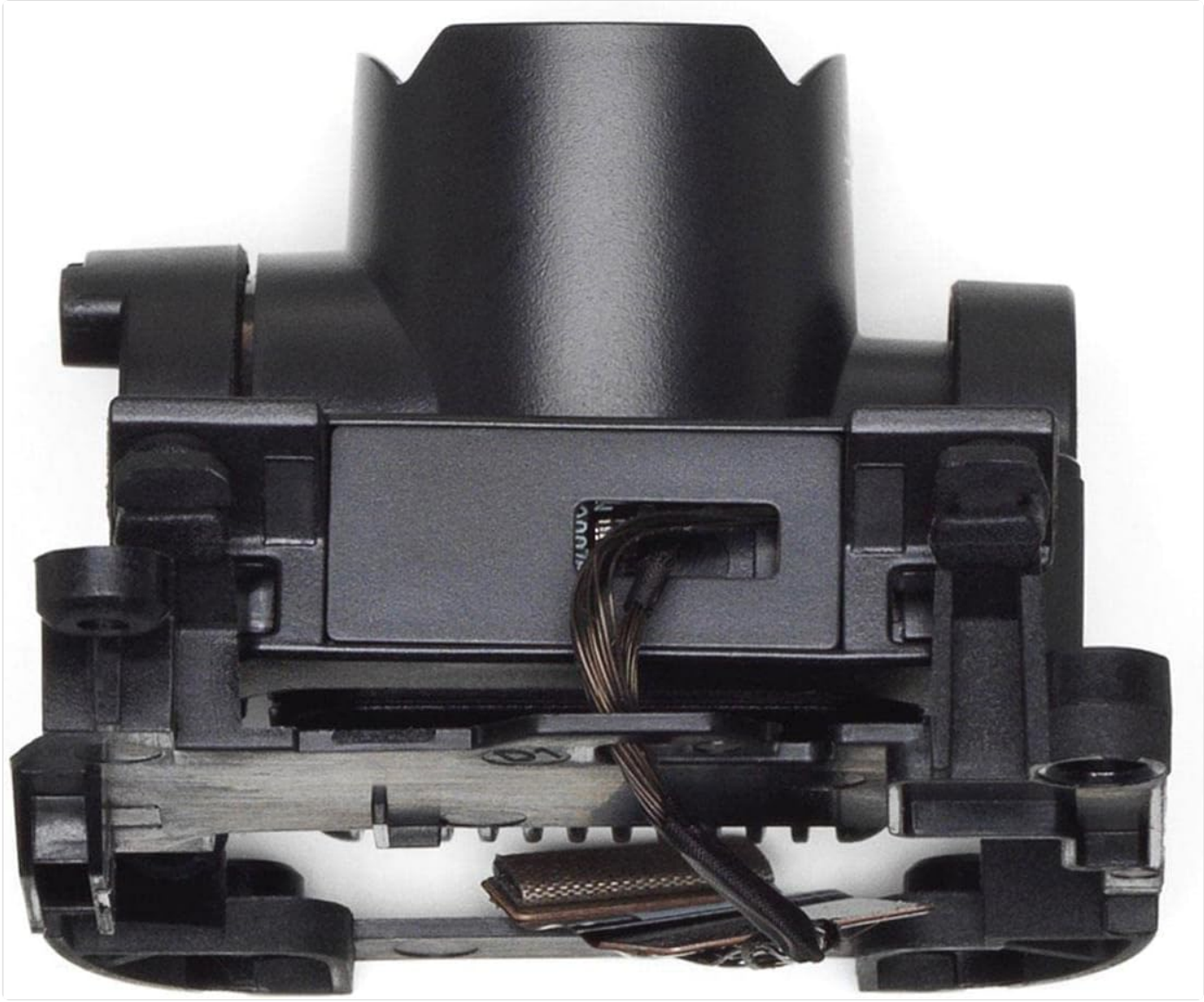


Figure 3: Top view of the DJI FPV Gimbal Camera. This image provides a clear view of the camera's top housing and the cable connections, which are vital for integrating the camera with the drone's system.

5. Operating Instructions

Once the DJI FPV Gimbal Camera is successfully installed and connected to your drone, its operation is primarily controlled through the DJI FPV remote controller and goggles. Refer to your drone's comprehensive user manual for specific button functions and menu navigation.

- **Power On:** Power on the drone, remote controller, and goggles in the recommended sequence. The camera will initialize and perform a self-calibration.
- **Live View:** The camera's live feed will be displayed in your FPV goggles, providing a real-time view from the drone.
- **Gimbal Control:** Use the gimbal control dial or joystick on your remote controller to adjust the camera's tilt angle during flight.
- **Recording:** Press the designated record button on your remote controller to start or stop video recording. Ensure a compatible microSD card is inserted into the drone's slot (if applicable for camera data storage).
- **Camera Settings:** Access camera settings through the goggles' menu system. Here you can switch between shooting modes (e.g., Standard, Normal), adjust brightness, saturation, and other parameters as detailed in the 'Key Features' section.

6. Maintenance and Care

To ensure the longevity and optimal performance of your DJI FPV Gimbal Camera, adhere to the following maintenance guidelines:

- **Lens Cleaning:** Gently clean the camera lens with a soft, lint-free cloth specifically designed for optical surfaces. Use a lens cleaning solution if necessary, applying it to the cloth, not directly to the lens.
- **Gimbal Protection:** Always use the gimbal protector (if provided) when transporting or storing the drone to prevent damage to the delicate gimbal mechanism.
- **Avoid Impact:** Protect the camera and gimbal from physical impacts, as these can cause misalignment or internal damage.
- **Storage:** Store the camera in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Periodically inspect all connecting cables for signs of wear, fraying, or damage. Replace damaged cables immediately.

7. Troubleshooting Common Issues

If you encounter issues with your DJI FPV Gimbal Camera, consult the following common troubleshooting steps:

- **No Live Video Feed:**
  - Ensure all camera cables are securely connected to the drone.
  - Verify that the drone, remote controller, and goggles are all powered on and properly linked.
  - Check for any firmware updates for the drone or camera.
- **Shaky or Unstable Footage:**
  - Ensure the gimbal is not obstructed and can move freely.
  - Check for any physical damage to the gimbal or dampeners.
  - Perform a gimbal calibration through the DJI Fly app or drone settings.
- **Poor Image Quality:**
  - Clean the camera lens thoroughly.
  - Adjust camera settings (e.g., exposure, ISO, white balance) to suit lighting conditions.
  - Ensure you are using the appropriate shooting mode for your environment.
- **Camera Not Responding:**
  - Restart the drone and all connected devices.
  - Check for any error messages in the goggles or DJI Fly app.
  - If the issue persists, contact DJI customer support.

8. Technical Specifications

Attribute	Value
Product Dimensions	5.91 x 3.94 x 7.87 inches

Attribute	Value
Item Weight	1.76 ounces
ASIN	B07FSYKGTH
Item Model Number	DJIFPVGIMBCAM
Date First Available	March 2, 2021
Manufacturer	DJI
Photo Sensor Technology	CMOS
Video Capture Resolution	4K
Maximum Aperture	f/2.86 (from feature bullets, not 5 f from specs)
Flash Memory Type	SDXC
Video Capture Format	MP4/MOV MPEG-4 AVC/H.264, HEVC/H.265
Supported Audio Format	AAC, PCM
Connectivity Technology	Bluetooth, USB, WLAN
Color	Gray
Camcorder Type	Video Camera

9. Warranty and Customer Support

For detailed information regarding the warranty policy for your DJI FPV Gimbal Camera, please refer to the official DJI website or the warranty card included with your product. Warranty terms and conditions may vary by region and product. Should you require technical assistance, troubleshooting beyond this manual, or repair services, please contact DJI Customer Support through their official channels. You can typically find support contact information, FAQs, and service center locations on the official DJI support website: www.dji.com/support

© 2024 DJI. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question