

INNOREL RT80C

INNOREL RT80C Carbon Fiber Tripod User Manual

Model: RT80C

1. INTRODUCTION

This manual provides instructions for the safe and effective use of your INNOREL RT80C Carbon Fiber Tripod. Please read this manual thoroughly before operating the product and retain it for future reference. The RT80C is a professional-grade, heavy-duty carbon fiber tripod designed for various photographic and birdwatching applications, offering stability and versatility.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Material:** Constructed from 8-layer carbon fiber for legs and CNC-machined aluminum alloy for main parts, ensuring high strength-to-weight ratio.
- **Load Capacity:** Supports up to 20 kg (44.1 lbs).
- **Leg Diameter:** Maximum leg tube diameter of 32mm.
- **Adjustable Height:** Extends from a minimum height of 12 cm (4.72 in) to a maximum height of 160 cm (63 in).
- **Compact Design:** Folds to 56 cm (22 in) for portability.
- **Leg Sections:** Features 4-section legs with twist locks for quick and secure adjustments.
- **Multi-Angle Shooting:** Legs can be independently adjusted to three angles (13°, 26°, 67°) for stability on uneven terrain.
- **Interchangeable Spikes:** Includes screw-in rubber spikes and stainless steel spikes for various ground conditions.
- **Bowl Adapter:** Comes with a 75mm bowl adapter for quick leveling with compatible fluid heads.
- **3/8" Screw Hole:** Standard mounting screw for various camera heads.

2.2 Components

The INNOREL RT80C tripod package includes the following items:

- RT80C Tripod Body
- 75mm Bowl Adapter
- Tripod Bag
- Tripod Bag Strap
- Stainless Steel Spikes (3 pcs)
- Allen Keys (2 pcs)



Package List

1. Packaging carton *1

3. RT80C tripod *1

5. Stainless steel spike *3

7. 75mm bowl adapter *1

2. Tripod bag *1

4. Tripod bag strap *1

6. Allen key *2



Figure 1: Package Contents. This image displays the items included in the INNOREL RT80C tripod package: the tripod, a carrying bag, a shoulder strap, a 75mm bowl adapter, three stainless steel spikes, and two Allen keys.

Tripod Detail



Figure 2: Tripod Details. This image highlights various features of the RT80C tripod, including the bubble spirit level, 3/8" screw hole, spring buckle for leg angle adjustment, sponge grip sleeve, replaceable spikes, and rubber sleeves on the twist locks.

3. SETUP

3.1 Unpacking and Initial Inspection

1. Carefully remove all components from the packaging carton.
2. Inspect all parts for any signs of damage. If any damage is found, contact customer support immediately.
3. Familiarize yourself with the components listed in Section 2.2.

3.2 Extending the Tripod Legs

1. Loosen the twist locks on each leg section by rotating them counter-clockwise.
2. Extend each leg section to the desired length.
3. Securely tighten the twist locks by rotating them clockwise until firm. Do not overtighten.

Tube Detail



Figure 3: Leg Tube Details. This image illustrates the different diameters of the 4-section carbon fiber leg tubes (32mm, 28mm, 25mm, 22mm) and shows the rubber sleeve on the twist lock, as well as the two types of interchangeable spikes.

3.3 Attaching a Camera Head

The RT80C tripod supports two main configurations for attaching a camera head:

1. **Normal State (Flat Plate):** The tripod comes with a standard flat mounting plate (80mm diameter) with a 3/8" screw. Attach your ball head or fluid head directly to this plate by screwing it onto the 3/8" stud. Ensure it is securely tightened.
2. **Quick Leveling State (75mm Bowl Adapter):** For fluid heads that require a leveling base, remove the flat plate and insert the provided 75mm bowl adapter. Secure the bowl adapter in place. Then, mount your compatible fluid head onto the bowl adapter.

Two Shooting States

Install or remove the top plate to meet different shooting needs.

Normal State



Quick Leveling State



Figure 4: Mounting Plate Options. This image demonstrates how to switch between the normal flat plate mounting state and the quick leveling state using the 75mm bowl adapter. The top plate is 80mm in diameter, and the bowl adapter is 75mm.

4. OPERATING INSTRUCTIONS

4.1 Adjusting Leg Angles

Each leg can be independently adjusted to three different angles (13°, 26°, 67°) to adapt to various terrains and shooting requirements. To adjust a leg angle:

1. Press the spring buckle located at the top of the leg hinge.
2. Move the leg to the desired angle position until it locks into place.
3. Ensure all legs are securely locked at their chosen angles before mounting equipment.

Working Height

- ✓ Adjust Three Angles(13°/26°/67°)
- ✓ Low Position:13°-->12cm/4.7in
- ✓ Middle Position:26°-->31cm/12in
- ✓ High Position:67°-->52cm/20in



Figure 5: Adjustable Working Heights. This image illustrates the tripod's various working heights achieved by adjusting the leg angles (13°, 26°, 67°) and extending the leg sections. It shows the tripod at low, middle, and high positions, reaching up to 160cm (63in).

4.2 Using Interchangeable Spikes

The RT80C tripod includes both rubber feet and stainless steel spikes to provide optimal stability on different surfaces.

- **Rubber Feet:** Ideal for indoor use or delicate surfaces to prevent scratches and provide grip.
- **Stainless Steel Spikes:** Recommended for outdoor use on soft ground, grass, sand, or ice to provide enhanced grip and stability.

To change the spikes, simply unscrew the current foot/spike and screw in the desired one. Ensure they are tightened securely.

4.3 Leveling the Tripod

Use the integrated bubble spirit level on the tripod's main body to ensure your setup is perfectly level. Adjust the leg lengths or the bowl adapter (if used) until the bubble is centered.

5. MAINTENANCE

Proper maintenance will extend the lifespan of your INNOREL RT80C tripod.

- **Cleaning:** After each use, especially in dusty, sandy, or wet environments, wipe down the tripod with a clean, damp cloth. For stubborn dirt, use a mild soap solution. Ensure all parts are thoroughly dried before storage.
- **Leg Locks:** Periodically clean the twist locks to prevent sand or grit from interfering with their operation. If they become stiff, a small amount of silicone lubricant can be applied, but avoid oil-based lubricants.
- **Storage:** Store the tripod in its carrying bag in a dry, cool place away from direct sunlight and extreme temperatures.
- **Inspection:** Regularly check all screws and connections for tightness. Use the provided Allen keys to tighten any loose parts.

6. TROUBLESHOOTING

6.1 Tripod Legs Not Extending/Retracting Smoothly

- **Issue:** Leg sections feel stiff or gritty when extending or retracting.
- **Solution:** This is often caused by dirt, sand, or dust inside the leg locks. Fully extend the legs, clean the twist locks and leg sections thoroughly with a damp cloth, and allow them to dry. If necessary, disassemble the leg sections (refer to advanced maintenance guides or contact support) to clean the internal shims.

6.2 Bowl Adapter Sticking or Not Leveling Smoothly

- **Issue:** The 75mm bowl adapter does not move smoothly within its socket or gets stuck.
- **Solution:** Ensure the locking knob for the bowl adapter is fully loosened. Clean the surfaces of the bowl and the adapter with a clean, dry cloth to remove any debris. If the issue persists, the mating surfaces may require light lubrication with a dry film lubricant or a very fine polish.

6.3 Instability or Wobble

- **Issue:** The tripod feels unstable or exhibits wobble during use.
- **Solution:**
 - a. Ensure all leg twist locks are fully tightened.
 - b. Verify that all leg angle locks are securely engaged.
 - c. Check that the camera head is firmly attached to the mounting plate or bowl adapter.
 - d. Ensure the camera or lens is properly balanced on the head.
 - e. On uneven ground, adjust leg lengths and angles to achieve maximum stability. Use stainless steel spikes on soft ground.

7. SPECIFICATIONS

Feature	Specification
Brand	INNOREL
Model Name	RT80C
Material	Carbon Fiber (legs), Aluminum (body)

Feature	Specification
Maximum Load Capacity	20 kg (44.1 lbs)
Maximum Height	160 cm (63 inches)
Minimum Height	12 cm (4.72 inches)
Folded Length	56 cm (22 inches)
Number of Leg Sections	4
Leg Tube Diameter (Max)	32 mm
Item Weight	1.8 kg (3.97 lbs)
Compatible Devices	Camera, DSLR, Camcorder
Special Features	Adjustable, Compact, Lightweight, Bowl Adapter Included

8. WARRANTY AND SUPPORT

8.1 Warranty Information

INNOREL provides a **2-year warranty** for the RT80C Carbon Fiber Tripod. This warranty covers manufacturing defects and ensures the product is free from defects in material and workmanship under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, accident, unauthorized modification, or normal wear and tear.

8.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact INNOREL customer support through the official INNOREL store or website. You can also reach out via the platform where you purchased the product.

Contact Information:

- Visit the [INNOREL Official Store on Amazon](#).
- Refer to the contact details provided with your product packaging.