Benro VX20

Benro VX20 Two Series Arca-Swiss Style Aluminum Ballhead Instruction Manual

Model: VX20 | Brand: Benro

1. INTRODUCTION

This manual provides detailed instructions for the proper setup, operation, and maintenance of your Benro VX20 Two Series Arca-Swiss Style Aluminum Ballhead. Designed for versatile camera support, this ballhead offers precise control for various photographic and videographic applications.

2. PACKAGE CONTENTS

- Benro VX20 Two Series Arca-Type Aluminum Ball Head
- Arca-Swiss Compatible Quick Release Plate (Benro PU50X)
- Allen Keys (for plate attachment)

3. KEY FEATURES

- **Two Series Design:** Compact and precise control for various shooting scenarios.
- **Arca-Swiss Compatibility:** Fast and secure camera mounting with a quick-release clamp and plate.
- **Dual Panoramic Rotation:** Independent panning at both the base and the quick-release platform for level panoramas and horizontal adjustments.
- **Friction and Lock Controls:** Separate controls for ball tension and pan locking for fine-tuned adjustments.
- **Durable Aluminum Construction:** Made from strong aluminum alloy with ergonomic control knobs.
- **Standard Tripod-Mount Interface:** Compatible with most tripods.

4. SETUP INSTRUCTIONS

4.1 Attaching the Ballhead to a Tripod

The Benro VX20 ballhead features a standard 1/4-inch connector at its base for mounting onto a tripod or other support system. Ensure the tripod's mounting screw is securely tightened into the ballhead's base.

Figure 1: The Benro VX20 Ballhead, showing the main body, control knobs, and Arca-Swiss compatible clamp.

4.2 Attaching the Quick Release Plate to Your Camera

The included Arca-Swiss compatible quick release plate (Benro PU50X) attaches to the bottom of your camera. Use the provided Allen key or a coin to securely fasten the plate's screw into your camera's tripod socket. Ensure the plate is oriented correctly and tightened to prevent camera rotation.

Figure 2: Top view of the Benro PU50X quick release plate, showing the camera mounting screw and anti-twist pins.

Figure 3: Bottom view of the Benro PU50X quick release plate, illustrating the channel for the clamp and safety stops.

4.3 Mounting Your Camera to the Ballhead

With the quick release plate attached to your camera, open the quick release clamp on the ballhead by turning the clamp knob. Slide the camera with its plate into the clamp. Ensure the plate is fully seated, then tighten the clamp knob until the camera is securely held. The ballhead features a safety lock mechanism to prevent accidental release.

Figure 5: Detail of the quick release clamp, highlighting the P&T (Pull & Turn) safety system for secure camera attachment.

5. OPERATING INSTRUCTIONS

5.1 Ball Head Adjustment (Main Lock Knob)

The large main lock knob controls the movement of the ball. Loosen this knob to allow the camera to tilt and swivel freely. Tighten it to lock the camera securely in position. The knob also integrates a friction adjustment, allowing you to set the desired resistance for ball movement.

Figure 6: The main ball lock knob, used to control the movement and friction of the ball head.

5.2 Dual Panoramic Control

The VX20 features dual panoramic control:

- **Base Panning:** The knob at the base of the ballhead allows for 360-degree rotation of the entire head. Loosen this knob to pan the ballhead horizontally without affecting the ball's tilt.
- **Platform Panning:** A smaller knob on the quick-release platform allows for independent panning of the camera itself. This is useful for making small horizontal adjustments or creating stitched panoramas without re-leveling the main ball.

Figure 7: The panoramic lock knob located at the base of the ballhead, enabling 360-degree rotation.

5.3 Bubble Level

A small bubble level is integrated into the quick release clamp to assist with precise leveling of your camera. Ensure the bubble is centered for a perfectly level shot.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Benro VX20 ballhead, follow these maintenance guidelines:

- Keep the ballhead clean and free from dust, dirt, and moisture. Use a soft, dry cloth for cleaning.
- Avoid using harsh chemicals or abrasive materials, as these can damage the finish and internal components.
- Periodically check all screws and knobs for tightness.
- Do not over-tighten knobs, as this can cause damage.
- Store the ballhead in a protective bag when not in use.

7. TROUBLESHOOTING

If you encounter any issues with your Benro VX20 ballhead, consider the following:

- **Camera Slipping:** Ensure the quick release plate is securely attached to your camera and the quick release clamp knob is fully tightened. Check that the safety lock mechanism is engaged.
- **Ball Movement Too Loose/Tight:** Adjust the friction control integrated into the main ball lock knob to achieve the desired resistance.
- **Panoramic Movement Stiff:** Ensure the panoramic lock knob at the base is sufficiently loosened.
- **Unusual Noises:** Discontinue use and inspect for any loose parts or damage. Contact customer support if the issue persists.

8. SPECIFICATIONS

Attribute	Value
Model Number	VX20
Product Dimensions	6 x 4.6 x 4.5 inches
Item Weight	10.4 ounces
Material	Aluminum Alloy
Color	Black
Compatible Devices	Camera
Mounting Type	Arca-Swiss Compatible
Load Capacity	Up to 25 kg

9. WARRANTY AND SUPPORT

The Benro VX20 ballhead comes with a standard limited warranty of 3 years from the date of purchase for the original owner. If you register the product online, the warranty is extended by 2 additional years, for a total of 5 years, in applicable regions.
For technical support, warranty claims, or further assistance, please visit the official Benro website or contact their customer service department.

Related Documents - VX20

[Benro Professional S6 Video Head User Manual](#)
User manual and setup guide for the Benro Professional S6 Video Head, covering installation, adjustments, and safety notices.

	[Benro Polaris Smart Electric Tripod Head and 3rd Axis User Manual and Specifications](#) This document provides specifications, item lists, warranty information, and FCC warnings for the Benro Polaris Smart Electric Tripod Head and its 3rd Axis accessory. It details technical parameters, included components, and warranty terms for both products.
	[Benro Mach 3 Series Tripod Instruction Guide](#) Comprehensive instructions for setting up and operating your Benro Mach 3 series carbon fiber tripods, covering leg angle and section adjustments, center column operation, reversible mounting screw, interchangeable feet, and monopod conversion.
	[Benro Travel Angel Series Tripods: Operating Instructions and User Notice](#) Comprehensive operating instructions and user notice for Benro Travel Angel Series tripods, covering setup, operation, maintenance, and safety guidelines for professional photographic equipment.
	[Benro 3XS Gimbal Smartphone Stabilizer User Manual](#) Comprehensive user manual for the Benro 3XS smartphone gimbal, detailing setup, features, specifications, and operating instructions for photography and videography.