



# MARINE AMPLIFIED OMNIDIRECTIONAL OUTDOOR HDTV ANTENNA BY WINEGARD®

## **IMPORTANT NOTE!**

**DO NOT** ATTACH THE ANTENNA HEAD TO THE ATTACHMENT TUBE BEFORE READING THIS MANUAL! ONCE THE HEAD AND PEDESTAL ARE CONNECTED, THE HEAD CANNOT BE REMOVED WITHOUT INCURRING DAMAGE. INSTALLATION CANNOT BE COMPLETED IF THE ANTENNA HEAD AND BASE ARE CONNECTED BEFORE RUNNING CABLE.



**WARNING!** TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THE POWER SUPPLY TO RAIN OR MOISTURE.



**STOP!** Before beginning assembly and installation, decide where you want to mount the antenna, which mounting type you will use and where you will mount the power supply so you can run cable out from it to one or more TVs and also attach the power supply to the antenna. The power supply will also have to be connected to 12V power source.

**WARNING!** This antenna is designed to be used directly with a television. Operators should consult the original equipment manufacturers manuals for installation and operation of television and associated accessories and should never watch or use television equipment when the boat is being operated or in motion.

**IMPORTANT!** Remember to run a channel scan after installing the antenna!  
To receive maximum programming, run a channel scan anytime the antenna is moved.

## SPECIFICATIONS

Antenna Type: Amplified  
Range: Up to 35 miles\*  
Type: VHF and UHF channels  
For Outdoor use Only  
Omnidirectional  
VHF/UHF/FM Antenna  
Unit Weight: 2.11 lbs.  
Antenna Head Diameter: 14.9"  
Height of Antenna: 7.25"  
Power required: +12VDC at 85mA

\*Antenna reception may vary depending on the height of the transmitting tower, lobe pattern of the transmitter, height of the receiving antenna, weather conditions, and any obstructions to the signal path.

## INCLUDED COMPONENTS

Antenna Head	Circular Gasket
Attachment Tube	O-ring
Wall Plate/Power Supply	Hexagonal Nut
Pedestal Top and Bottom	Star Washer
Surface Mount Box	Twist On F-Connector (4)
5' Power Coaxial Cable	Insulated Terminal (2)
30' RG-59 Coaxial Cable	#6x3/4" Screw (2)
	#6x1/2" Screw (2)

## REPLACEMENT PARTS

Replacement head available by separate order.

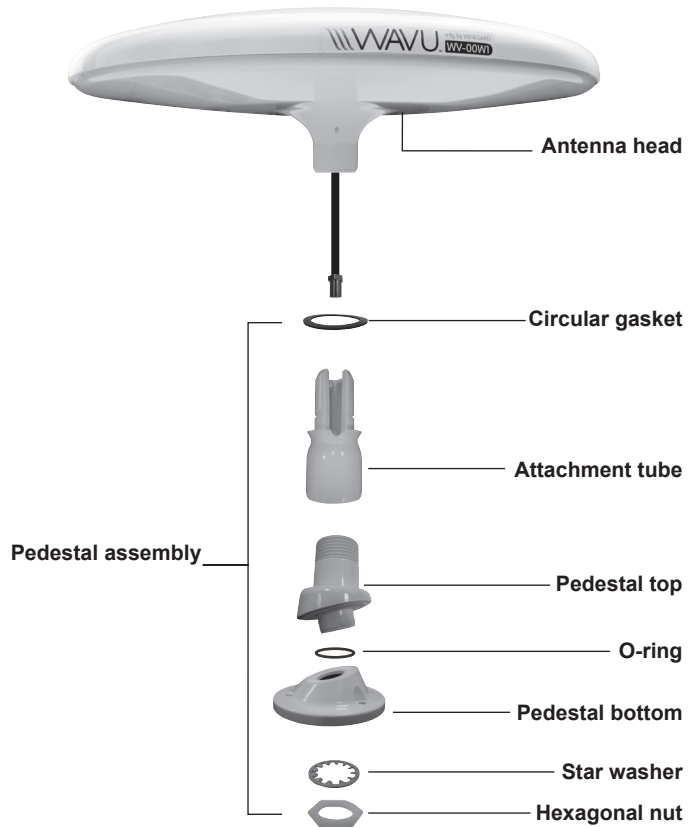
Replacement power supply available by separate order.

## FOR YOUR SAFETY



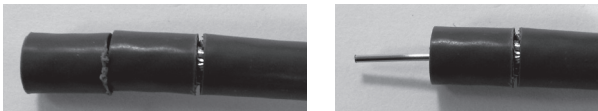
Do not install this system in rainy or wet conditions. DO NOT PAINT this antenna. Painting antenna will void antenna warranty.

## ANTENNA PARTS BREAKDOWN

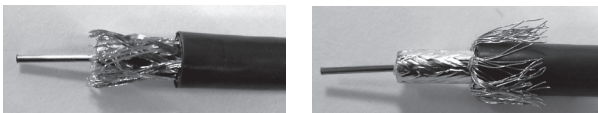


## INSTALLING SCREW-TYPE CONNECTORS

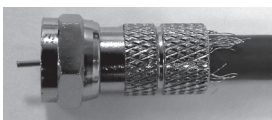
STEP 1. Strip off about 1/2" of the cable jacket.



STEP 2. Trim braid close to outer cover and remove 1/4"\* of inner insulation **being careful not to nick center conductor**. Make sure no foil or braid can touch center conductor.



STEP 3. Screw F-Connector onto cable end until center conductor extends about 1/8" past the end of the connector.



If installing in very hot weather, increase these dimensions 1/8".

Wall plate/power supply



5' Power cable



30' RG-59 Coaxial cable



Surface mount box



Twist-on F-Connector (4)



Insulated Terminal (2)



#6 x 3/4" Screw (2)



#6 x 1/2" Screw (2)



## CHOOSING A LOCATION FOR THE ANTENNA AND POWER SUPPLY

**Before antenna installation, determine a location for the wall plate/power supply. Keep these things in mind:**

- A coaxial cable will have to run from the power supply to the antenna and from the power supply to each television.
- A 12VDC connection must be made to the back of the power supply.
- Refer to the diagram on page 6 for more information on connecting to the power supply.
- Be sure the location you have chosen for the antenna provides enough support for a secure installation.

**IMPORTANT:** You must maintain an adequate clearance of at least 18" from the center of the antenna to any obstruction.

**NOTE:** The mount is designed to accommodate a slanted surface from 0-30 degrees if desired.

## CHOOSING A MOUNTING OPTION

**OPTION 1 - CABLE IS ROUTED DIRECTLY UP THROUGH THE ROOF OR THROUGH OUTSIDE WALL THROUGH THE MOUNTING BASE OF THE ANTENNA.**

If you decide to route the cable up through the base, assemble the antenna using the steps in the next column, then proceed to Mounting Option 1, page 4.



**OPTION 2 - CABLE IS ROUTED UP THROUGH THE ROOF OR SIDE WALL THROUGH A CABLE ENTRY PLATE (SOLD SEPARATELY) AND ROUTED OUT THE SIDE OF THE ANTENNA.**

If you decide to route the cable out the side of the antenna, assemble the pedestal using the steps in the next column, then proceed to Mounting Option 2, pg 5.



## ASSEMBLING THE PEDESTAL

**STEP 1.** Place the O-ring over the threads on the short end of the pedestal top. Make sure the O-ring fits snugly into the groove.



**STEP 2.** Attach the pedestal top and bottom together, making sure to line up the slanted pieces so the antenna will be horizontal when mounted.



**STEP 3.** Install the star washer on the underside of the pedestal bottom. Loosely thread the hexagonal nut onto the underside of the pedestal bottom. Check to see that the pedestal top is still at the desired angle. If installing on a slanted surface, make sure the pedestal top is in vertical position. Tighten hexagonal nut until it is flush with the threaded end of the pedestal bottom. Finally, tighten a half turn more.



Can be adjusted to mount on a slant up to 30° - Must keep adjustment tube at 90°.



**STEP 4.** Carefully thread the attachment tube onto the top of the pedestal.





## MOUNTING THE ANTENNA, OPTION 1

STEP 1. Place the circular gasket on the attachment tube.



STEP 2. Route coaxial cable from the location of the power supply to the location of the antenna.



STEP 3. Connect the coaxial cable (coming up through the base) with the mini-coaxial cable running down from the antenna head.



STEP 4. Mount the pedestal for the antenna. Check with the vehicle manufacturer for any screw requirements and for approved sealant for your boat. Apply a liberal amount of sealant around the base of the antenna and over screw heads.

STEP 5. Carefully pull the cable slack downward through the pedestal assembly.



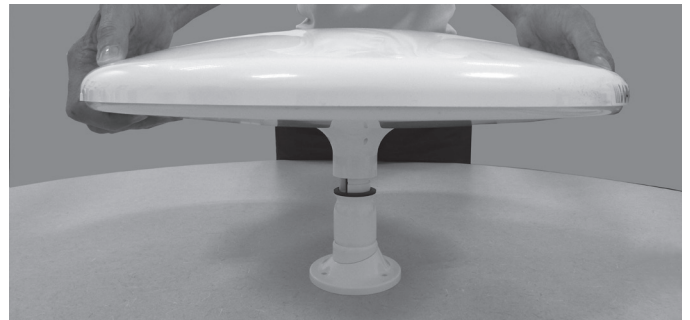
## MOUNTING THE ANTENNA, OPTION 1

### IMPORTANT!

STEP 6. Align the guide mark on the antenna head with the same groove on the attachment tube.



STEP 7. Push the antenna head down until the head locks into place.



**WARNING!** Once the antenna head and pedestal are connected, the head cannot be removed without incurring damage.



STEP 8. Lightly pull the antenna head upward. If the head does not slide up on the pedestal, the head is fully seated. If the head slides upward, repeat steps 5 to 8 and connect the head to the pedestal.

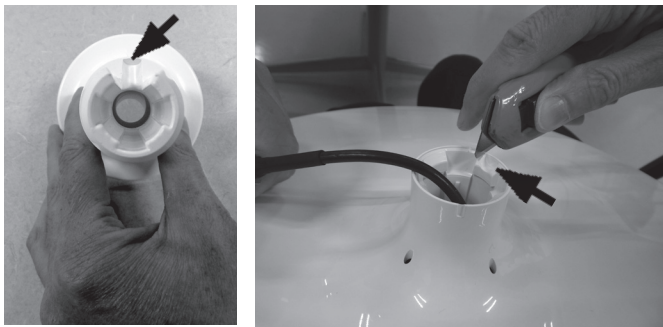
**DO NOT PROCEED** until the head is fully seated. Then, continue with Installing the Power Supply.

## MOUNTING THE ANTENNA USING CABLE ENTRY PLATE, OPTION 2

STEP 1. Decide on a location for the cable entry plate (sold separately). Drill hole and install cable entry plate on roof. Check with the boat manufacturer for any screw requirements and for approved sealant for your boat. Apply a liberal amount of sealant around the base of the pedestal mount and over screw heads.

STEP 2. Route coaxial cable from the power supply running out through the cable entry plate to the antenna.

STEP 3. Cut out the notch in the attachment tube and the one in the antenna.



STEP 4. Mount the pedestal to the boat with three screws (not provided). Check with the boat manufacturer for any screw requirements and for approved sealant for your boat. Apply a liberal amount of sealant around the base of the pedestal mount and over screw heads.

STEP 5. Place the circular gasket on the attachment tube.



STEP 6. Connect the cable from the power supply to the mini coax cable from the antenna head.

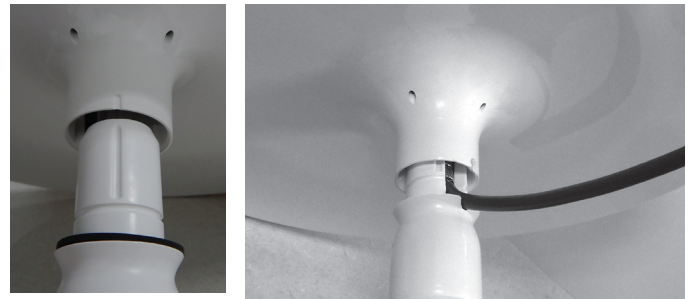


## MOUNTING THE ANTENNA, OPTION 2

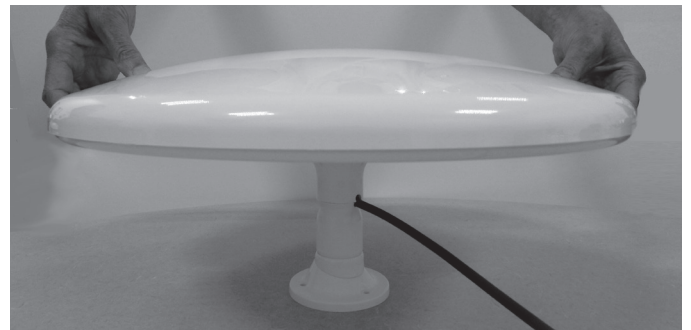
STEP 7. Carefully push the coax cable back into the antenna head until the connection is inside the antenna head.



STEP 8. Align the guide mark on the antenna head with the small groove on the attachment tube that is farthest away from the slot. **Ensure the coax seats in the cut out slots and exits the antenna out the side of the attachment tube.**



STEP 9. Gently push the antenna head down until the head locks into place.

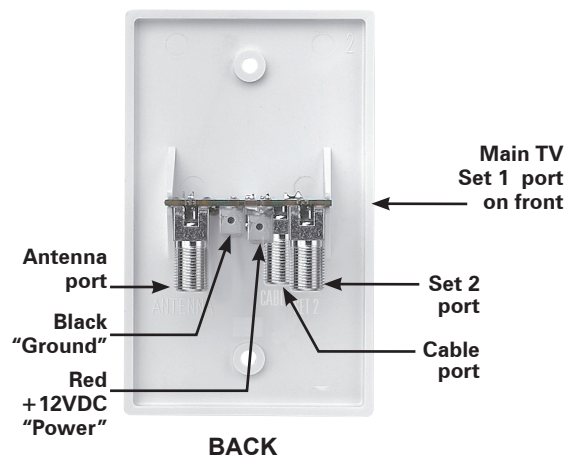
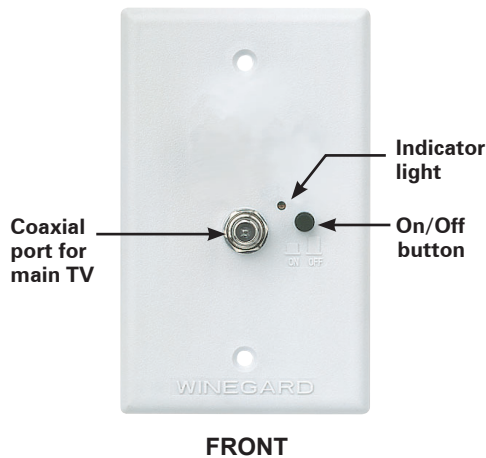


**WARNING! Once the head and pedestal are connected, the head cannot be removed without incurring damage.**

STEP 10. Lightly pull the antenna head upward. If the head does not slide up on the pedestal, the head is fully seated. If the head slides upward, repeat steps 5 through 9 and connect the head to the pedestal. If correctly installed, seal the notch where the coax exits the antenna with approved sealant.

**DO NOT PROCEED until the head is fully seated. Then, continue with Installing the Wall Plate/Power Supply.**

## INSTALLING THE WALL PLATE/POWER SUPPLY



**WARNING: THE POWER SUPPLY SHOULD BE TURNED OFF AND NOT CONNECTED TO THE BOAT'S POWER SOURCE UNTIL ALL CONNECTIONS HAVE BEEN MADE TO THE POWER SUPPLY.**

The power supply may be surface or flush mounted. This wall plate power supply will fit in most standard electrical boxes. Run two #12 wires between the wall plate and +12VDC source, and route download coaxial cable from antenna to this location.

Make a 12 volt connection to the power supply. Install the supplied terminals on wires from +12VDC source, and crimp the terminals with an appropriate crimping tool. Push the wires onto tabs on the back of the power supply. **Red** wire (+) power, **black** wire (-) ground. ("PWR" and "GND" are also noted on the underside of the power supply electronics board.)

Connect the coax cable from the antenna to the "ANTENNA" port on the back of the power supply, and tighten until finger tight. Then, tighten ¼ turn more.

If hooking up the antenna to two televisions, connect a coax cable from the "SET 2" port on back of power supply to the "Antenna In" port on the second television.

If hooking up a cable input, connect the cable input to the "CABLE" port on the back of the power supply.

Mount the power supply in/on wall with the provided screws.

Connect a coax cable from the coax port on the front of the power supply to the "Antenna In" coax port on the main TV.

Connect power cable to the power source.

Press the "ON" switch on the front of the power supply, and check that the light is on. (This unit is equipped with a polyswitch, which will shut down +12VDC if there is a direct short between the antenna and power supply. The indicator light will not light. Once the short is eliminated, the device will reset itself).

## RUNNING CHANNEL SCAN

**First time users must run a channel scan after installing the antenna to receive maximum programming. For best results, a channel scan should be done every time you move your boat.**

A new scan will find any new channels that have been added in your area as well as finding any channels that have changed or moved since the last scan. While the steps to perform a channel scan may vary between TVs or comparable devices, the following guidelines apply in most cases. For more specific instructions, refer to your device user manual for help.

## HOW TO RUN CHANNEL SCAN

1. Using the remote that came with your TV or other comparable device, select **MENU**. Then select **SETTINGS**.
2. Select **CHANNEL SET UP**.
3. Select **ANTENNA** or **OFF-AIR MODE** or **AUTO-SCAN** depending on your TV. Make sure you are not on CABLE.
4. Select **CHANNEL SEARCH** or **CHANNEL SCAN**.

## ABOUT YOUR WAVU ANTENNA

If you have trouble receiving a signal, move the antenna to a different location and run Channel Scan again. A few feet can make a difference. The less obstructions and the higher the antenna is mounted, the better the chance of receiving a strong signal.

The WAVU antenna is capable of receiving all available local programming. The number of channels will vary from location to location. Generally, the closer you are to a metro area, the more channels you'll receive.

Local programming received through the WAVU antenna is free. Since the antenna is amplified, the signal may be split between multiple TVs.



# TROUBLESHOOTING

DO NOT INSTALL COUPLERS, SPLITTERS, ETC. BETWEEN THE POWER SUPPLY AND THE ANTENNA.

**IMPORTANT NOTE:** BE SURE TO TURN THE POWER SUPPLY OFF WHEN CONNECTING/ DISCONNECTING CABLES TO THE POWER SUPPLY AND ANTENNA. POWER SUPPLY SHOULD BE TURNED ON WHEN CHECKING FOR VOLTAGE.

## CHECK COMPONENTS

Make sure your TV is working properly. Coaxial cable from power supply should be connected to TV jack marked "Antenna In".

## DO YOU HAVE POWER GOING TO THE POWER SUPPLY?

Visually inspect the power supply. Check to be sure there is 12VDC going to the POWER SUPPLY by connecting a voltmeter between the line and the chassis of the power supply. If you have no power, repair the power source. If you do have power, check the power supply.

## DO YOU HAVE POWER COMING OUT OF THE POWER SUPPLY?

Disconnect the antenna cable at the power supply. Connect a volt meter to the Antenna port jack center conductor on the power supply. If you have no power, replace the power supply. If you do have power, the trouble is either in the antenna cable or in the antenna head. Because the connection of the cable to the mini-coax cable is inside the antenna, you will not be able to test the antenna head or the cable. If the system does not work, replace the antenna head or refer repair to service personnel.

**IMPORTANT NOTE: OPENING THE ANTENNA HEAD OR ALTERING THE POWER SUPPLY WILL VOID THE WARRANTY!**

**There are NO user serviceable parts in the power supply or the antenna head. For further assistance, contact Winegard Technical Services, 1-800-788-4417.**

**This manual is available in Spanish online.  
Visit [www.winegard.com/wavu](http://www.winegard.com/wavu).**

## **WINEGARD COMPANY ONE YEAR LIMITED WARRANTY**

Winegard Company provides a warranty to the original purchaser of new Winegard Products against proven defects in materials or workmanship for a period of one (1) year from date of purchase, subject to the terms herein. If a Product covered under this warranty is determined to be defective within the warranty period, Winegard will, unless otherwise required by applicable law, either repair or exchange the Product at its sole discretion. This Warranty is non-transferable, and does not cover products purchased, services or used outside the United States or Canada. This Warranty does not extend to the elimination of externally generated static or noises, or use of the products in a location without sufficient signal strength.

### **How to Obtain Warranty Service (Pre-authorization is required)**

To obtain warranty service, contact Winegard Company Technical Support via email: [help@winegard.com](mailto:help@winegard.com) or via phone at 800-788-4417 from 7:30 AM to 5:30 PM Monday through Friday and 8:00 AM to 3:30 PM Saturday, Central Standard Time, or visit [www.winegard.com](http://www.winegard.com). PRE-AUTHORIZATION MUST BE OBTAINED BEFORE SENDING ANY PRODUCT TO WINEGARD. Proof of purchase in the form of a purchase receipt or copy thereof is required to show that a Product is within the warranty period.

Winegard Company will (at its option) repair or replace the defective product at no charge to you. This warranty does not cover any costs incurred in removal or reinstallation of the product. This limited warranty does not apply if the product is damaged, deteriorates, malfunctions or fails from: misuse, improper installation, abuse, neglect, accident, tampering, modification of the product as originally manufactured by Winegard Company, usage not in accordance with product instructions or acts of nature such as damage caused by wind, lightning, ice or corrosive environments.

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

THE FOREGOING WARRANTY SHALL BE THE SOLE AND EXCLUSIVE REMEDY OF ANY PERSON, WHETHER IN CONTRACT, TORT OR OTHERWISE, AND WINEGARD COMPANY SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGE OR COMMERCIAL LOSS, OR FROM ANY OTHER LOSS OR DAMAGE EXCEPT AS SET FORTH ABOVE. ANY ACTION FOR ANY BREACH OF WARRANTY HEREUNDER MUST BE BROUGHT WITHIN TWENTY-FOUR (24) MONTHS FROM THE DATE OF ORIGINAL PURCHASE. IN NO EVENT SHALL WINEGARD COMPANY'S LIABILITY HEREUNDER EXCEED THE PURCHASE PRICE PAID FOR THE PRODUCT.

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 you specific legal rights and you may also have other rights which vary from state to state.

**FOR TECHNICAL SERVICES  
CALL 1-800-788-4417 OR EMAIL  
[help@winegard.com](mailto:help@winegard.com)**



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