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› Andoer FNR-200 Camera Rail Nodal Slide Instruction Manual

Andoer FNR-200

Andoer FNR-200 Camera Rail Nodal Slide Instruction Manual

Model: FNR-200

1. INTRODUCTION

The Andoer FNR-200 Camera Rail Nodal Slide is a versatile accessory designed for photographers requiring precise camera positioning for panoramic stitching and macro focus stacking. Constructed from durable aviation-grade aluminum alloy, it offers stability and ease of adjustment for various photographic setups.

2. PRODUCT OVERVIEW

The FNR-200 features a robust design with multiple functionalities to enhance your photography experience.

Key Features:

- **Versatile Expansion Platform:** Integrated with 10 standard 1/4-inch screw holes, dual dovetail slots, and a strap hole, allowing for the attachment of cameras, lenses, flashes, monitors, and other accessories.
- **Precise Panorama and Macro:** Equipped with a 185mm professional node rail for seamless panorama stitching and accurate macro focus stacking through smooth camera position adjustments.
- **Lightweight and Sturdy Construction:** Made from CNC aviation-grade aluminum alloy with a hollowed-out design for weight reduction and a black hard anodized surface for durability.
- **Quick and Accurate Leveling:** Features a built-in high-precision bubble level within the clamp and stable dual anti-slip nails at the base for quick and intuitive leveling.
- **Quick Release Mechanism:** A metal knob quick release design ensures rapid and stable installation with compatible tripods, ball heads, plates, and accessories.

Component Identification:

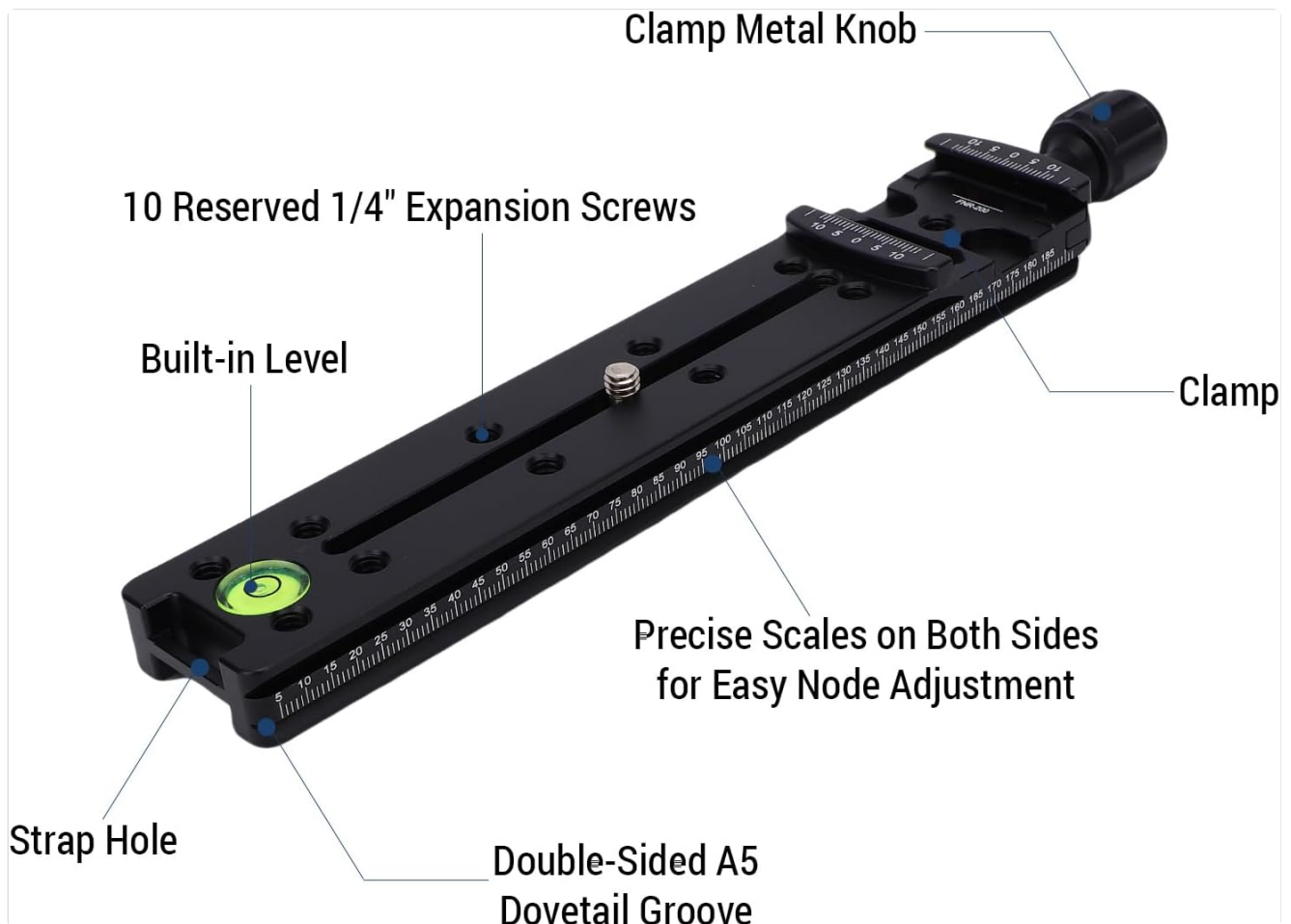


Figure 2.1: Labeled components of the Andoer FNR-200 Nodal Slide, showing the clamp metal knob, 1/4" expansion screws, built-in level, precise scales, strap hole, and double-sided dovetail groove.

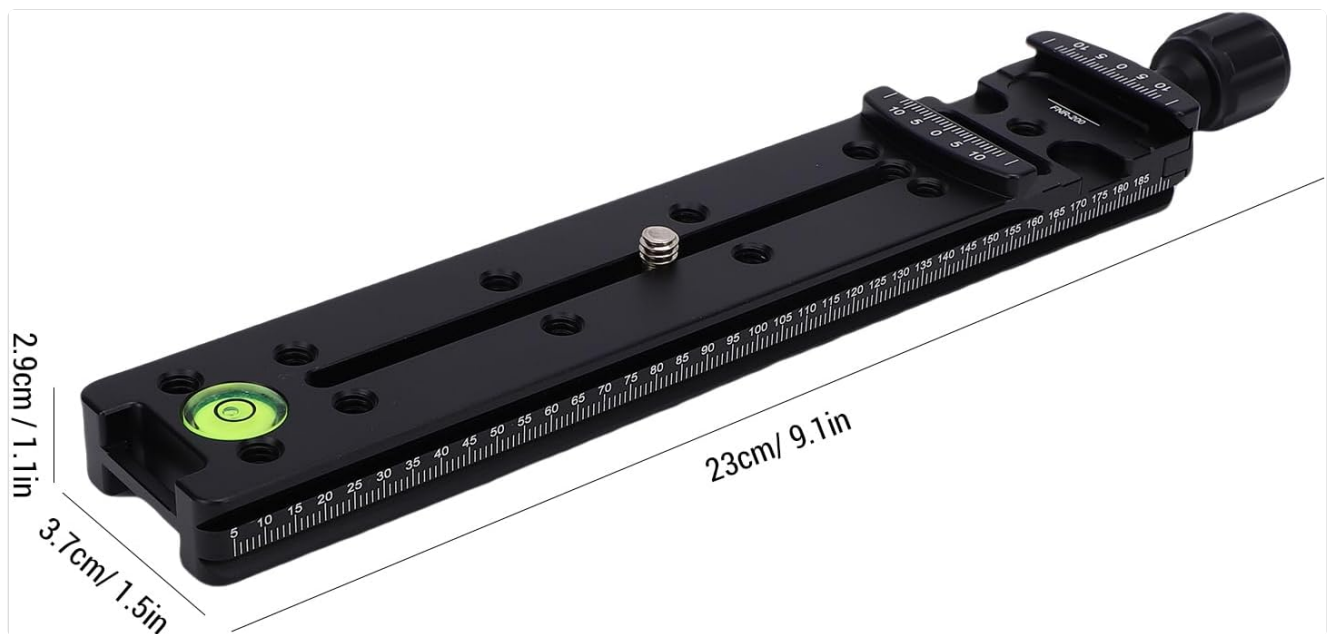


Figure 2.2: Andoer FNR-200 Nodal Slide displaying its overall dimensions: approximately 23cm (9.1in) in length, 3.7cm (1.5in) in width, and 2.9cm (1.1in) in height.

It is designed with anti-slip studs to prevent the machine from accidentally slipping.



Figure 2.3: Close-up view of the Andoer FNR-200 Nodal Slide, highlighting the anti-slip studs designed to prevent accidental slippage of attached equipment.

Double-layer dovetail groove design



Figure 2.4: Detail of the double-layer dovetail groove design on the Andoer FNR-200 Nodal Slide, providing secure mounting options.



Figure 2.5: Close-up of the built-in high-precision bubble level on the Andoer FNR-200 Nodal Slide, essential for accurate horizontal composition.

3. SETUP

1. **Attach to Tripod/Ball Head:** Secure the FNR-200 Nodal Slide to your tripod or ball head using the quick release clamp mechanism. Ensure it is firmly tightened with the metal knob.
2. **Mount Camera/Lens:** Attach your camera or lens to the 1/4-inch screw on the nodal slide. Ensure the camera plate is properly seated in the dovetail groove and secured.
3. **Initial Leveling:** Use the built-in bubble level to ensure the nodal slide is perfectly horizontal. Adjust your tripod or ball head as needed.

4. OPERATING INSTRUCTIONS

4.1. Panoramic Photography

For seamless panoramic image stitching, it is crucial to rotate the camera around its nodal point (no-parallax point). The FNR-200's 185mm rail allows for precise adjustment to find this point for your lens.

1. Mount your camera and lens onto the nodal slide.
2. Adjust the camera's position along the 185mm rail until the lens's nodal point is directly above the rotation axis of your tripod head. This is typically achieved by observing foreground and background elements for parallax shift as you rotate the camera.

3. Once the nodal point is set, use the precise scales on the rail for future reference.
4. Ensure the built-in bubble level indicates a perfectly horizontal setup before capturing your panoramic series.



When using a long plate clamp for panoramic photography, the lens axis can be precisely use as a node to achieve seamless stitching of panoramic images to the greatest extent possible.

Figure 4.1: The Andoer FNR-200 Nodal Slide configured for panoramic photography, demonstrating how the lens axis can be precisely used as a node for seamless image stitching.

4.2. Macro Photography

The nodal slide is also effective for macro photography, allowing fine adjustments for focus stacking and precise framing without moving the subject.

1. Mount your camera with a macro lens onto the nodal slide.
2. Position the camera at the desired distance from your subject.
3. Use the rail to make small, incremental adjustments to the camera's position, capturing multiple images at different focus planes for focus stacking. This reduces the need to frequently adjust the tripod.

When doing macro photography, the tripod can be moved and adjusted a wide range of distances, reducing the frequency of tripod adjustments and greatly improving filming efficiency and stability!



Figure 4.2: The Andoer FNR-200 Nodal Slide in a macro photography setup, illustrating how the tripod can be moved and adjusted over a wide range of distances to improve filming efficiency and stability.

4.3. Quick Release Operation

The metal knob quick release system allows for fast and secure attachment or detachment of equipment.

1. To attach: Align the dovetail plate of your camera or accessory with the clamp's groove. Turn the metal knob clockwise to tighten and secure the plate.

2. To detach: Turn the metal knob counter-clockwise to loosen the clamp, then slide out the plate.



Figure 4.3: The Andoer FNR-200 Nodal Slide showing a point where it can be tightened with a hex wrench for additional security or adjustment.

5. MAINTENANCE

- **Cleaning:** Wipe the nodal slide 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.
- **Storage:** Store the nodal slide in a dry, cool place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically check all screws and moving parts for tightness. Do not overtighten.
- **Avoid Harsh Chemicals:** Do not use abrasive cleaners or solvents, as these can damage the anodized finish.

6. TROUBLESHOOTING

- **Equipment feels loose:** Ensure all quick release knobs and mounting screws are fully tightened. Check that the camera plate is correctly seated in the dovetail groove.
- **Difficulty achieving level:** Verify that your tripod and ball head are stable and properly adjusted. Re-check the built-in bubble level.
- **Sticking adjustments:** Clean the rail and moving parts to remove any accumulated dust or grit. Do not force adjustments.

7. SPECIFICATIONS

Model	FNR-200
Material	Aluminum Alloy
Max Load	10kg / 22lbs
Size (Approx.)	23 x 3.7 x 2.9cm / 9.1 x 1.5 x 1.1in
Weight (Approx.)	177g / 6.2oz
Screw Holes	10 standard 1/4-inch
Dovetail Slots	Dual

8. WARRANTY AND SUPPORT

This Andoer FNR-200 Camera Rail Nodal Slide comes with a manufacturer warranty for 90 days from the date of purchase. Please retain your proof of purchase for warranty claims.

For technical support or warranty inquiries, please contact your retailer or visit the official Andoer website for further assistance.

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Question

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Details

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