

NEEWER GM102

NEEWER GM102 Gimbal Head Instruction Manual

Model: GM102 | Brand: NEEWER

1. INTRODUCTION

The NEEWER GM102 Gimbal Head is designed to provide stable and smooth support for DSLR cameras and telephoto lenses, particularly beneficial for wildlife and sports photography. Constructed from CNC machined aluminum alloy, it offers robust support for equipment up to 33 lbs (15 kg). This manual provides detailed instructions for setting up, operating, and maintaining your gimbal head to ensure optimal performance and longevity.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x Tripod Gimbal Head
- 1 x 1/4" to 3/8" Screw Adapter
- 1 x Hex Key Wrench



Image: NEEWER GM102 Gimbal Head and its package contents, including the gimbal head, a 1/4" to 3/8" screw adapter, and a hex key wrench.

3. PRODUCT OVERVIEW AND FEATURES

The NEEWER GM102 Gimbal Head is engineered for precision and stability, offering a range of features for professional photography.

3.1 Key Components

PACKAGE CONTENTS

- 1 x Tripod Gimbal Head
- 1 x 1/4" to 3/8" Screw
- 1 x Hex Key Wrench



SPECIFICATIONS

Model: GM102	Main Features: Three Axis Adjustment	Load Capacity: 33 lbs / 15kg
Item Type: Tripod Gimbal Head	Mounting Points: 1/4", 3/8"	Dimensions: 9.1"x6.3"x2"/23x16x5cm
Compatibility: DSLR Cameras/Telephoto Lenses	Main Material: Aluminum Alloy	Weight: 2.9 lb/1320g
Application: Photo & Video		

Image: Detailed diagram illustrating the various components of the GM102 Gimbal Head, including knobs for pitch locking, vertical balance, quick release, and base locking, along with the quick release plate and built-in level.

- **Pitch Locking Knob:** Secures the vertical tilt of the camera.
- **Vertical Balance Knob:** Adjusts the vertical position of the camera for optimal balance.
- **Quick Release Clamp:** Holds the quick release plate securely.
- **Quick Release Plate:** Attaches to your camera or lens collar for quick mounting.
- **Quick Release Plate Locking Knob:** Locks the quick release plate into the clamp.
- **Level:** Integrated bubble level for precise horizontal alignment.
- **Base Locking Knob:** Controls the 360° panoramic rotation of the base.
- **Base:** The rotating platform of the gimbal head.

3.2 Key Features

- **Unrivaled Stability:** Crafted from CNC machined aluminum alloy, supporting DSLR cameras and telephoto lenses up to 33 lbs (15 kg) for smooth tracking.
- **Three-Axis Adjustment:** Offers 360° horizontal and vertical rotation, along with up and down adjustment, secured by hand-tightening knobs. A built-in spirit level assists with setup.
- **3/8" Threaded Hole:** Features a bottom 3/8" threaded hole for attachment to tripods, monopods, or sliders.
- **Arca-Type Quick Release System:** Includes an Arca-type QR plate for rapid camera or lens changes across compatible mounting systems.
- **Hollowed-Out Design & Portability:** Measures 9.1"x6.3"x2" (23x16x5cm) and weighs 2.9 lbs (1320g), balancing reliability with portability for outdoor and on-location shoots.

NEEWER

GM102

GIMBAL TRIPOD HEAD

with 360° Pitching Boom Arm



Image: The GM102 Gimbal Head supporting a camera and telephoto lens, demonstrating its 360° pitching boom arm design. The release knob for adjustments is clearly visible.

QUICK RELEASE ARCA TYPE QR PLATE

Use the included Arca type QR plate for quick swaps among tripods, monopods, sliders, stabilizers and more.



3/8" to 1/4" ADAPTER

Expand compatibility with more tripods and equipment.

Image: The gimbal head showcasing its 360° panoramic shooting capability, with insets highlighting the rotation angle indication and the direction adjustment knob for precise control.

HOW TO USE

Note: Support your device with one hand when adjusting the knobs to prevent accidental drops



Image: Illustration of the gimbal head's vertical adjustment range (2.36"/6cm) and overall dimensions, along with its weight (2.9lb/1320g) and maximum load capacity (33lb/15kg).



Image: The quick release Arca-type QR plate and the 3/8" to 1/4" adapter, demonstrating compatibility with various camera types and mounting equipment like sliders, monopods, and tripods.

4. SETUP INSTRUCTIONS

Follow these steps to properly set up your NEEWER GM102 Gimbal Head:

1. **Secure the Gimbal Head:** Attach the gimbal head to a compatible tripod or monopod using the 3/8" threaded hole at its base. Ensure it is tightened securely.
2. **Attach Quick Release Plate to Camera/Lens:** Screw the Arca-type quick release plate onto the tripod

collar of your telephoto lens or the base of your camera. Ensure it is firmly attached.

3. **Mount Camera/Lens:** Slide the quick release plate with your camera/lens into the quick release clamp on the gimbal head. Tighten the Quick Release Plate Locking Knob to secure your equipment.
4. **Adjust Height:** Loosen the Vertical Balance Knob and adjust the vertical position of your camera/lens until it is balanced. Re-tighten the knob.
5. **Adjust Pitch:** Loosen the Pitch Locking Knob to adjust the vertical tilt (pitch) of your camera/lens. Once the desired angle is achieved, re-tighten the knob.
6. **Adjust Horizontal Angle:** Loosen the Base Locking Knob to rotate the gimbal head horizontally for panoramic adjustments. Re-tighten the knob to lock the position.

Important Note: Always support your camera or lens with one hand when loosening any adjustment knobs to prevent accidental drops and potential damage to your equipment.



Image: A visual guide demonstrating the six steps for setting up and adjusting the gimbal head, including securing it to a tripod, attaching the camera, and performing height, pitch, and horizontal angle adjustments.

5. OPERATING INSTRUCTIONS

Once the gimbal head is set up and your camera/lens is mounted, you can begin operation:

- **Balancing Your Equipment:** Achieving proper balance is crucial for smooth operation. Adjust the quick release plate's position within the clamp and the vertical balance of the swing arm until your camera and lens remain stationary when released, without tilting forward or backward.
- **Panoramic Movement:** To pan horizontally, slightly loosen the Base Locking Knob. The gimbal head will rotate smoothly 360°. Re-tighten the knob to lock the position.
- **Tilting Movement:** To tilt vertically, slightly loosen the Pitch Locking Knob. The swing arm allows for smooth up and down movement. Re-tighten the knob to secure the desired angle.
- **Fine Adjustments:** Use the marked scales on the quick release plate and swing arm for repeatable positioning and precise adjustments.



Image: Examples of the gimbal head in use for various photography types, including starscape, panoramic, and bird photography, demonstrating its versatility.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your gimbal head:

- **Cleaning:** Use a soft, dry cloth to wipe down the gimbal head after each use to remove dust and debris. For stubborn dirt, a slightly damp cloth can be used, followed by immediate drying.
- **Lubrication:** The moving parts are pre-lubricated. Avoid applying additional lubricants unless specifically recommended by the manufacturer, as this could attract dust or interfere with smooth operation.
- **Storage:** Store the gimbal head in a clean, dry environment, away from extreme temperatures and humidity.
- **Inspection:** Periodically check all screws and knobs to ensure they are tight. Do not overtighten.

7. TROUBLESHOOTING

If you encounter issues with your NEEWER GM102 Gimbal Head, consider the following:

- **Gimbal Head Feels Stiff/Not Smooth:**
 - Ensure all locking knobs (Base Locking Knob, Pitch Locking Knob) are sufficiently loosened for movement.
 - Check for any debris or foreign objects obstructing the moving parts.
- **Camera/Lens Not Stable or Tilting:**
 - Verify that the quick release plate is securely attached to your camera/lens and fully seated in the quick release clamp.
 - Ensure the Quick Release Plate Locking Knob and Vertical Balance Knob are tightened.
 - Re-balance your camera and lens by adjusting the quick release plate's position and the vertical balance of the swing arm.
- **Gimbal Head Wobbles:**
 - Confirm that the gimbal head is securely mounted to your tripod or monopod.
 - Ensure the tripod or monopod itself is stable and properly set up on a level surface.

For further assistance, please contact NEEWER customer support.

8. SPECIFICATIONS

Model	GM102
Item Type	Tripod Gimbal Head
Compatibility	DSLR Cameras / Telephoto Lenses
Application	Photo & Video
Main Features	Three Axis Adjustment
Mounting Points	1/4", 3/8"
Main Material	Aluminum Alloy
Load Capacity	33 lbs / 15 kg
Dimensions	9.1" x 6.3" x 2" (23 x 16 x 5 cm)
Weight	2.9 lbs / 1320 g

9. WARRANTY AND SUPPORT

NEEWER products are designed and manufactured to high-quality standards. For information regarding warranty coverage, product registration, or technical support, please visit the official NEEWER website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.