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> NEEWER GM16 Motorized Tripod Pan Head with APP Control, 360° Auto Motorized Rotating Panoramic Head with NP-F550 Battery/Charger, 1/4" Screw 3/8" Thread, Silent Motor, 3 Modes for Time Lapse Video

NEEWER 10102760

NEEWER GM16 Motorized Tripod Pan Head User Manual

Model: GM16 (10102760)

Brand: NEEWER

1. INTRODUCTION

The NEEWER GM16 Motorized Tripod Pan Head is an advanced device engineered to enhance your photography and videography experience. It offers precise 360° rotation, app-controlled functionality, and multiple operating modes, making it ideal for capturing dynamic time-lapses, smooth panoramic videos, and stable live streams. This manual will guide you through the setup, operation, and maintenance of your GM16 pan head.



Figure 1: NEEWER GM16 Motorized Tripod Pan Head Overview

2. PACKAGE CONTENTS

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

- 1 x GM16 Motorized Pan Head
- 1 x NP-F550 Battery
- 1 x Battery Charger
- 1 x USB Type C Cable
- 1 x Screw Adapter
- 1 x User Manual

Packing Contents



- 1 x GM16 Motorized Pan Head
- 1 x NP-F550 Battery
- 1 x Battery Charger
- 1 x USB Type C Cable
- 1 x Screw Adapter
- 1 x User Manual

Model: GM16

Material: Aluminum alloy

Input Voltage: DC 5V-7.2V 2A

Communication Interface: BLE 5.0

Shutter release port: JACK 2.5mm

Operating Temperature: -10~50°C

Dimensions:

4.2" x 3.4" x 1.7"/107 x 87 x 42mm

Weight:

23.8oz/675g (without battery),
27.5oz/780g (with battery)

Load Capacity:

Horizontal: 22lb/10kg Vertical: 4.4lb/2kg

Power Sources:

USB Type-c port or NP-F series batteries

Figure 2: Included Package Contents

3. PRODUCT FEATURES

- **Intelligent App Control:** Control the GM16 wirelessly using the NEEWER APP for precise adjustments and zero latency. It allows for customized presets and group control of multiple units.
- **3 Customizable Modes:** Offers Manual, Live Video, and Time Lapse modes for diverse shooting scenarios.
- **Ultra Silent & Smooth Rotation:** Equipped with a motor operating below 30dB, ensuring quiet and stable performance for dynamic shots.
- **Portable & Battery Powered:** Comes with a 2600mAh NP-F550 battery and charger, supporting continuous operation via 5V/2A USB power.
- **Wide Compatibility:** Features a top 1/4" screw for cameras/smartphones and a bottom 3/8" thread for tripods/monopods/sliders.

4. SETUP

4.1 Battery Installation

To power the GM16, install the included NP-F550 battery:

1. Align the NP-F550 battery with the battery slot on the side of the pan head.
2. Gently insert and slide the battery into the slot until it clicks securely into place.
3. To remove the battery, press the red release button located near the battery slot and slide the battery out.



Figure 3: Battery Installation and Removal

4.2 Mounting the Pan Head

The GM16 can be mounted on various supports and can hold different devices:

- **Mounting to a Tripod/Monopod:** Use the 3/8" thread at the bottom of the pan head to attach it to a compatible tripod or monopod. An included 1/4" to 3/8" screw adapter is provided for versatility.
- **Attaching a Camera/Smartphone:** The 1/4" screw on top of the pan head is compatible with most DSLRs, mirrorless cameras, camcorders, and smartphone holders (not included). Secure your device by screwing it onto the 1/4" screw.



Figure 4: Wide Compatibility and Mounting Options

4.3 App Connection

To utilize the smart control features, download and connect to the NEEWER APP:

1. Download the "NEEWER" app from your device's app store (iOS/Android).
2. Ensure Bluetooth is enabled on your smartphone.
3. Power on the GM16 pan head by pressing the power button.
4. Open the NEEWER app and follow the on-screen instructions to connect to the GM16 (look for "GM16" in the device list).

Smart APP Control

Use the NEEWER App to change the rotation angle, speed, and running time of GM16.



Live Video



Time Lapse



Manual



NEEWER APP

Compatible with Android/iOS

Note: Time lapse videos require a separately purchased shutter cable.

Figure 5: Smart App Control Interface

5. OPERATING MODES

The GM16 offers three distinct operating modes accessible via the NEEWER APP:

5.1 Manual Mode

In Manual mode, you have direct control over the pan head's movement:

- Set the rotation direction (Clockwise/Counter-Clockwise).
- Adjust the sliding speed (Level 1–5).
- Choose the running mode (constant/slow).

5.2 Live Video Mode

This mode is designed for continuous video recording with controlled movement:

- Set the operating angles (200–10800).
- Specify the number of loops (0–10) for repetitive motion.
- Define the running time for the sequence.

Live Video mode

In this mode, you can record interesting images from multiple angles for a long time through relevant settings.



Figure 6: Live Video Mode Interface

5.3 Time Lapse Mode

For capturing time-lapse sequences, configure the following settings:

- Set the operating angles for the pan movement.
- Adjust the shutter speed and frame-by-frame duration.
- Specify the number of shots (1–10000).
- Utilize the fixed point shoot feature for precise framing.

Note: A separate camera shutter release cable is required for taking time-lapse videos with a camera.

360° Auto Panorama



Smooth Rotation

Smooth and stable automatic panoramic photography.

Figure 7: 3600 Auto Panorama and Smooth Rotation

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the pan head. Avoid using harsh chemicals or abrasive materials.
- **Battery Care:** Store the NP-F550 battery in a cool, dry place when not in use. Fully charge the battery before extended storage and recharge every 3-6 months to maintain its health.
- **Storage:** When not in use, store the pan head in its protective carrying case to prevent dust and damage.

7. TROUBLESHOOTING

- **Device not powering on:** Ensure the NP-F550 battery is correctly installed and charged. If using USB power, verify the cable and power source (5V/2A recommended).
- **App connection issues:** Ensure Bluetooth is enabled on your device and the GM16 is powered

on. Restart both the app and the pan head if connection problems persist. Some users have reported occasional connection drops; restarting the app often resolves this.

- **Motor not moving smoothly or making noise:** Check the load capacity. The GM16 supports 22lb/10kg horizontal and 4.4lb/2kg vertical loads. Exceeding these limits can affect performance. Ensure no obstructions are blocking the rotation.
- **Time-lapse not triggering camera:** Confirm you have purchased and connected the correct camera shutter release cable. Verify settings in the NEEWER app for Time Lapse mode.

8. SPECIFICATIONS

Attribute	Value
Model	GM16
Material	Aluminum alloy
Input Voltage	DC 5V-7.2V 2A
Communication Interface	BLE 5.0
Shutter Release Port	JACK 2.5mm
Operating Temperature	-100C to 500C
Dimensions	4.2" x 3.4" x 1.7" / 107 x 87 x 42mm
Weight (without battery)	23.8oz / 675g
Weight (with battery)	27.5oz / 780g
Horizontal Load Capacity	22lb / 10kg
Vertical Load Capacity	4.4lb / 2kg
Power Sources	USB Type-C port or NP-F series batteries

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included with your product or visit the official NEEWER website. You may also contact NEEWER customer service directly for assistance with product inquiries, troubleshooting, or replacement parts.

Website: www.neewer.com

