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> [FeiyuTech Feiyu AK2000 Gimbal 3-Axis Handheld Stabilizer for DSLR/Mirrorless Camera for Sony a9 a7III a7RIII Canon M50 EOS 6D Mark II EOS 200D II Pan - asonic GH4 GH5 Nikon, Payload MAX 6.17lb](#)

FeiyuTech AK2000

FeiyuTech AK2000 Gimbal Instruction Manual

Model: AK2000

Brand: FeiyuTech

INTRODUCTION

This manual provides comprehensive guidance for setting up, operating, and maintaining your FeiyuTech Feiyu AK2000 Gimbal. The 3-Axis Handheld Stabilizer is designed for DSLR/Mirrorless Cameras such as Sony a9, a7III, a7RIII, Canon M50, EOS 6D Mark II, EOS 200D II, Panasonic GH4, GH5, and Nikon, supporting a payload of up to 6.17lb.

Key features include a 2.8KG payload capacity, an intuitive LED touch panel for easy control, a versatile follow focus ring, an innovative elevation axis angle that prevents screen obstruction, and an autorotation mode for pre-set video capture and time-lapse photography.



Figure 1: FeiyuTech AK2000 Gimbal with included accessories.

SETUP AND BALANCING

1. Product Overview and Components

The FeiyuTech AK2000 is a 3-axis gimbal, featuring Tilt, Roll, and Pan axes for smooth camera movements. Before use, ensure all components are present and familiarize yourself with the gimbal's structure.



Figure 2: Main gimbal unit and various accessories.

2. Camera Installation

Proper camera installation is crucial for optimal gimbal performance. Begin by mounting the tripod to the bottom of the gimbal for stability. Unlock the roll axis and adjust the cross arm to a balanced status, then lock it. Unlock the tilt axis, adjust it to the balancing position, and lock it. Loosen the quick release plate safety lock, pull it out, rotate 90 degrees, and tighten it. Attach the ARCA quick release plate to the bottom of your camera

using a hexagon wrench or coin. Loosen the ARCA quick release plate safety lock on the gimbal, mount the camera, and tighten the safety lock. Finally, mount the lens holder to finish the installation.

Video 1: Detailed guide on camera installation and gimbal balancing.

Multi-functional "Magic Ring" brings unlimited creation possibilities

The diagram illustrates the functions of a multi-functional "Magic Ring" on a gimbal. It features four icons on the left, each corresponding to a function:

- Control the zoom of camera:** Represented by a square icon with a central dot and four corner brackets.
- control the follow focus of camera:** Represented by a square icon with a magnifying glass over a plus sign and four corner brackets.
- precisely control the pan-tilt three axes:** Represented by a target icon with a central dot and four corner brackets.
- Fuction mode control:** Represented by four small squares arranged in a 2x2 grid, with a gear icon in the bottom right corner.

On the right, a vertical view of the gimbal shows the "Magic Ring" (a dark blue ring) being rotated, indicated by blue curved arrows. The ring is positioned over a control panel that includes a screen with icons for Wi-Fi, Bluetooth, battery, LK (Lock), camera, zoom, and a return icon, and a central joystick with directional buttons.

Figure 3: Camera mounted on the gimbal, ready for balancing.

3. Gimbal Balancing

Balancing the gimbal is essential to prevent motor damage and ensure smooth footage. Always balance the gimbal before powering it on. The process involves balancing the tilt, roll, and pan axes.

- **Balance the Tilt Axis:** Unlock the tilt axis. Turn the camera lens upward, let go, and observe the dropping direction. If it deviates, loosen the sliding arm lock screw and slide the arm in the opposite direction until the camera lens stays upwards stably. Then tighten the screw.
- **Balance the Roll Axis:** Unlock the roll axis. Let go and observe the dropping direction. If it deviates,

loosen the cross arm lock and slide the cross arm until the camera is balanced. Then tighten the screw.

- **Balance the Pan Axis:** Unlock the pan axis. Hold the gimbal horizontally, let go, and observe the dropping direction. If it deviates, loosen the vertical arm lock screw and slide the vertical arm until the camera is balanced. Then tighten the screw.

After every time you change your camera or lens, please check all 3 axes again and rebalance it. A well-balanced gimbal will allow the camera to stay stable at any angle after the balance succeeds.

"Spiritual Window" touch panel



Figure 4: Precise adjustments are key for perfect balance.

OPERATING MODES

1. Powering On/Off

To power on the gimbal, long press the power button. The gimbal will initialize and stabilize the camera. To

power off, long press the power button again.

2. Working Modes Introduction

The AK2000 offers various working modes for different shooting scenarios. You can switch between modes by single-tapping the mode button or tapping the corresponding icon on the touch screen. Double-tap the mode button or tap the icon to enter Pan&Tilt Mode. Triple-tap the mode button or tap the icon to enter All Follow Mode.

- **Pan Mode (Default):** The lens follows the handle's left-right movement, while other directions remain still.
- **Lock Mode:** The lens's orientation is fixed, regardless of handle movement.
- **Pan&Tilt Mode:** The pan axis and tilt axis follow the handle's movement, while the roll axis remains still.
- **All Follow Mode:** All three axes (pan, tilt, and roll) follow the handle's movement.

Video 2: Introduction to the various working modes of the gimbal.

1/4 inch threaded hole



Figure 5: The intuitive touch panel for mode selection and settings.

3. Advanced Features

The AK2000 offers advanced features accessible via the touch panel or trigger button:

- **Magic Ring:** Allows control of follow focus, zoom, and precise control of the pan-tilt three axes.
- **Inception Mode:** For dynamic rotating shots.
- **Motion Time-lapse:** Set specific paths for time-lapse photography.
- **Selfie Mode:** Quickly reorients the gimbal for self-recording.

WiFi + Bluetooth dual module connection



Figure 6: The 'Magic Ring' for versatile control.

Touch-control operation More Than A Flagship



Payload 2.8KG



LED touch panel



WiFi + Bluetooth dual module connection



Magic Ring



Innovative Optimization Algorithm



USB expansion interface

Figure 7: Overview of touch-control operation and key features.

MAINTENANCE

Cleaning and Storage

To ensure the longevity of your gimbal, regularly clean it with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials. Store the gimbal in its protective case in a cool, dry place away from direct sunlight and extreme temperatures.

Battery Care

Charge the gimbal's batteries fully before first use. For long-term storage, it is recommended to charge the batteries to about 50-60% to maintain battery health. Avoid completely draining the batteries or leaving them fully charged for extended periods.

TROUBLESHOOTING

Common Issues

- **Gimbal Vibration:** If you find the gimbal vibrates abnormally, ensure the camera is properly balanced on all three axes. You can also fix this by setting the motor power in the payload setting and using auto adaptation after powering on.
- **Balancing Difficulties:** Ensure all motor locks are disengaged before attempting to balance. Follow the step-by-step balancing guide for each axis carefully. Small adjustments can make a significant difference.
- **Short Battery Life:** Ensure the gimbal is fully charged. If battery life remains short, consider replacing the batteries or contacting customer support for assistance.

SPECIFICATIONS

Feature	Specification
Product Dimensions	6.94 x 8.62 x 14.8 inches
Item Weight	2.76 pounds (or 2.8 Pounds)
ASIN	B07VCJG53F
Item Model Number	AK2000
Manufacturer	FeiyuTech
Color	Feiyu-AK2000
Compatible Devices	Camera
Maximum Weight Recommendation	6.17 Pounds

WARRANTY AND SUPPORT

FeiyuTech is committed to enhancing product quality and providing excellent customer service.

- **Return Policy:** 30 Days
- **Email Service:** 24H One-Stop Technical Support
- **Official Warranty:** 1 YEAR warranty for ALL items

For technical support or warranty claims, please contact us:

Email: support@feiyu-tech.com



Figure 8: FeiyuTech Warranty & Service details.