

# WINEGARD® RAYZAR® z1

Amplified Local HD and Digital Broadcast TV antenna  
for VHF & UHF digital and HD TV channels

## Installation Guide

Models RZ-6000 White and RZ-6035 Black



Weight: 2.5 lbs

Dimensions: 16.25" w x 14.7" d x 8.4" h

Manuel disponible en français au  
[www.winegard/support](http://www.winegard/support)

Register your  
product at  
[winegard.com/  
myantenna](http://winegard.com/myantenna)



For help, email [help@winegard.com](mailto:help@winegard.com)  
or call 1-800-788-4417

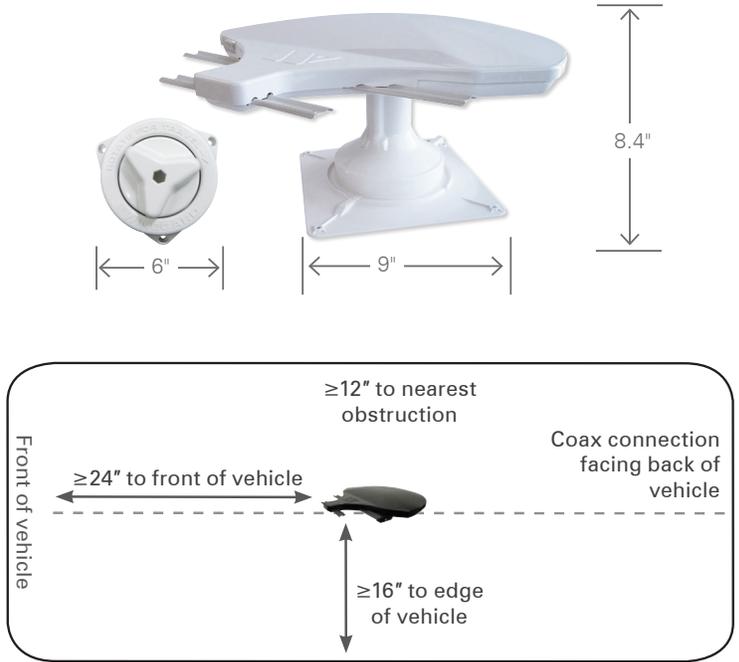
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Rev4 8-17

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# CLEARANCE REQUIREMENTS

The Rayzar z1 antenna requires a minimum roof space of 16.25" for the antenna. The Rayzar z1 antenna should be installed a minimum of 12" from the nearest obstruction and 16" from the edge of the roof.



## WINEGARD MOBILE PRODUCTS LIMITED WARRANTY (5 YEARS PARTS; 1 YEAR LABOR)

Winegard Company warrants this product against defects in materials or workmanship for a period of five (5) years from the date of original purchase. During year one (1) of such warranty, Winegard Company will also pay authorized labor costs to an authorized Winegard dealer to repair or replace defective products. No warranty claim will be honored unless at the time the claim is made, Customer presents proof of purchase to an authorized Winegard dealer (to locate the nearest authorized Winegard dealer, contact Winegard Company, 3000 Kirkwood Street, Burlington, Iowa 52601, Telephone 800-288-8094 or visit [www.winegard.com](http://www.winegard.com)). Customer must provide proof of purchase with a dated sales receipt for the Winegard product to verify the product is under warranty. If the date of purchase cannot be verified, the warranty period shall be considered to begin thirty (30) days after the date of manufacture.

If a defect in material or workmanship is discovered, Customer may take the product to an authorized Winegard dealer for service. Customer must provide proof of purchase to verify the product is under warranty. If the product is brought to an authorized Winegard dealer for service prior to expiration of year one (1) of the warranty period and a defect in material or workmanship is verified by Winegard Technical Services, Winegard Company will cover the Winegard dealer's labor charges for warranty service. The Winegard dealer must contact Winegard Technical Services in advance for pre-approval of the service. Approval of the service is at the sole discretion of Winegard Company.

Alternatively, Customer may ship the product prepaid to Winegard Technical Services (located at 2736 Mt. Pleasant Street, Burlington, Iowa 52601, Telephone 800-788-4417). Customer must return the product along with a brief description of the problem and provide Winegard Technical Services with Customer's name, address, and phone number. Customer must also provide proof of purchase to verify the product is under warranty. If the product is returned before the expiration of the warranty period, Winegard Company will (at its option) either repair or replace the product.

This Limited Warranty does not apply if the product has been damaged, deteriorates, malfunctions or fails from: improper installation, misuse, abuse, neglect, accident, tampering, modification of the product as originally manufactured by Winegard in any manner whatsoever, removing or defacing any serial number, usage not in accordance with product instructions or acts of nature such as damage caused by wind, lightning, ice or corrosive environments such as salt spray and acid rain. This Winegard Product was designed to work within the parameters of radio frequency (RF) spectrum allocation and broadcast technology in effect at the time the product was manufactured. This Limited Warranty does not apply if the product becomes unable to perform its intended function as a result of changes in RF spectrum allocation, changes in television broadcast technology, RF interference, or other factors beyond Winegard's control.

## RETURN AUTHORIZATION POLICY

A Return Material Authorization (RMA) is required prior to returning any product to Winegard Company or Winegard Warranty Services under this warranty policy. Please call our Technical Services Department at 800-788-4417 or send an email to [warranty@winegard.com](mailto:warranty@winegard.com) to obtain the RMA number. Please furnish the date of purchase when requesting an RMA number. Enclose the product in a prepaid package and write the RMA number in large, clear letters on the outside of the package. To avoid confusion or misunderstanding, a shipment(s) without an RMA number(s) or an unauthorized return(s) will be refused and returned to Customer freight collect.

WINEGARD COMPANY DOES NOT ASSUME ANY LIABILITIES FOR ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, MADE BY ANY OTHER PERSON.

ALL OTHER WARRANTIES WHETHER EXPRESS, IMPLIED OR STATUTORY INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY ARE LIMITED TO THE FIVE YEAR PERIOD OF THIS WARRANTY.

In states that do not allow limitations on implied warranties, or the exclusion of limitation of incidental or consequential damages, the above limitations or exclusions do not apply.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion of limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives Customer specific legal rights. Customer may also have other rights that may vary from state to state.

# INSTALLATION

## Choosing a Location for the Antenna

### INSTALL IN DRY CONDITIONS ONLY!

Before choosing a location for the antenna, contact your RV dealer or manufacturer. Your RV may be pre-wired or have a reinforced area for this system.

Keep in mind that the antenna must be mounted on or parallel to the center line of the RV, and must be oriented so the arrow indicating **"FRONT"** on the base is pointing toward the front of the RV.

Choose a location on the roof of the RV that meets the following requirements:

- a) Offers enough support for a secure installation
- b) Has a minimum roof space (clearance) of 16.25" x 14.7"
- c) Enables the antenna rotate without interference from other roof-mounted equipment
  - clearance distance of 24" from antenna to the front of the vehicle
  - clearance radius of 22" for antenna to rotate.
  - clearance distance of 16" to the edge of the roof
  - clearance distance of 12" from all sides of the antenna to the nearest obstruction
- d) Is within five degrees of level (or for best operation, must be within three degrees of level)
- e) A coaxial cable will have to run from the power supply to the antenna and from the power supply to each television. There are two options for connecting the coaxial cable to the antenna.

#### Option 1

- The coaxial cable enters the RV directly beneath the antenna under the base enclosure.

#### Option 2

- The coaxial cable routes through the coax channel and enters the vehicle through a cable entry plate (sold separately).

**Make sure the chosen location meets all of these requirements before installing the antenna.** Refer to the diagram on opposite page.

# INSTALLING THE ANTENNA

1. After choosing a location for the antenna, ensure that the ceiling area is clear underneath the chosen location. The interior rotating handle will be mounted inside the vehicle directly underneath the mounting bracket.
2. Once a location is verified, drill a 1 3/4" hole through the center of the area. **Be careful not to damage any wiring** between the roof and the ceiling when drilling.
3. After the hole has been drilled, confirm how the coax cable will enter the RV after connected to the antenna. There are two available options: the coax cable can either run beneath the antenna directly into the vehicle or can be routed through the coax channel to enter the vehicle through a cable entry plate at a separate location (cable entry plate sold separately).
4. Once a coax location has been chosen, place the antenna on the roof and align to trace around the base. Ensure the arrow denoting **"FRONT"** is facing the front of the vehicle and that the center extension on the bottom of the base is seated in the 1 3/4" hole. Once the antenna is positioned correctly, trace around the base.

The diagram shows a white, circular antenna base with a central extension. An arrow points upwards from the base, labeled 'Point to front of vehicle'. The base is shown from a top-down perspective, highlighting the central hole and the surrounding mounting area.
5. Check with your vehicle manufacturer to determine if the provided mounting screws are suitable for mounting the antenna base to the roof.
6. Apply a liberal amount of approved non-hardening sealing compound to the inside of the traced line.
7. Before securing the antenna to the roof, ensure the vehicle coax cable is connected to the mini-coax cable under the antenna head. If routing the coax through the coax channel, ensure the cable is routed as well. Use a knife or utility tool to punch out the end of the coax channel to allow for proper routing.
8. Place the antenna in the chosen location, ensuring that the base lines up with the previously traced line and the center extension on the bottom of the base is fully seated in the 1 3/4" hole cut in the roof. Once the antenna is placed, secure it to the roof using the included mounting screws. Once secured, run a solid bead of sealant over the mounting screws to help prevent leaks. If running the coax through the coax channel, ensure to seal around the cable at the channel exit as well.

## CUTTING THE EXTRUSION TO FIT THE ROOF THICKNESS

There are two methods to determining what the proper length to cut the extrusion to fit the roof is. The extrusion is designed to fit roofs up to 6 1/2" thick. If the roof is more than 6 1/2" thick, contact Winegard Technical Services at 800-788-4417 for further assistance.

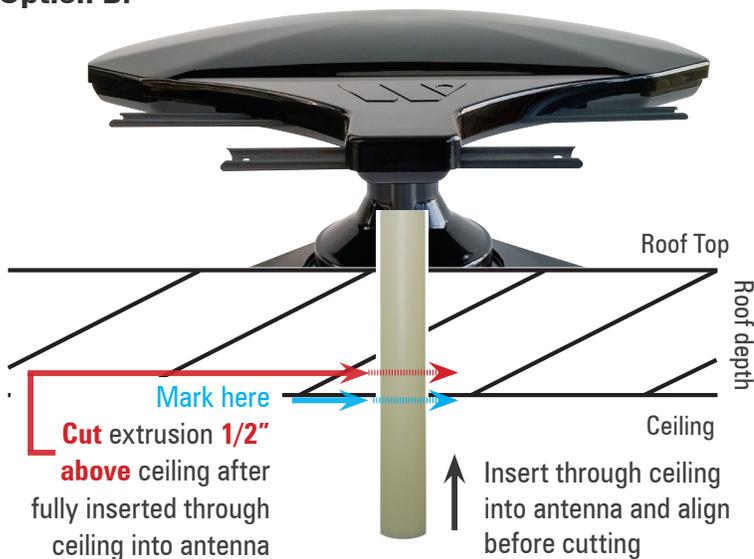
### Option A

1. Determine the roof thickness by measuring or contacting your RV manufacturer.
2. Add 3/4" to the roof thickness measurement and cut the extrusion to this overall length.

### Option B

1. From the inside of the vehicle, insert the extrusion into the 1 3/4" hole through the roof, carefully rotating to align the keys inside the extrusion with the bottom of the antenna.
2. Once the keys are lined up, push up until the extrusion bottoms out on the antenna and cannot move any further up. To ensure proper engagement, twist extrusion and confirm roof antenna is rotating.
3. With the extrusion bottomed out on the antenna, mark the extrusion at the ceiling.
4. Remove the extrusion and add 1/2" above the mark. Be careful not to flip the extrusion before adding or cutting. See figure below. The extrusion should extend above the ceiling by 1/2".

### Option B:



## INSTALLING INTERIOR HARDWARE

After the extrusion is cut to length, install the handle assembly in the order shown in figure below.

