FeiyuTech SCORP-C2

FeiyuTech SCORP-C2 Gimbal Stabilizer User Manual

Model: SCORP-C2

1. INTRODUCTION

The FeiyuTech SCORP-C2 is a professional 3-axis gimbal stabilizer designed for DSLR and mirrorless cameras. It features an integrated AI tracking module, a high payload capacity, and intuitive controls to enhance your videography experience. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance of your device.

Image 1.1: FeiyuTech SCORP-C2 Gimbal Stabilizer with a camera and remote control.
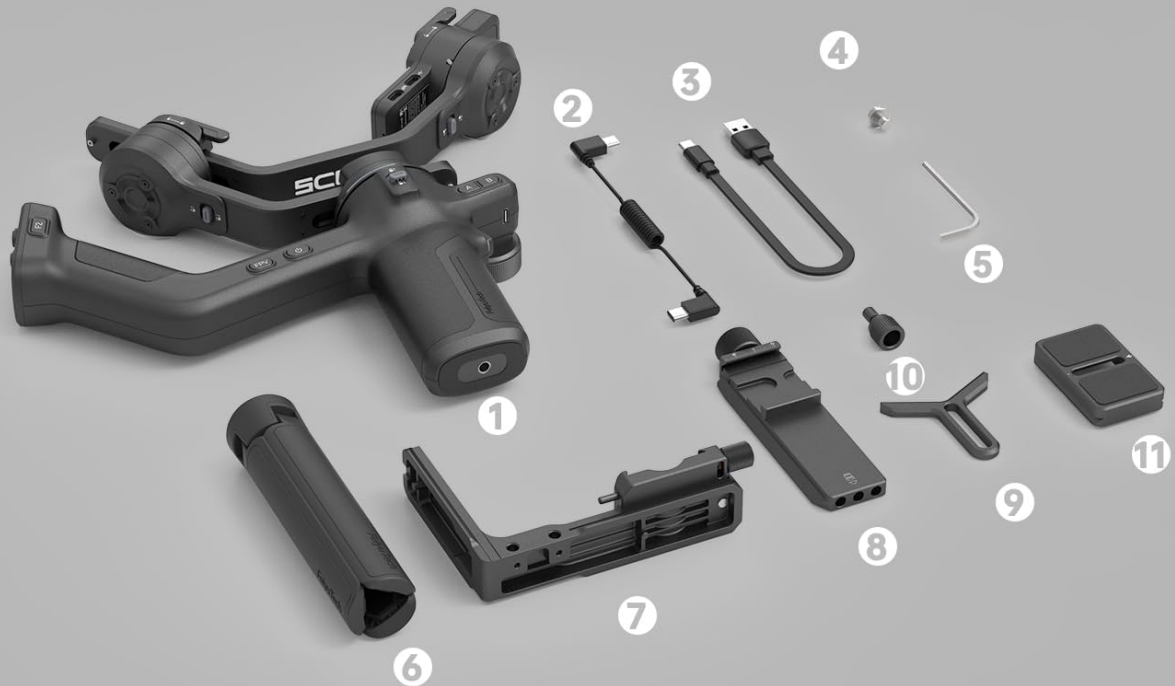
2. WHAT'S IN THE BOX

Carefully unpack your FeiyuTech SCORP-C2 and verify that all items listed below are present:

- Feiyu Scorp-C2 Gimbal (Main body)
- Slider
- Upper Quick Release Plate
- L-Bracket Base (Horizontal Mount Plate)

- Lens Support Screw

- Lens Support Bracket

- Camera Mounting Screw

- Hex Key

- Tripod

- USB-C to Type-C Camera Control Cable

- USB-C Gimbal Charging Cable

Packing List

1. Main body
2. USB-C to Type-C
   camera control cable

3. USB-C charging cable
4. Camera fixed screw
5. Allen key

6. Tripod
7. Quick release plate
8. Slider
9. Lens holder
10. Camera fixed screw
11. Upper quick release plate

Image 2.1: Detailed packing list of the FeiyuTech SCORP-C2 Gimbal Stabilizer and its accessories.

3. SETUP

3.1. Charging the Gimbal

Before first use, fully charge the gimbal battery. Connect the USB-C Gimbal Charging Cable to the gimbal's charging port

and a USB power adapter (not included). The charging indicator will show the charging status.

3.2. Attaching the Tripod

Screw the included tripod onto the 1/4-inch thread at the bottom of the gimbal handle. Ensure it is securely fastened to provide a stable base for setup and balancing.

3.3. Mounting the Camera

1. Attach the Upper Quick Release Plate to the bottom of your camera using the Camera Mounting Screw.
2. Slide the camera with the attached quick release plate onto the Slider.
3. Secure the Slider to the gimbal's L-Bracket Base (Horizontal Mount Plate).
4. If using a long lens, attach the Lens Support Bracket and Lens Support Screw to provide additional stability.

3.4. Balancing the Gimbal

Proper balancing is crucial for optimal performance and to prevent motor strain. The SCORP-C2 features a 3-axis buckle lock design for easier balancing.

Image 3.1: Key design features for balancing and adjustment, including the 3-Axis Buckle Lock Design.

1. **Unlock Axes:** Release all three axis locks (pan, tilt, roll) using the buckle design.
2. **Tilt Axis Balance:** Adjust the camera forward or backward on the quick release plate until the camera remains level when tilted at any angle. Use the Tilt Adjustment Knob for fine-tuning.
3. **Roll Axis Balance:** Adjust the camera left or right on the quick release plate until it remains level horizontally.
4. **Pan Axis Balance:** Hold the gimbal horizontally and adjust the pan arm until the camera remains stable without drifting.

Utilize the 3-Axis Scale Marks for millimeter-level precision leveling, which helps in recalling previous balance settings.

3.5. Powering On/Off

Press and hold the power button to turn the gimbal on or off. Ensure the gimbal is properly balanced before powering on to prevent motor damage.

4. OPERATING THE GIMBAL

4.1. Basic Controls and OLED Display

The SCORP-C2 features an integrated OLED screen and refined controls for intuitive operation.

Button Controls with OLED Status Screen

Image 4.1: Button controls and OLED status screen on the FeiyuTech SCORP-C2.

- **Joystick:** Controls the pan and tilt movement of the camera.
- **Record Button:** Starts and stops video recording.
- **Mode Button (M):** Cycles through different gimbal modes (e.g., Pan Follow, Lock Mode, All Follow).
- **Left/Right Buttons (L/R):** Customizable functions, often used for focus/zoom or specific mode adjustments.
- **Auto Rotation Button (A):** Initiates automatic rotation for specific shooting modes.
- **OLED Screen:** Displays real-time status updates, current mode, battery level, and other settings.

4.2. AI Tracking

The SCORP-C2 includes a built-in AI 4.0 tracking module, eliminating the need for external apps for basic tracking functions. It supports gesture recognition and face tracking from distances up to 59 feet.

Image 4.2: The AI Tracking 4.0 system supports gesture control and face tracking.

To activate AI tracking, refer to the specific instructions in the full user manual for gesture commands or direct activation via the gimbal's controls.

4.3. Native Vertical Shooting

The modular design of the SCORP-C2 allows for quick and easy native vertical shooting without additional accessories.
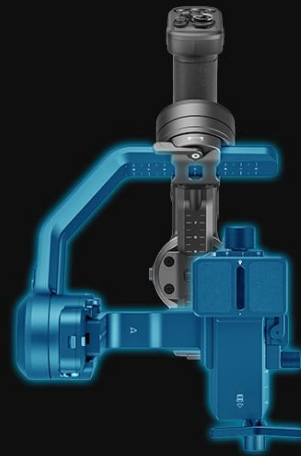
Image 4.3: The gimbal's design facilitates native vertical shooting and offers an upgraded structure for flexible camera positioning.

4.4. Camera Control (Wired or Bluetooth)

Control your camera wirelessly via Bluetooth or through a control cable. This allows you to switch modes, start/stop recording, and adjust settings directly from the gimbal.

Image 4.4: Wireless Bluetooth connectivity for camera control.

Refer to the compatibility list in Section 6 to determine the appropriate connection method for your camera model.

4.5. Advanced Features

The Feiyu SCORP app unlocks additional advanced features for cinematic shots:

- **A/B Motion Path Memory:** Preset two points (A and B) for camera movement paths with customizable speed, angle, and dwell time.

- **Time-lapse:** Create dynamic time-lapse sequences.
- **Panorama:** Capture wide panoramic shots.
- **Inception Mode:** Achieve a spinning camera effect.

The high-precision Magic Wheel enables ultra-smooth focus or zoom control, enhancing creative possibilities.

Image 4.5: The Electric Multifunction Knob and A/B Point Trajectory Memory for precise control.

5. MAINTENANCE

5.1. Cleaning

Wipe the gimbal with a soft, dry cloth. Do not use liquid cleaners or solvents, as they may damage the device. Keep the gimbal free from dust and debris, especially around the motors and joints.

5.2. Storage

When not in use, store the gimbal in a dry, cool place. Engage all axis locks to prevent accidental movement and protect the motors. If storing for an extended period, ensure the battery is charged to approximately 50-60% to prolong its lifespan.

5.3. Battery Care

Avoid fully discharging the battery frequently. Recharge the battery regularly, even if the gimbal is not in use, to maintain battery health. Use only the provided charging cable.

6. SPECIFICATIONS

Key technical specifications for the FeiyuTech SCORP-C2 Gimbal Stabilizer:

Feature	Specification
Model Number	SCORP-C2
Product Dimensions	9.83 x 6.91 x 13.56 inches (24.97 x 17.55 x 34.44 cm)
Folded Size	11.77 x 2.59 x 9.95 inches (Stowed and Locked)
Item Weight	2.91 pounds (1.32 kg)
Maximum Payload	7.72 lbs (3.5 kg)
Battery Type	1 Nonstandard Battery (included)
Battery Runtime	Up to 14 hours

AI Tracking	Built-in AI 4.0 module, gesture recognition, face tracking (up to 59ft)
Connectivity	Wired (USB-C) or Bluetooth

Image 6.1: The SCORP-C2 offers an upgraded payload capacity of 7.7 lbs.

6.1. Camera Compatibility List

Refer to the following tables for compatible camera models and tested lenses. Always check the latest compatibility information on the official FeiyuTech website for updates.

Image 6.2: Sony Camera and Lens Compatibility List.

Image 6.3: Canon Camera and Lens Compatibility List.

Image 6.4: Nikon, Sigma, and BMPCC Camera and Lens Compatibility List.

Canon Camera Compatibility List / Lens Compatibility List							
Bluetooth Control	Type-C Cable Control	Model	Tested Lens ✓	Model	Tested Lens ✓	Model	Tested Lens ✓
EOS 200D II (250D) EOS M50 EOS R EOS R6 EOS R7 EOS R10 EOS R50 EOS R50 V EOS R5C EOS M50 Mark II EOS RP Powershot G7 X Mark III EOS M6 Mark II EOS R5 EOS M200 EOSR100 EOS R5 Mark II PowerShot V10 PowerShot V1	EOS M6 Mark II Powershot G7 X Mark III EOS RP EOS R EOS R5 EOS R6 EOS R6 Mark II EOS R7 EOS R8 EOS R10 EOS R50 EOS R50 V EOS R5C EOSR100 EOS R5 Mark II PowerShot V10	EOS R EOS RP EOS R6	· RF 35mm F1.8 MACRO IS STM · EF-S 18-200mm f/3.5-5.6 IS · EF 50mm f/1.4 DG HSM Art · EF 17-40mm f/4L USM · RF 50mm F1.2L USM · RF 28-70mm F2L USM · EF 24-105mm F4L IS USM · RF 15-35mm F2.8 L IS USM · RF50mm F1.8 STM · RF-S 18-45mm F4.5-6.3 IS STM · RF 85mm F2 MACRO IS STM · RF15-30mm F4.5-6.3 IS STM	EOS 80D	· TEF-S 18-200mm f/3.5-5.6 IS	EOS 6D	· 16-35mm f/2.8L II USM · EF-S 18-200mm f/3.5-5.6 IS · EF 24-105mm f/4L IS USM
				EOS 6D Mark II	· EF 24-70mm f/4L IS USM · EF 85MM F/1.2L II USM	EOS 90D	· EF-S 18-135mm f/3.5-5.6 IS USM
				EOS M50 EOS M50 Mark II	· EF-M 15-45mm F3.5-6.3 IS	EOS M6 Mark II	· EF-M 15-45mm f/3.5-6.3 IS STM
				EOS 200D II (250D)	· EF-S18-55mm f/4-5.6 IS STM	EOS R6 Mark II	· RF24mm F1.8 MACRO IS STM
				EOS 5D Mark IV	· EF 24-105mm f/4L IS USM · EF 24-70mm f/2.8L USM		
		EOS 5DS R EOS 5D Mark III	· EF 24-105mm f/4L IS USM · EF 24-105 mm f/4L IS II USM · EF 24-70mm f/2.8L II USM · 16-35mm f/2.8L II USM	EOS 70D	· 16-35mm f/2.8L II USM	EOS M200	· EF-M 15-45mm f/3.5-6.3 IS STM
				EOS 77D	· EF 24-70mm f/4L IS USM	EOS R100	· CANON LENS RF-S 18-45mm F4.5-6.3 IS STM
		EOS R5 EOS R5C	· RF14-35mm F4 L USM · RF15-30mm F4.5-6.3 IS USM	EOS 850D	· EF-S 18-55mm f/4-5.6 IS STM	EOS R5 Mark II	· CANON LENS RF 24-105mm F4 L IS USM
				EOS R8	· RF24-50mm F4.5-6.3 IS STM	EOS R10	· RF-S18-150mm F3.5-6.3 IS STM · RF35mm F1.8 MACRO IS STM · RF-S18-45mm F4.5-6.3 IS STM · RF 14-35mm f/4 L IS USM · RF 85mm F2 MACRO IS STM
		EOS R7	· RF-S18-150mm F3.5-6.3 IS STM · RF35mm F1.8 MACRO IS STM · RF-S18-45mm F4.5-6.3 IS STM · RF 14-35mm f/4 L IS USM	EOS R50	· RF-S18-45mm F4.5-6.3 IS STM		
				EOS R50 V	· RF-S14-30mm F4-6.3 IS STM PZ		

Image 6.5: Panasonic and Fujifilm Camera and Lens Compatibility List.

Compatibility Reminder: Always check your camera model using the compatibility list before mounting to ensure optimal performance. Some camera brands restrict third-party access to control features due to closed-source protocols, which may limit advanced controls on specific models.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your FeiyuTech SCORP-C2 gimbal.

7.1. Gimbal Vibrates or Motors Overheat

- **Check Balance:** Ensure the camera is perfectly balanced on all three axes. Improper balance is the most common cause of vibration and motor strain.
- **Payload:** Verify that your camera and lens combination does not exceed the gimbal's maximum payload capacity of 7.72 lbs (3.5 kg).
- **Motor Strength:** Adjust the motor strength settings via the gimbal's menu or the Feiyu SCORP app. If the motors are too strong or too weak for your setup, it can cause issues.

7.2. Camera Connection Status Not Displaying (Fujifilm/Panasonic)

If you are using a Fujifilm or Panasonic camera and the connection status does not appear on the gimbal screen, this is expected behavior. Both brands often use the audio jack for connection and control, and their transmission protocols do not support displaying the connection status on the gimbal's screen.

7.3. AI Tracking Not Responding

- **Distance:** Ensure the subject is within the effective tracking range (up to 59 feet).
- **Lighting:** Good lighting conditions are essential for accurate AI tracking.
- **Obstructions:** Ensure there are no obstructions between the gimbal's AI module and the subject.
- **Firmware:** Check for and install any available firmware updates for the gimbal, as these often improve AI performance.

7.4. Gimbal Not Powering On

- **Battery Level:** Ensure the battery is sufficiently charged. Connect the gimbal to a power source using the USB-C charging cable.

- **Power Button:** Confirm that the power button is pressed and held for the required duration to power on the device.

8. WARRANTY AND SUPPORT

FeiyuTech products are covered by a limited warranty. For detailed warranty terms and conditions, please refer to the official FeiyuTech website or contact customer support.

8.1. Customer Support

If you encounter any issues not covered in this manual or require further assistance, please contact FeiyuTech customer support through their official channels. Provide your product model (SCORP-C2) and a detailed description of the issue for efficient service.

FeiyuTech is committed to continuously improving its products. Firmware updates are regularly released to enhance functionality and compatibility. It is recommended to keep your gimbal's firmware updated for the best user experience.