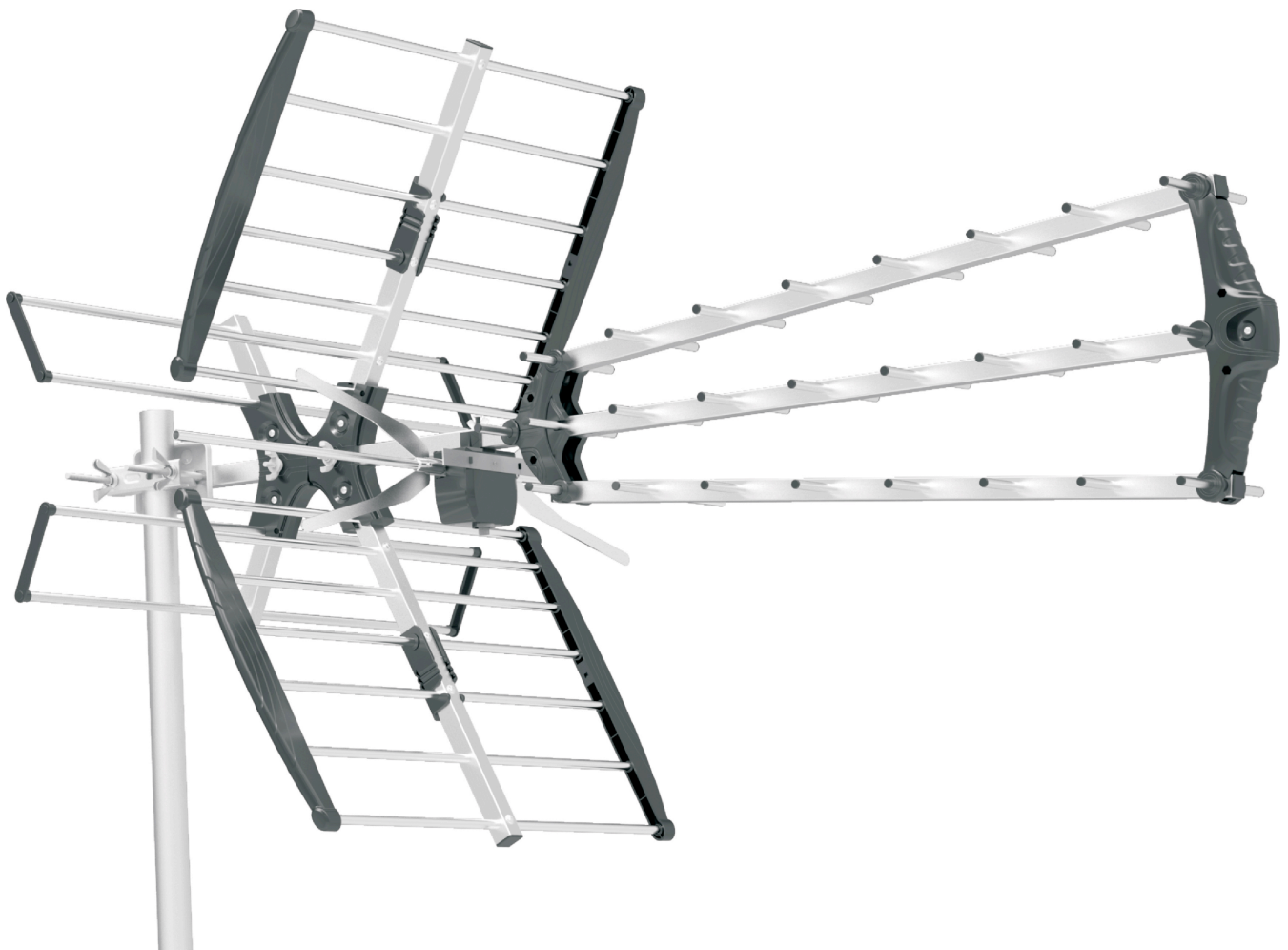




ANTENNA ASSEMBLY & INSTALLATION GUIDE

LONG-RANGE VHF/UHF OUTDOOR ANTENNA – MODEL UV28YLR15



70-MILE RANGE*

* Actual reception range may vary due to weather conditions, geography, electrical interference, and obstructions such as trees or structures.

For customer service, please call (888) 324-3052 or visit AirCastAntennas.com/support

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WATCH FOR WIRES!

WARNING: INSTALLATION OF THIS PRODUCT NEAR POWERLINES IS DANGEROUS. FOR YOUR SAFETY, FOLLOW THE INSTALLATION DIRECTIONS AND PROCEDURES BELOW.

IN THE EVENT OF AN EMERGENCY OR INJURY, CALL 911

Safety Guidelines and Procedures

Listed below are extremely important safety guidelines that are to be followed when installing your antenna. Failure to follow these guidelines can result in death or serious injury.

1. Perform as much antenna assembly on the ground as possible.
2. Watch out for overhead power lines. Check the distance to the power lines before you start installing. **WE RECOMMEND YOU STAY A MINIMUM OF TWICE THE MAXIMUM LENGTH OF THE ANTENNA ASSEMBLY AWAY FROM ALL POWER LINES.**
3. Remember, even the slightest touch of an antenna to a power line can cause a fatal shock.
4. Do not use a metal ladder.
5. Inspect the ladder you plan on using to ensure it is in safe operable condition.
6. Do not position your ladder at an angle steeper than 70°.
7. Do not climb onto a slick, icy, or wet roof.
8. Do not climb on roofs that have curled or worn shingles. (Old shingles break easily or pull out.)
9. Wear season-appropriate attire that is neither too loose or too tight. Always wear rubber-soled shoes with good grip.
10. Wear a pair of durable gloves that also allow normal mobility of your hands.
11. Avoid installations in high areas on windy days
12. Look around your work area to observe for any potential dangers.
13. Have a friend as a spotter when you're on the roof. They can see things you can't.
14. Never climb onto a high location while alone.
15. Avoid installing your antenna underneath tree branches or other overhanging objects.
16. If you start to drop an antenna, move away from it and let it fall.
17. If any part of the antenna should come into contact with a power line **CALL YOUR LOCAL POWER COMPANY! DO NOT TRY TO REMOVE IT YOURSELF!** They will remove it safely.
18. Mast, lead-in, and metal guy wires are excellent conductors of electrical current - - keep them away from power lines too.
19. Be sure your family and friends understand the danger of touching an overhead power line. Tell them never to try to remove any object in contact with a power line (TV antenna, mast or anything else).
20. Make sure that the antenna mast assembly is properly grounded.

For more information, visit www.aircastantennas.com/support.

Please read this user's manual before operating this product. The information contained in this document is subject to change without notice. Features or specifications may be different depending on the type of product model purchased.

Installation Tips

A. USEFUL INSTALLATION TOOLS: A) Large and small blade screwdrivers B) Adjustable Wrench C) Wire Cutters D) Pliers

B. WHERE TO MOUNT YOUR ANTENNA

Your antenna can be mounted on the roof, eve, slanted fascia, chimney, outside wall or in an attic. Choose the method that best suits your location.

C. TRANSMISSION LINE

75 Ohm coaxial cable has a longer life-span than 300 Ohm twinlead cable and is not affected by contact with metal or moisture. To install coaxial cable, begin by connecting the antenna end of the cable to the antenna balun (supplied with antenna or built in to the antenna). Attach the input wires of the balun to the antenna terminals.

D. LIGHTNING PROTECTION

The mast and transmission line should be grounded for lightning protection. Run a #8 (or larger), aluminum or copper wire from a bolt on the mast or its base, down to a 8' ground rod or other approved grounding point. Keep the line at a respectable distance from your transmission wire.

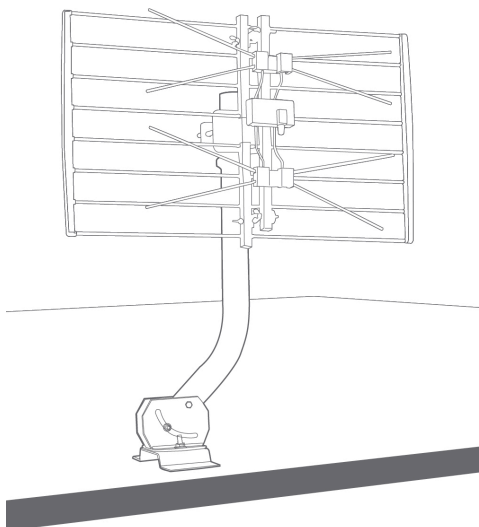
E. AIMING TOWARD A TRANSMITTING STATION

Once the antenna installation is completed, turn your TV set on and have an assistant observe the reception. On the roof, loosen the U-bolt nuts and turn the antenna until you get the best reception. Once this is accomplished, tighten U-bolts nuts securely. For tower locations in your area, visit: www.antennaweb.org

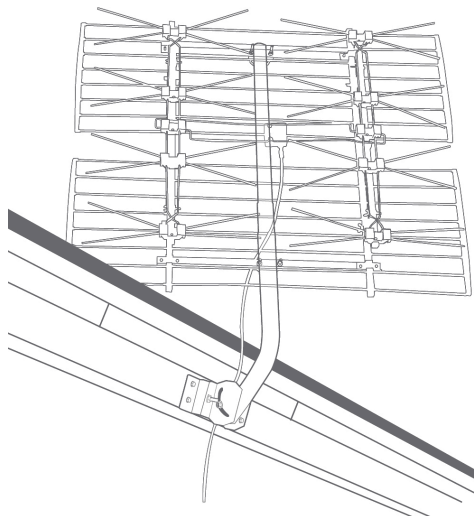
Installation Locations

We recommend installing your antenna using a universal J-Mount (sold separately) in the following locations:

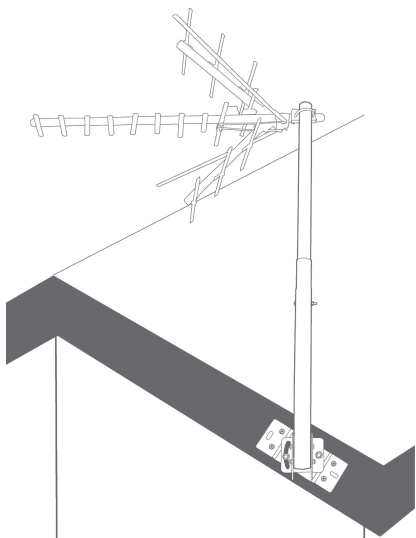
Roof Mount



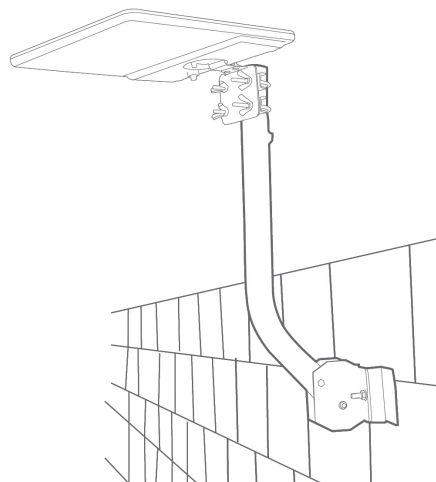
Slanted Fascia Mount



Eve Mount



Wall/Chimney Mount



Grounding Procedure

Mast Grounding

The NEC mandates that the antenna mast and mount be grounded directly. There can be no splices or connections in the ground wire between the mast and the grounding rod. First, attach one end of a No. 8 or No. 10 copper ground wire to the antenna mast. One of the bolts on the antenna mount can be used as a connection point. Masts that are painted or coated can have their coating scraped off on the area where they make contact to the mount. This will ensure a proper connection between the mast and the mount. Next, run the ground wire to the ground as directly as possible. Wire staples can be used to secure the ground wire against the side of a building. Avoid making right angle or sharper turns with the ground wire. Lightning has difficulty making such a turn and therefore may discharge into the building. Make ground wire turns as smooth and as slight as possible. The ground wire must be connected to a grounding rod or other suitable grounding point. Water faucets and/or pipes are not acceptable. A copper-coated steel ground rod driven at least three feet into the ground is recommended. Special clamps that provide a solid connection between the ground wire and grounding rod should be used.

Grounding the Signal Cable

TV antennas and signal cable can accumulate static electrical charges that also increase the chance of lightning strike. To properly dissipate this static electricity, a grounding block should be used. The grounding block is connected to the signal cable at a point close to where the signal cable enters the building (a signal splitter that has a tab for ground on it will also work.) One end of a ground wire is attached to the grounding block. The other end of the wire is connected directly to the grounding rod. An antenna installation is not properly grounded unless both a mast ground and an grounding block are installed correctly.

Warranty Information

This product carries a limited 1-year limited manufacturer warranty. The warranty does not apply if the product has been damaged, and/or malfunctions or fails due to improper installation, misuse, abuse, neglect, accident, tampering, or modification of the product. This warranty does not apply if the product is used in a manner that does not comply with product instructions or in situations resulting from acts of nature, such as damage caused by wind, lightning, ice or corrosive environments such as salt spray and acid rain. Should a failure be determined covered by the warranty, it will be the sole discretion of **AirCast® TV Antennas** to repair or replace the product. This warranty covers the product only, and does not include any additional product or expense incurred. No liability outside the product itself is implied.

Return Authorization Policy

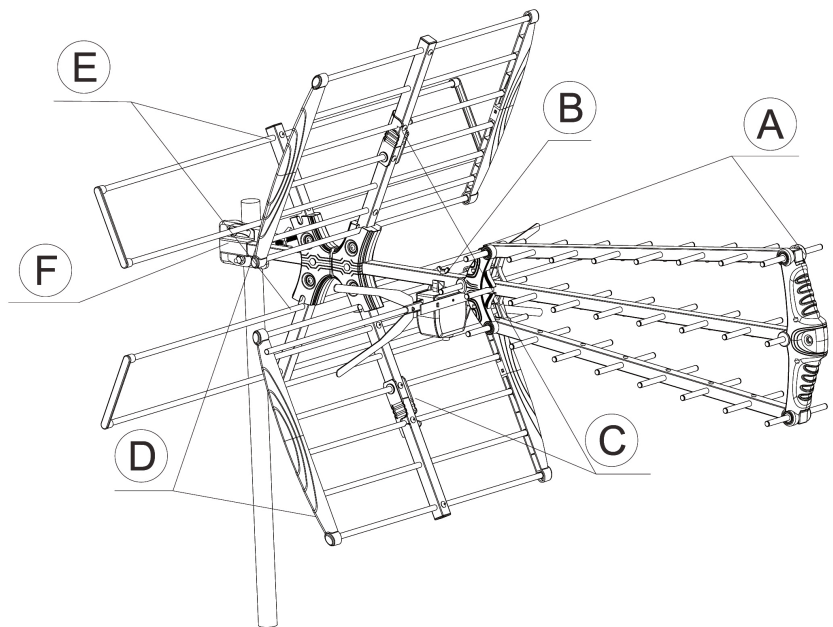
A Return Material Authorization (RMA) is required prior to returning any product to **AirCast® TV Antennas** under this warranty policy. Please call our **Customer Service** at (888) 324-3052 or send an email to service@aircastantennas.com to obtain an RMA number. Enclose the product in a prepaid package and write the RMA number in large, clear numbers on the outside of the package. Shipments without an RMA number(s) will be refused and returned to Customer freight collect.

LONG-RANGE VHF/UHF OUTDOOR ANTENNA – MODEL UV28YLR15

This rugged directional Long-Range VHF/UHF Outdoor Antenna has 28 elements and is engineered to receive VHF-Hi and UHF signals for digital and high definition television broadcasts up to 70 miles from installation. It is ideal in areas where digital broadcasts are on VHF or UHF channels. Its corner yagi design provides exceptional selectivity and gain.

Note: Vertical mast pipe shown is not included

- 70 Mile Range
- LTE filter to reduce or eliminate interference from nearby Wi-Fi, cellular, or radio frequencies
- Triple boom for exceptional signal gain
- Exclusive snap open design for greatly reduced installation time
- Single combined VHF/UHF, 75ohm female "F" connection
- Heavy duty construction with rugged mast clamps and associated hardware
- Overall length: 43.5"
- VHF Frequency range: 170~230MHz
- VHF Max gain: 10dB
- VHF Max front/back ratio: 15dB
- VHF Horizontal beam width: 66° UHF :
- UHF Frequency range: 470~800 MHz
- UHF Max gain: 15dB
- UHF Max front/back ratio: 15dB
- VHF Horizontal beam width: 20°



ASSEMBLY INSTRUCTIONS – MODEL UV28YLR15

