FeiyuTech AK2000C

FeiyuTech AK2000C Gimbal Stabilizer User Manual

Model: AK2000C | Brand: FeiyuTech

1. Introduction

The FeiyuTech AK2000C is a versatile 3-axis handheld gimbal stabilizer designed for DSLR and mirrorless cameras. It offers advanced stabilization features, an intuitive OLED touchscreen, and robust construction to help photographers and videographers capture smooth, professional-grade footage. This manual provides essential information for setup, operation, and maintenance of your AK2000C gimbal.

Key features include a new foldable quick release plate for convenient storage, a maximum payload of 4.85 lbs (2.2 kg) for compatibility with popular mirrorless cameras, and auto-adapt motor power for various camera and lens setups.

2. Product Overview and Components

The AK2000C comes with several components to enhance its functionality and ease of use. Familiarize yourself with each part before beginning setup.



Figure 1: FeiyuTech AK2000C Gimbal and Included Accessories. This image displays the main gimbal unit, various control cables, a mini tripod, a lens holder, and a wrench, all neatly organized in their packaging.

Key Components:

- **Gimbal Body:** The main stabilization unit with integrated controls and display.
- **Mini Tripod:** Attaches to the base for stable placement or as an extended grip.
- **Quick Release Plate:** For quick and secure camera mounting.
- **Control Cables:** Various cables for connecting to different camera models (Type-C, TRS2.5, Multi, Micro).
- **USB Charging Cable:** For charging the gimbal's internal battery.
- **Lens Holder:** Provides additional support for longer lenses.
- **Hexagon Wrench:** For tightening screws and adjustments.

3. Setup and Balancing

Proper balancing is crucial for optimal gimbal performance and to prevent motor strain. Follow these steps carefully.

3.1 Attaching the Mini Tripod

Screw the mini tripod into the 1/4-inch thread at the bottom of the gimbal handle. Ensure it is tightened securely for stability.

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Video 1: How to balance the gimbal-AK2000C. This official seller video demonstrates the complete balancing process for the FeiyuTech AK2000C gimbal, including attaching the tripod and adjusting each axis.

3.2 Installing the Camera

1. Loosen the quick release plate safety lock on the gimbal.
2. Pull out the quick release plate and rotate it 90 degrees. Tighten it back into place.
3. Attach the ARCA quick release plate to the bottom of your camera using a hexagon wrench or a coin.
4. Loosen the quick release plate safety lock on the gimbal again.
5. Slide the camera with the attached quick release plate onto the gimbal until it is balanced. Tighten the safety lock.
6. Mount the lens holder (if needed) to provide additional support for your camera lens.



Figure 2: Magic Foldable Quick Release Plate and Three-Axis Lock. This image highlights the innovative quick release plate design and the three-axis lock mechanism for secure camera mounting and storage.

3.3 Balancing the Gimbal (Crucial Step)

Before powering on the gimbal, ensure all three axes (tilt, roll, pan) are perfectly balanced. This prevents motor overload and ensures smooth operation.

1. **Tilt Axis Balance:** Unlock the tilt axis. Point the camera lens upwards. If the camera drops, adjust the sliding arm in the opposite direction until the lens stays stable pointing upwards. Lock the sliding arm.
2. **Roll Axis Balance:** Unlock the roll axis. If the camera tilts to one side, loosen the cross arm lock and slide the cross arm in the opposite direction until the camera is balanced horizontally. Lock the cross arm.
3. **Pan Axis Balance:** Unlock the pan axis. Hold the gimbal horizontally. If the camera rotates, loosen the vertical arm lock and slide the vertical arm until the camera remains stable at any horizontal angle. Lock the vertical arm.

Important: Always balance the gimbal before powering it on to prevent damage to the motors.

4. Operating the Gimbal

4.1 Powering On/Off

Long press the power button located on the side of the gimbal handle to power it on or off.

4.2 Understanding Working Modes

The AK2000C offers various working modes accessible via the OLED touchscreen. Single tap the mode button or tap the corresponding icon on the screen to switch modes.

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Video 2: Working mode introduction-AK2000C. This official seller video provides a detailed explanation of the different working modes available on the FeiyuTech AK2000C gimbal and how to switch between them.

- **Pan Mode (Default):** Lens follows handle's left-right movement. Other directions remain fixed.
- **Lock Mode:** Lens orientation is fixed.
- **Follow Mode:** All three axes (pan, tilt, roll) follow the handle's movement.
- **Selfie Mode:** Gimbal enters selfie mode, flipping the camera around for vlogging.
- **Inception Mode:** Allows for 360-degree barrel rolls.

4.3 Controls and Adjustments

The OLED touchscreen allows direct control of various settings without relying on a mobile app. Use the joystick for precise camera movement.



Figure 3: OLED Touch Screen and Ergonomic Grip. The image shows the intuitive OLED touch screen for easy operation and the luxurious rosewood pattern grip for comfortable handling.

- **OLED Touchscreen:** Navigate menus, select modes, and adjust parameters.
- **Joystick:** Control pan and tilt movements of the camera.
- **Trigger Button:** Double-tap to re-center the gimbal; triple-tap for selfie mode.
- **Motor Power Adjustment:** Auto-adapt motor power or customize settings in the payload menu for different camera weights.

5. Maintenance

To ensure the longevity and optimal performance of your FeiyuTech AK2000C gimbal, regular maintenance is recommended.

- Keep the gimbal clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Store the gimbal in its original foam case when not in use to protect it from impacts and dust.
- Avoid exposing the gimbal to extreme temperatures or moisture.
- Regularly check all screws and locks to ensure they are secure.

6. Troubleshooting

If you encounter issues with your gimbal, try the following troubleshooting steps:

- **Gimbal Vibrates Abnormally:** This usually indicates improper balancing. Re-balance all three axes carefully. You may also need to adjust the motor power settings in the payload menu.
- **Camera Not Stable:** Ensure the camera is securely mounted and all axis locks are disengaged before powering on. Verify proper balancing.
- **Gimbal Not Powering On:** Check the battery level. Ensure the battery is fully charged.
- **Controls Unresponsive:** Ensure the gimbal is properly connected to your camera (if using cable control). Check for firmware updates via the FeiyuTech app.

7. Specifications

Feature	Description
Product Dimensions	5.79 x 7.99 x 13.66 inches
Item Weight	2.3 pounds
Max Payload	4.85 lb / 2.2 kg (well-balanced)
Batteries	1 Lithium Ion battery required (included)
Folded Size	Approximately 12 inches (l) x 4 inches (w) x 3 inches (h)
Manufacturer	FeiyuTech

8. Warranty & Support

FeiyuTech offers comprehensive support for its products.

- **Warranty:** 1-year official warranty for all items.
- **Return Policy:** 30-day return policy.
- **Email Support:** 24H email service for one-stop technical support.
- **User Guide (PDF):** A detailed user guide is available for download: Download User Guide
- **Contact:** For support, email support@feiyu-tech.com.