

## OVERVIEW

The Intellitron AC-2202S is a compact and portable tripod mount for antennas, supporting frequencies from 40 m to 70 cm. It features a 1/4 in internal thread for easy attachment to standard photography tripods and an additional hole for securing the antenna.

## KEY FEATURES

- **Easy Installation:** No tools required—ground connections are secured with included M5 thumb screws.
- **Compact & Lightweight:** Weighs approximately 8.5 oz, ideal for travel.
- **Durable Construction:** Metal fitting for stable antenna mounting.

## SPECIFICATIONS

- **Weight:** ~8.5 oz
- **Tripod Mounting Thread:** 1/4-20 UNC
- **Coaxial Pigtail:** 7.8 inch, 50 ohm
- **Included Parts:**
  - R5.5-5 Ring Terminal x3
  - Butterfly bolts (M5 x 8mm) x3

## WHAT YOU'LL NEED

1. Mobile antenna (HF to 430MHz)
2. Camera tripod with 1/4-20 UNC
3. Crimp terminals
4. Ground wire (3m to 5m or longer) ***\*not supplied***

## **INSTALLATION INSTRUCTIONS**

### **For HF Band Operation**

1. **Position the tripod** on stable ground.
2. **Attach the ground wire** to the Intellitron AC-2202S and secure it to the tripod.
3. **Spread ground wires radially** (use at least 4 wires, each 10-16 ft long).
4. **Lower the tripod** as much as possible to keep the ground wires in contact with the earth.
5. **Lay the coaxial cable on the ground** to improve SWR stability.

### **Tips for Best Performance:**

- A longer ground wire improves grounding efficiency.
- If installing on a balcony, connect the ground wire to handrail for better performance.
- If SWR does not improve, increase the number or length of ground wires.

### **For 144-430MHz Antenna Installation**

1. **Prepare a metal rod (2-3mm thick, brass or stainless steel) and attach a crimp terminal.**
  - 144MHz: Rod length ~20 in
  - 430MHz: Rod length ~6.7 in
2. **Adjust radials for optimal SWR:**
  - Extend radials slightly and fine-tune by trimming.
  - Position radials horizontally for best results (angling downward can also impact SWR).
3. **Dual-band setup:**
  - If using both 144MHz and 430MHz, connect two radials in different directions for simultaneous operation.

**Note:** Radials are different from ground wires—no need to connect them to a ground plug.



### **TWO YEAR LIMITED WARRANTY**

This Limited Product Warranty is provided by the Dealer where your Intellitron product was purchased. The Product Warranty extends only to the original purchaser of the product and is valid for a period of two years from the date of purchase. Please keep your dated sales receipt as evidence of the date of purchase. You will need it to receive warranty service. Your Dealer warrants the product will be free from defects in workmanship and materials under normal use. If the product fails to conform to the warrant and is within the warranty period of two years, contact your original dealer for a return authorization. Your dealer may choose to either repair or replace the non-conforming product.