

## K&F CONCEPT KF31.033

# K&F CONCEPT KF31.033 Aluminum Alloy 360 Degree Panoramic Gimbal Tripod Head User Manual

Model: KF31.033

## 1. INTRODUCTION

---

The K&F CONCEPT KF31.033 Gimbal Tripod Head is designed to provide stable and smooth support for camera and lens systems, particularly for telephoto lenses used in wildlife, sports, and panoramic photography. Constructed from durable aluminum alloy, it offers precise control and a high load capacity, ensuring your equipment remains secure and maneuverable.



Image 1.1: The K&F CONCEPT KF31.033 Gimbal Tripod Head.

## 2. PRODUCT OVERVIEW

---

### 2.1 Components

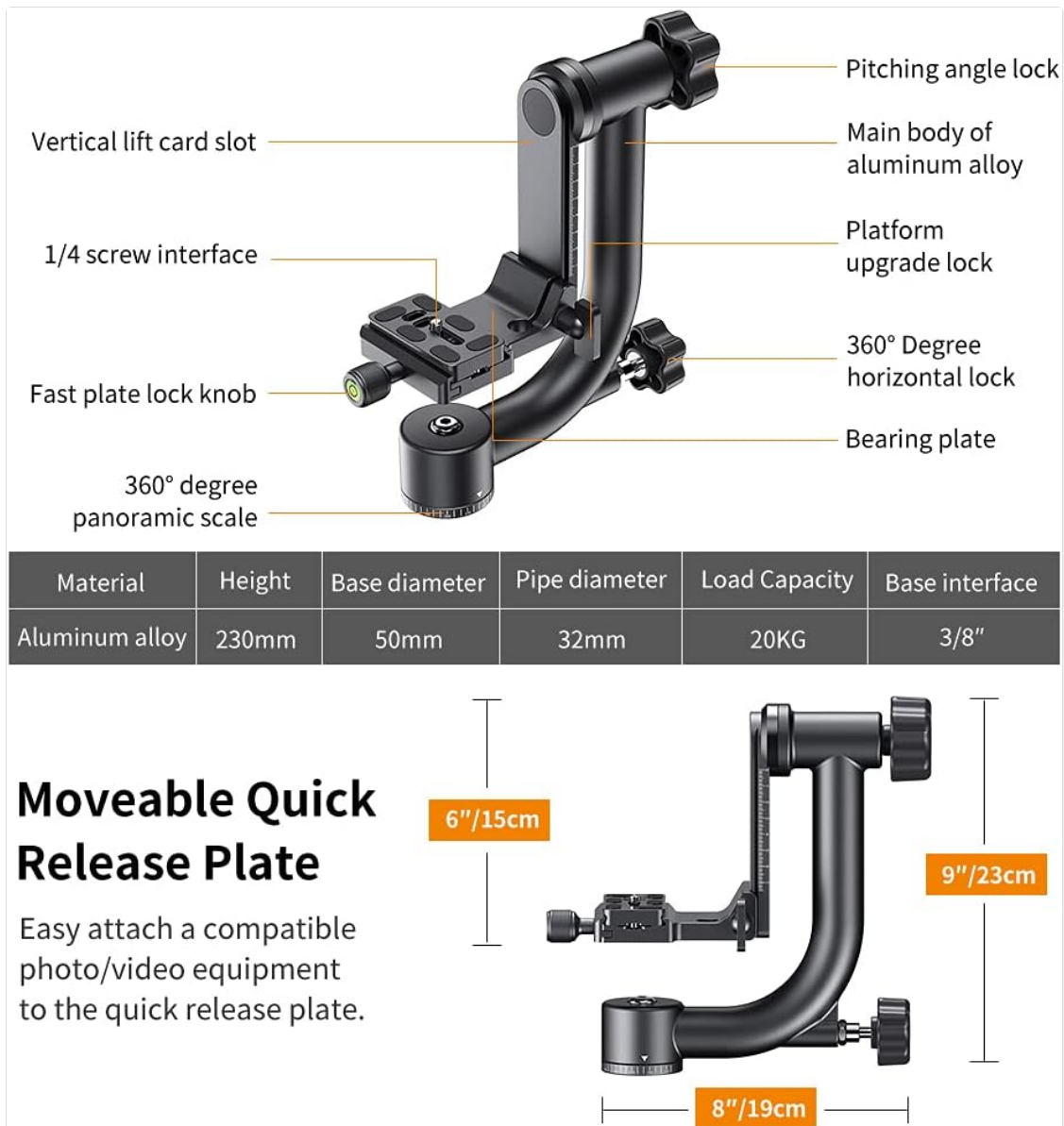


Image 2.1: Labeled diagram of the gimbal head components.

- **Main Body:** Constructed from 6061 aluminum alloy.
- **Pitching Angle Lock:** Secures the vertical tilt.
- **Vertical Lift Card Slot:** Guides the vertical arm.
- **1/4" Screw Interface:** For attaching the quick release plate.
- **Fast Plate Lock Knob:** Secures the quick release plate.
- **Platform Upgrade Lock:** Secures the adjustable platform.
- **360 Degree Horizontal Lock:** Secures the horizontal panning.
- **Bearing Plate:** Provides smooth rotation.
- **360 Degree Panoramic Scale:** For precise horizontal positioning.

## 2.2 Key Features

- **Smooth Operation:** Features an exclusive third-generation lubricant for enhanced viscosity and uniformity, ensuring fluid movements.
- **Enhanced Sealability:** High-quality sealing rings prevent grease leakage, maintaining optimal performance.
- **Robust Construction:** Made from 6061 aluminum alloy, supporting a load capacity of up to 20kg (44lbs). Designed for stable horizontal and vertical movement.

- **Precise Adjustment:** The horizontal adjustment of the lens platform allows accurate positioning of the center of gravity for various camera and lens systems. Calibrated scales aid in repeatable lens positioning.
- **Panoramic Capability:** The rotating base and vertical arm offer 360-degree rotation, facilitating diverse photographic angles.



**20kg(44lbs)**  
Load capacity

Image 2.2: The gimbal head supports heavy camera and lens setups with a 20kg (44lbs) load capacity.

### 3. SETUP

#### 3.1 Attaching to a Tripod

1. Ensure your tripod is stable and securely set up on a level surface.
2. Locate the 3/8-inch screw mount on the base of the gimbal head.
3. Align the gimbal head with the mounting screw on your tripod.
4. Rotate the gimbal head clockwise onto the tripod's mounting screw until it is firmly secured. Do not overtighten.

#### 3.2 Attaching Camera and Lens

1. Ensure the fast plate lock knob on the quick release plate is loosened.
2. Attach the quick release plate to the tripod collar of your lens or the base of your camera using the 1/4-inch screw. Ensure it is tightly secured.

3. Slide the quick release plate with your camera/lens into the clamp on the gimbal head.
4. Tighten the fast plate lock knob to secure the camera/lens in place. Verify that the equipment is stable before proceeding.

### 3.3 Balancing Equipment

Proper balancing is crucial for smooth operation and to prevent strain on the gimbal head mechanisms.

1. **Vertical Balance:** Loosen the pitching angle lock. Adjust the vertical position of the camera/lens by sliding the quick release plate forward or backward until the camera remains level when released. Tighten the pitching angle lock once balanced.
2. **Horizontal Balance:** Loosen the 360-degree horizontal lock. Adjust the horizontal position of the lens platform by sliding it along its track until the camera/lens system is centered and balanced. Tighten the horizontal lock once balanced.

## 4. OPERATING INSTRUCTIONS

### 4.1 Horizontal Panning

To pan horizontally, loosen the 360-degree horizontal lock knob located at the base of the gimbal head. Rotate the camera and lens assembly to the desired position. Use the 360-degree panoramic scale for precise angular adjustments. Tighten the knob to secure the position.



Image 4.1: The gimbal head allows for 360-degree panoramic shooting.

## 4.2 Vertical Tilting

To adjust the vertical tilt, loosen the pitching angle lock knob. Tilt the camera and lens assembly up or down to the desired angle. Tighten the knob to lock the vertical position. Ensure the equipment is balanced for smooth tilting.

## 4.3 Lifter Slide Adjustment (70mm Lifting Range)

The gimbal head features a lifter slide mechanism, providing a 70mm lifting range for height adjustment. This is particularly useful for tracking subjects in sports or wildlife photography.

1. Loosen the platform upgrade lock.
2. Slide the platform with the mounted camera/lens up or down along the vertical arm to achieve the desired shooting height.
3. Use the precision scale marks on the vertical arm for accurate and repeatable positioning.
4. Tighten the platform upgrade lock firmly to secure the height.



Image 4.2: The lifter slide provides a 70mm vertical adjustment range.

# 70mm Lifting Range

Used in sports tracking, suitable for birds or sports photography.



Image 4.3: The 70mm lifting range is beneficial for tracking moving subjects.

## 5. MAINTENANCE

- **Cleaning:** Wipe the gimbal head with a soft, dry cloth after each use to remove dust and debris. For stubborn dirt, use a slightly damp cloth and then dry thoroughly. Avoid harsh chemicals or abrasive materials.
- **Lubrication:** The gimbal head uses a specialized lubricant. Do not attempt to disassemble or re-lubricate internal components unless performed by an authorized service technician.
- **Storage:** Store the gimbal head in a dry, cool place, away from direct sunlight and extreme temperatures. Use the provided carrying case or a padded bag for protection during transport.
- **Screw Tightness:** Periodically check all screws and knobs to ensure they are securely tightened. Do not overtighten, as this can cause damage.

## 6. TROUBLESHOOTING

- **Stiff Movement:** If the panning or tilting feels stiff, ensure all locking knobs are fully loosened. If the issue persists, check for any obstructions or debris in the moving parts. Do not force movement.
- **Equipment Not Holding Position:** Verify that all relevant locking knobs (pitching angle lock, horizontal lock, fast plate lock knob) are securely tightened. Ensure the camera and lens are properly balanced on the quick release plate.

- **Quick Release Plate Loosening:** Always ensure the fast plate lock knob is fully tightened after mounting your equipment. Periodically check its tightness during use, especially with heavy setups.
- **Unstable Setup:** Confirm that the gimbal head is securely mounted to a stable tripod. Ensure the tripod legs are fully extended and locked, and that the camera/lens system is correctly balanced on the gimbal head.

If you encounter issues not covered here or require further assistance, please contact K&F CONCEPT customer support.

## 7. SPECIFICATIONS

Feature	Specification
Model Number	KF31.033
Material	6061 Aluminum Alloy
Load Capacity	20 kg (44.0 lbs)
Product Dimensions	9.06 x 7.48 x 1.57 inches
Item Weight	3.15 pounds
Folded Size	10 x 5 x 5 cm
Base Interface	3/8 inch
Quick Release Plate	1/4 inch Standard
Vertical Lifting Range	70mm
Panoramic Rotation	360 Degrees

## 8. WARRANTY AND SUPPORT

K&F CONCEPT products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official K&F CONCEPT website. For technical support, troubleshooting assistance, or inquiries regarding parts and service, please contact K&F CONCEPT customer service through their official channels.

You can find more information and contact details on the [K&F CONCEPT Store on Amazon](#).