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› BENRO Polaris Smart Electric Tripod Head User Manual

## BENRO benro-polaris

# BENRO Polaris Smart Electric Tripod Head User Manual

Model: benro-polaris | Brand: BENRO

## 1. INTRODUCTION

The BENRO Polaris is an advanced smart electric tripod head engineered for precision photography and astronomical observation. Its intelligent features, robust design, and user-friendly interface make it an indispensable tool for capturing stunning landscapes, celestial events, and dynamic timelapses. This manual provides comprehensive instructions for setup, operation, and maintenance to ensure optimal performance and longevity of your Polaris unit.

## 2. SAFETY INFORMATION

- Always ensure the tripod head is securely mounted before attaching any camera equipment.
- Do not exceed the maximum payload capacity of 7kg. Overloading can damage the unit and attached equipment.
- Keep the device away from extreme temperatures and direct sunlight for prolonged periods.
- Although the unit has IPX6 water resistance, avoid submerging it in water.
- Do not attempt to disassemble or repair the unit yourself. Refer to qualified service personnel.
- Ensure all cables are properly connected and secured to prevent accidental disconnections during operation.

## 3. PACKAGE CONTENTS

Verify that all items are present in your BENRO Polaris package:

- BENRO Polaris Smart Electric Tripod Head
- Quick Release Plate (Arca-Swiss standard)
- USB Charging Cable
- Instruction Manual
- Carrying Case
- Various Camera Control Cables (e.g., USB-C, Micro USB, Mini USB)



Figure 3.1: BENRO Polaris with its complete set of accessories and carrying case.

## 4. PRODUCT OVERVIEW

Familiarize yourself with the main components and controls of the BENRO Polaris.



Figure 4.1: Front view of the BENRO Polaris Smart Electric Tripod Head, highlighting the power button, control knobs, and various ports.

## 4.1. Main Components

- **Quick Release Clamp:** For attaching the quick release plate with your camera.
- **Pan Axis Control Knob:** Adjusts horizontal rotation.
- **Tilt Axis Control Knob:** Adjusts vertical tilt.
- **Power Button:** Turns the unit on/off.
- **USB-C Port:** For charging and data transfer.
- **Camera Control Ports:** Various ports for connecting to different camera models.

## 5. SETUP

### 5.1. Charging the Battery

Before first use, fully charge the Polaris unit using the provided USB charging cable. Connect the USB-C end to the Polaris and the other end to a standard USB power adapter (not included).

## 5.2. Mounting the Polaris

1. Attach the Polaris to a sturdy tripod using the 3/8" or 1/4" screw mount at its base. Ensure it is tightened securely.
2. Attach the quick release plate to your camera's tripod socket.
3. Slide the quick release plate with your camera into the Polaris's quick release clamp until it clicks into place. Ensure the camera is balanced.

## 5.3. Connecting to the App

Download the official BENRO Polaris app from your device's app store. Turn on the Polaris unit by pressing and holding the power button. Open the app and follow the on-screen instructions to connect your smartphone to the Polaris via Bluetooth or Wi-Fi.

## 6. OPERATING INSTRUCTIONS

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The BENRO Polaris offers various intelligent shooting modes accessible via the dedicated app.

### 6.1. Basic Operation

- **Power On/Off:** Press and hold the power button for 3 seconds.
- **Manual Adjustment:** Loosen the pan and tilt control knobs to manually adjust the camera's position. Tighten them to lock the position.

### 6.2. Star Tracking Mode

The Polaris excels in astrophotography with its precise star tracking capabilities, utilizing built-in accelerometer and electronic compass.

1. Ensure the Polaris is level and stable.
2. Open the app and select 'Star Tracking' mode.
3. Follow the app's calibration instructions, which may involve pointing the camera at specific celestial bodies or using GPS data.
4. Set your camera's exposure settings as required for astrophotography.
5. Initiate tracking via the app. The Polaris will automatically move to compensate for Earth's rotation.

### 6.3. Timelapse Photography

Create dynamic timelapses with customizable intervals and movements.

1. In the app, select 'Timelapse' mode.
2. Define your start and end points for camera movement (if desired).
3. Set the interval between shots, total number of shots, and exposure time.
4. Connect your camera to the Polaris using the appropriate control cable.
5. Start the timelapse sequence. The Polaris will execute the programmed movements and trigger the camera.

### 6.4. Automatic Panorama

Capture seamless panoramic images with ease.

1. Select 'Panorama' mode in the app.

2. Choose the desired field of view (e.g., 180°, 360°).
3. The Polaris will automatically calculate the necessary number of shots and their overlap.
4. Initiate the panorama capture. The Polaris will move the camera and trigger shots automatically.
5. Stitch the images together using post-processing software.

## 6.5. Scene Retouching (Automatic Object Removal)

This feature allows for automatic removal of moving objects or people from a series of photos.

1. Set up your camera and Polaris for a static scene.
2. In the app, select 'Scene Retouching' mode.
3. The Polaris will capture multiple images of the same scene over a period.
4. The app will then process these images to identify and remove transient elements, creating a clean final image.

## 7. MAINTENANCE

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### 7.1. Cleaning

- Wipe the unit with a soft, dry cloth.
- For stubborn dirt, use a slightly damp cloth and then dry thoroughly.
- Do not use harsh chemicals or abrasive cleaners.

### 7.2. Storage

- Store the Polaris in its carrying case when not in use to protect it from dust and impacts.
- Store in a cool, dry place, away from direct sunlight and high humidity.
- If storing for extended periods, charge the battery to approximately 50% every few months to maintain battery health.

## 8. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Unit does not power on.	Low battery.	Charge the unit fully.
Cannot connect to app.	Bluetooth/Wi-Fi off; app not updated; unit not in pairing mode.	Ensure Bluetooth/Wi-Fi is on; update app; restart Polaris and app.
Camera not triggering.	Incorrect cable; camera settings; cable not fully inserted.	Verify correct cable for your camera model; check camera's remote control settings; ensure cable is firmly connected.
Movement is jerky or inaccurate.	Payload too heavy; unit not level; calibration needed.	Reduce payload; ensure unit is perfectly level; perform app calibration.

## 9. SPECIFICATIONS

Feature	Detail
Brand	BENRO
Model Number	benro-polaris
Product Dimensions	8.9 x 24.2 x 24.1 cm
Item Weight	1.1 kg (1100 grams)
Recommended Maximum Weight	7 kg
Color	Black
Compatible Devices	Smartphone (via app)
Tripod Type	Panorama Tripod, Electric Tripod
Water Resistance	IPX6
Quick Release Plate	Arca-Swiss Standard

## 10. WARRANTY AND SUPPORT

The BENRO Polaris is a domestic genuine product with full support and after-sales service in Japan. For warranty claims, technical assistance, or service inquiries, please contact your local BENRO authorized dealer or visit the official BENRO website for contact information.

Please retain your proof of purchase for warranty validation.

