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FeiyuTech US-AK2000S

FeiyuTech AK2000S Camera Stabilizer User Manual

Model: US-AK2000S
Brand: FeiyuTech

1. Introduction

The FeiyuTech AK2000S is a handheld 3-axis gimbal designed for DSLR and mirrorless cameras, offering advanced stabilization and control features. It incorporates a high-precision gyroscope and an advanced W6 stable control algorithm to ensure smooth and stable footage. With a maximum payload capacity of 2.2 kg (4.85 lbs), it supports a wide range of mainstream cameras and lenses.
Key features include a unique LCD touch screen for intuitive operation, a detachable versatile arm for flexible shooting angles, and efficient power management with quick charging capabilities.

2. Package Contents

Please verify that all items listed below are included in your package:

- FeiyuTech AK2000S Gimbal
- Anti-slip metal tripod
- Lens supporting frame + fixed screw
- Thumb screw to fix the camera (short)
- Quick release plate
- Versatile arm + tighten screw
- USB Cables (various types for camera control and charging)
- EPP box (carrying case)
- FeiyuTech cloth bag
- Quick Start Guide



Figure 2.1: FeiyuTech AK2000S Gimbal and its complete set of accessories, including the tripod, various connection cables, quick release plate, and the protective carrying case.

3. Setup Guide

3.1 Initial Setup and Balancing

Before powering on the gimbal, ensure your camera is properly mounted and balanced. This is crucial for optimal performance and to prevent motor strain. The AK2000S features three-axis motor locks and an ARCA quick release system for efficient setup.

1. **Mounting the Camera:** Attach your DSLR or mirrorless camera to the quick release plate.
2. **Balancing:** Unlock all three axes. Adjust the camera position on the quick release plate and the gimbal arms until the camera remains stable in any position without motor assistance. Refer to the markings on the gimbal for precise adjustments.
3. **Power On Sequence:** Always turn on the gimbal first, then your camera. When powering off, turn off the camera first, then the gimbal.

3.2 Camera Connection and Control

The AK2000S supports cable connection for controlling various camera functions, including focus, shooting, and video recording. Ensure you use the correct cable for your camera model.

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Video 3.1: Demonstrates connecting the FeiyuTech AK2000S gimbal to a Fujifilm XT3 camera via cable for control over photo and video functions. This video illustrates the steps for connecting the camera, powering on the gimbal, and using the shutter button for focus and recording.

For specific camera models like Fujifilm XT3 and X-H1, direct control is possible without additional menu settings. For other models (X-T30, X-T20, X-A7, X-A5, X-T100), you may need to set the camera menu to "REMOTE" in the "MIC/REMOTE RELEASE" setting. Note that some models may only support focus and photo capture, not video recording, via cable.



Figure 3.1: The AK2000S gimbal setup with a camera and an optional phone bracket, highlighting its compatibility with camera original apps for real-time video preview and control, even for models not explicitly listed in the compatible camera list.

4. Operating Modes and Features

4.1 LCD Touch Screen Operation

The AK2000S features a unique LCD touch screen that allows direct operation and parameter adjustments without needing a separate app. The screen can be locked to prevent accidental touches during use.

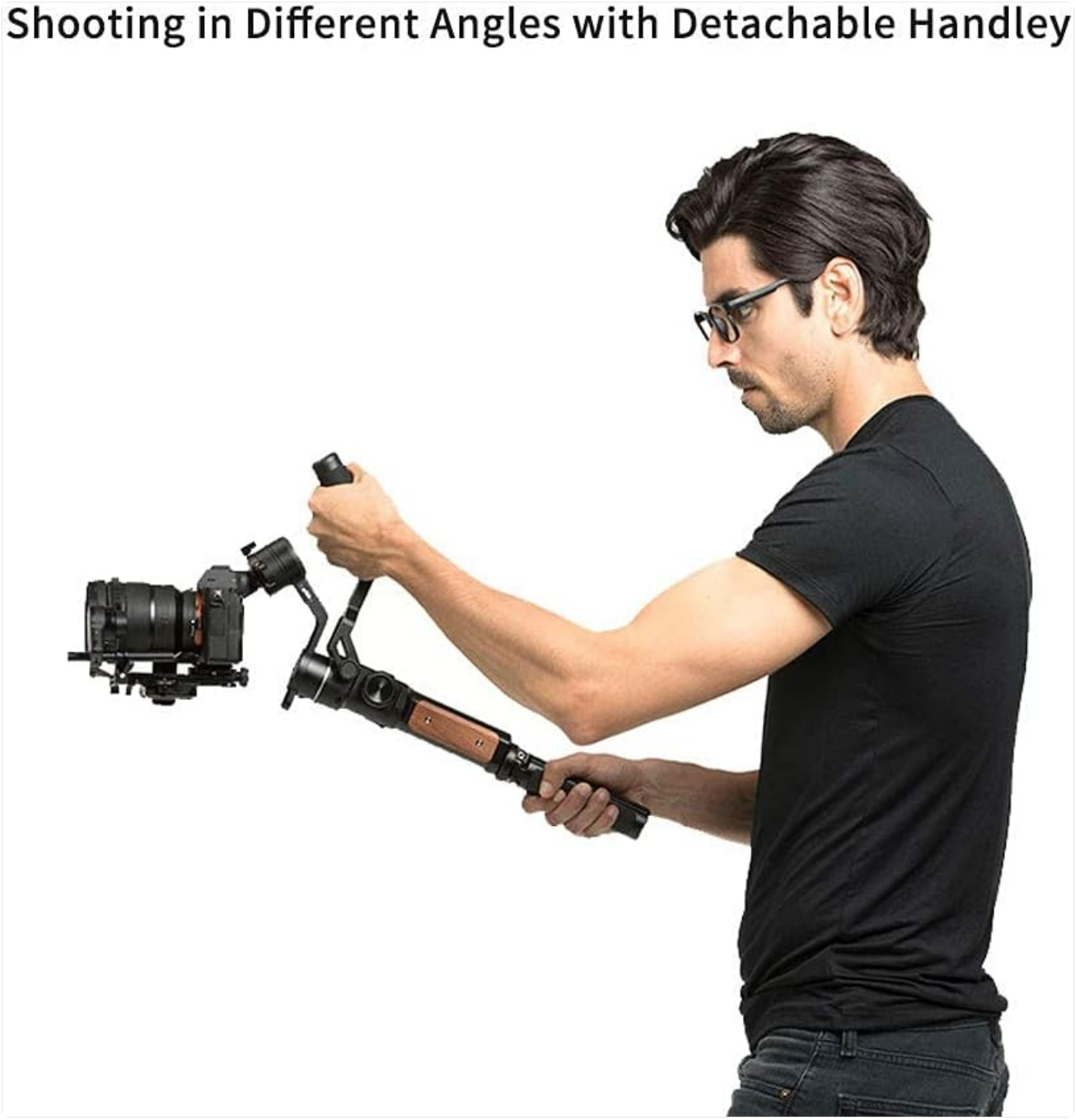


Figure 4.1: A detailed view of the gimbal's LCD touch screen, illustrating its intuitive interface for one-hand operation and direct parameter adjustments.

4.2 Shooting Control and Modes

The gimbal offers various shooting controls and modes to enhance your videography experience:

- **Focus/Shooting/Video Switch:** Control your camera's focus, take photos, or start/stop video recording directly from the gimbal's controls.
- **Detachable Versatile Arm:** Easily switch between single-handle and underslung positions for diverse shooting scenarios, including low-angle shots.
- **Portrait Mode:** Optimized for short video platforms, allowing for vertical video capture.
- **Follow Focus:** Utilize the magic knob for precise follow focus and zooming control (requires compatible camera/lens or optional accessories).

- **Intelligent Time-Lapse:** Create captivating time-lapse and hyperlapse videos with programmable movements.
- **Automatic 360° Rotation:** Achieve smooth, cinematic 360-degree panoramic shots.
- **POV Mode:** Experience immersive point-of-view shots with 360-degree rotation.

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Video 4.1: An overview of the FeiyuTech AK2000S DSLR Camera Gimbal's features, demonstrating its quick setup, comfortable rosewood handle, 2.2KG payload capacity, shooting controls (focus, photo, video), portrait mode, detachable versatile handle for low-angle shooting, follow focus capabilities, intelligent time-lapse, automatic 360° rotation, and POV mode.



Figure 4.2: The gimbal being used in an underslung configuration, showcasing the flexibility provided by its detachable handle for capturing unique perspectives.



1. EPP box*1
2. AK2000S *1
3. Anti-slip metal tripod *1
4. Lens supporting frame + fixed screw *1
5. Thumb screw to fix the camera (short) *1
6. Quick release plate
7. 5D Mark IV USB Cable USB 3.0 to Micro 3.0(A02)*1
8. Sony USB control /camera charging cable: USB2.0 to Micro(A01)*1
9. Canon USB Cable USB 2.0 to Mini(B01)*1
10. Nikon &EOS R USB control/gimbal charging cable: USB 2.0 to Type C(C01)*1
11. Sony USB control cable: Type C to Multi*1
12. Shutter release for Panasonic TYPE C to DC2.5 *1
13. Versatile arm + tighten screw*1 set

Figure 4.3: The AK2000S gimbal configured for portrait mode, ideal for content creation on platforms that utilize vertical video formats.

5. Power and Charging

The AK2000S is equipped with a built-in battery providing approximately 14 hours of working time in normal conditions. It supports 18W quick charging, allowing a full charge within 1.5 hours. It is recommended to use a 5V/3A 18W charger for optimal charging performance.



Figure 5.1: The gimbal's handle displaying the battery charge status, emphasizing its long working duration and rapid charging feature.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the gimbal. Avoid using liquid cleaners or solvents.
- **Storage:** Store the gimbal in its EPP box in a dry, cool place away from direct sunlight. Ensure all axes are locked before storage to prevent damage.
- **Battery Care:** For long-term storage, charge the battery to approximately 50-60% every three months to maintain battery health.
- **Firmware Updates:** Regularly check the official FeiyuTech website for firmware updates to ensure optimal performance and access new features.

7. Troubleshooting

Problem	Possible Cause	Solution
Gimbal vibrates or shakes.	Improper balancing; motors not calibrated.	Re-balance the camera on all axes. Perform motor auto-calibration via the LCD screen.

Problem	Possible Cause	Solution
Camera control not working via cable.	Incorrect cable; camera settings not configured; firmware outdated.	Ensure correct cable is used. Check camera's "MIC/REMOTE RELEASE" settings. Update gimbal firmware.
Gimbal does not power on.	Low battery; power button not pressed correctly.	Charge the gimbal fully. Press and hold the power button for 3 seconds.
Unresponsive touch screen.	Screen locked; temporary software glitch.	Unlock the screen. Restart the gimbal.

8. Specifications

- **Model:** US-AK2000S
- **Payload Capacity:** Up to 2.2 kg (4.85 lbs)
- **Net Weight:** 1.2 kg (2.64 lbs) (excluding battery, cables, camera, lens)
- **Dimensions:** 6.25"D x 8"W x 14.68"H (Product)
- **Folded Size:** 8.22" x 2.80" x 13.80"
- **Battery Life:** Up to 14 hours (normal working state), 7 hours (normal working state), 14 hours (standby mode)
- **Charging Time:** Approximately 1.5 hours with 18W quick charge
- **Materials:** Aluminum Alloys + Rosewood
- **Axis Rotation Range:** Pan/Roll/Tilt: 360° (Unlimited) / 360° (Unlimited) / 230° (with limitation)
- **Quick Release Plate:** ARCA compatible
- **Extended Ports:** 1/4" thread hole (top of sliding arm), Camera1 USB-C, Camera2 USB, UART1, UART2, 1/4" inch thread hole (sides), 1/4" & 3/8" inch thread hole (bottom), USB-C (charging & firmware update)
- **Compatible Cameras:** Sony A9 series, A7 series, A6300/A6400; Canon EOS R, M50, M6; Panasonic GH4, GH5/GH5S, GX9, GF9; Nikon Z6, Z7; Fujifilm XT3/XT2, X-T20, X-T30, XH-1. (Refer to official compatibility list for full details).



Figure 8.1: The AK2000S demonstrating its quick response speed, capable of starting in 2 seconds and warm starting in 1 second from sleep mode.

9. Warranty and Support

FeiyuTech offers comprehensive support for its products:

- **Return Policy:** 30 Days Return Policy.
- **Technical Support:** 24H Email Service for one-stop technical support.
- **Official Warranty:** 1 YEAR warranty for all items.
- **Contact:** For support inquiries, please email support@feiyu-tech.com.
- **User Manual (PDF):** For a detailed user manual, please refer to the official PDF document: User Manual (PDF).
- **Installation Manual (PDF):** For installation instructions, please refer to the official PDF document: Installation Manual (PDF).

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