

WINEGARD® AIR™ 360 PLUS 5G

Model - AR2-5G1



INSTALLATION & OPERATION MANUAL

OMNIDIRECTIONAL HDTV/FM ANTENNA
WIFI EXTENDER + 5G ROUTER*

Long range WiFi + 5G/4G antennas activated
by compatible Winegard Gateway 5G*

*PREPPED FOR



5G/WIFI

*with Gateway 5G
(sold separately)*



GPS

*with Gateway 5G
(sold separately)*



SATELLITE TV

(sold separately)



TM

WINEGARD®

Welcome

Thank you for purchasing the Winegard® Air™ 360 Plus 5G and trusting Winegard to bring the latest connectivity solutions to you while on the go. This product, combined with the Winegard® Gateway™ 5G will provide you more freedom when choosing where to adventure, all while bringing the comforts of TV and secure internet to you and your devices. Before installing or operating please read these instructions completely and carefully. Failure to follow these instructions could cause damage to the product and/or RV. If you have any questions or need help, email help@winegard.com or call 1-800-288-8094.

Contents

Welcome	1
Contents	1
Specifications	2
What's In The Box.....	3
Product Information	4
Installation Instructions	5
TV Antenna Operation	11
Troubleshooting	13
Approved Winegard Satellite Antennas	14
Warranty Statement.....	15

Disclaimer

Although every effort has been made to ensure that the information in this manual is correct and complete, no company shall be held liable for any errors or omissions in this manual. Changes and technological advances are continuously being made in the over-the-air and wireless market. Information provided in this manual was accurate at time of printing. If the Winegard Air 360 Plus 5G or Gateway 5G do not function as expected, please contact Winegard Company at 1-800-288-8094, email help@winegard.com, or visit our website at www.winegard.com.

Specifications

- Designed for RV use
 - Durable UV and weather resistant
 - 360° Signal Reception
 - High Definition VHF/UHF Digital Signals
 - ATSC 3.0 Ready
 - Amplified
 - State of the art pHEMT technology with 4G LTE Filter
 - Range – Up to 55 miles*
 - Height – 7.73.”
 - Diameter of dome – 17.25”
 - Frequency Range:
 - VHF 54 to 216 MHz
 - UHF 470 to 700 MHz
 - FM 87.5-108 MHz
 - Gain – 18 dB
 - Noise – 1 dB
 - Impedance – 75 ohms
 - Power Supply – DC 12V
 - (1) WiFi antenna**
 - (4) 5G/4G LTE antennas**
- ** For use with the Winegard Gateway or Gateway 5G



*Antenna mileage figures based on average terrain. Actual receiving distance will vary based on transmitting power, transmitting antenna tower height, global pattern of transmitter, height of receiving antenna, weather conditions, & terrain between receiving path including trees, buildings, hills, mountains, etc.

What's In the Box



Dome



Winegard antenna power supply/ wall plate w/ hardware

Mounting screw (10)



Prewire hole cover



Gateway Power switch into wall plate

Wall plate screw (2)

Barrel crimp splice

Terminal insulator (2)



10' Power cable



20' Coax cable



Coax to audio cable

Cable tie (1) not shown



Installation Tools Needed (not included) – butyl tape, scissors, hole saw, drill, Phillips screwdriver, crimping tool, 12 AWG and 18AWG power wire, wire strippers.

Product Information

Once installed, the Winegard Air 360 Plus 5G system will bring in local, high definition, over-the-air broadcast television. It has also been specifically designed to work with the Winegard Gateway 5G as a WiFi extender and 5G/4G LTE router. It is not intended to work with any other router system.

The Air 360 Plus 5G is designed for RVs with a roof-radius of 230 inches to flat and with a maximum 7-inch roof thickness. It can replace another TV antenna and utilize the coax cable that has already been installed. If doing this, ensure the coax runs from the Winegard antenna to the Winegard wall plate/power supply.

The Air 360 Plus 5G must be installed first before attempting to install the Gateway 5G. Before installing, verify 5 WiFi/5G antenna cables, from the Air 360 Plus 5G, can reach the connection points on the Gateway 5G router, inside the RV.

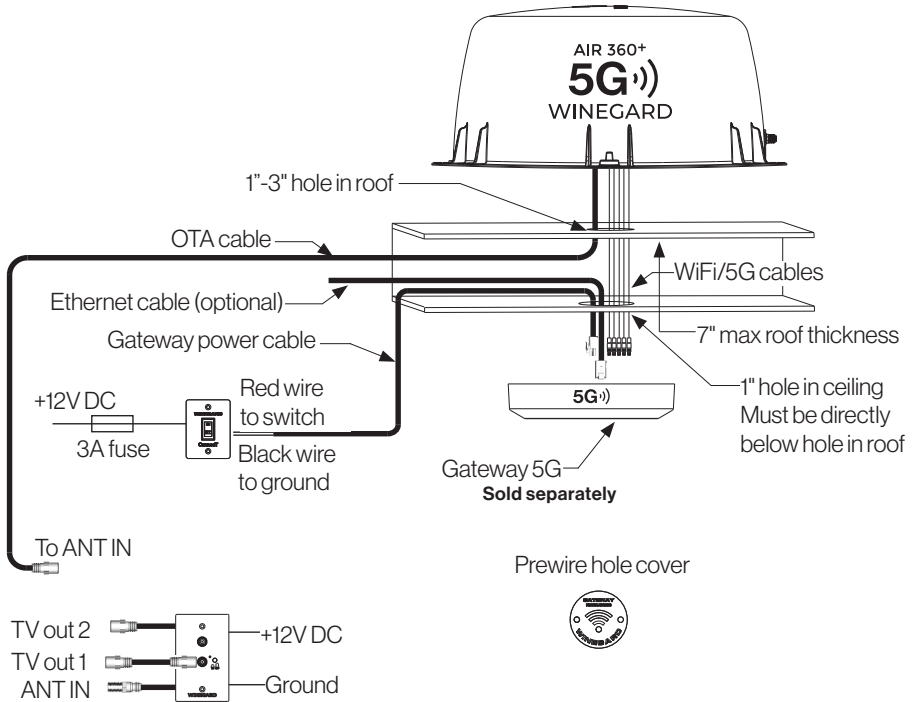
The Winegard Gateway 5G must be installed on the ceiling of the RV, directly below the Air 360 Plus 5G. A +12V power cable must be ran to this location from the Gateway 5G power switch.

Installation Instructions

Safety Recommendations

Do not attempt to install this system in the rain or under any wet conditions.

Do not paint this antenna. Painting the antenna will void the warranty.



Before mounting the antenna, determine locations for both the TV antenna wall plate/power supply and Gateway 5G wall plate/power supply. Keep in mind the following:

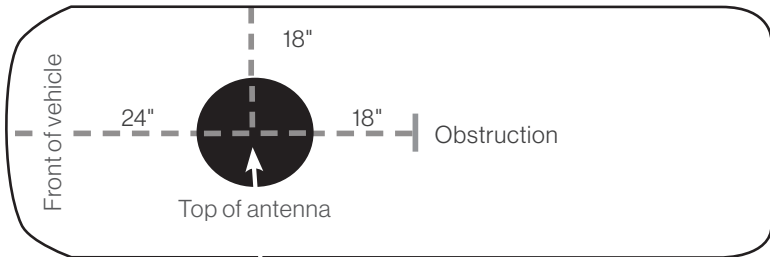
- Coaxial cables will have to run from the HDTV wall plate/power supply to the antenna and from the wall plate to each television.
- If using the Air 360 Plus 5G to receive FM stations, an additional coax cable (not provided) will have to run from the wall plate (TV OUT 1 or 2) to the coax to audio cable (provided) and into the radio.
- Coax cables will have to be routed through the roof, directly under the perimeter of the antenna. It will not seal correctly for the cables to exit under the flange. Failure to install correctly could cause damage to the antenna and possibly the RV.

Installation Instructions cont.

- A +12V connection must be made to the back of both power supplies.
- The Winegard Gateway 5G can always be installed later, however it is recommended to run the power cable to the intended mounting location of the Gateway 5G router.

Choose a location for the antenna that meets the following requirements:

- Offers enough support for a secure installation
- Maintains adequate clearance from the edge of the roof and any obstructions:
 - clearance distance of 24 inches needed from center of antenna to front of the vehicle.
 - clearance distance of 18 inches needed from center of antenna to nearest obstruction and to the edge of the roof.



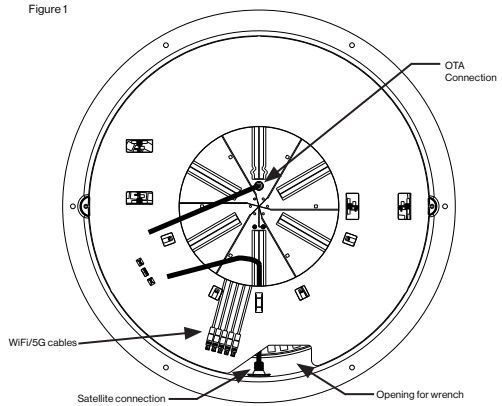
* Over-The-Air Antennas can be impacted by obstructions. For best performance, install the antenna as far away from any obstructions as possible.

Installation Instructions cont.

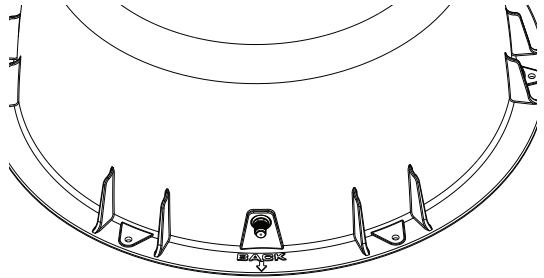
Step 1 – After selecting a spot on the vehicle for the antenna, drill a 1–3-inch hole in the roof (DO NOT seal this hole) and directly below drill a 1-inch hole in the ceiling of the RV.

The ceiling hole must not be greater than 1 inch. Otherwise, the prewire hole cover will not install.

Step 2 – Next, connect the provided 20' coax cable to the over-the-air (OTA) connection under the dome. If replacing an existing antenna, connect the coax cable that is already installed to the OTA connection under the dome. Ensure that the connection is finger tight. Connect another coax cable (not provided) to the domed satellite connection inside the dome. Use a wrench to tighten the connection in the opening provided (figure 1). Feed both coax cables in the hole of the roof and route to the correct location of the TV wall plate/power supply (OTA coax) and satellite receiver location (satellite coax).



Step 3 – Feed the other 5 cables (WiFi and 5G) down into the roof hole and through the ceiling of the RV. While ensuring the cables stay in the hole of the RV, position the dome so that the domed satellite F-Jack connection is facing the rear of the vehicle (figure 2).



Step 4 – It is recommended to use butyl tape (not provided) for extra protection under the entire flange before screwing to the roof. Screw 6 approved mounting screws* into the 6 mounting holes around the flange and into the roof of the RV.

*Note: Before installing check with the vehicle manufacturer on approved screws.

Step 5 – Add approved sealant (check with RV manufacturer) completely around the flanged base and over each screw.

CAUTION: Do not overtighten the mounting screws. This could cause the plastic flange to break.

Installation Instructions cont.

>If planning to install the Winegard Gateway now or at a later time:

Step 6 – Run the 10' Gateway power cable from the hole where the five antenna cables (yellow(2), green(2), and red) enter the ceiling of the RV to the predetermined location of the Gateway wall plate/power supply. The white connector of this power cable should be at the same location as the yellow, green, and red connectors. The Winegard Gateway will use this power cable. The bare wires of this power cable should be routed to where the Gateway power switch will be installed.

Step 7 – (OPTIONAL) An ethernet cable can be run to the Gateway if hooking to directly to an ethernet-enabled device, such as a smart TV. This will provide better speed, lower latency, and a more reliable connection.

> If installing the Winegard Gateway 5G now, please review the Winegard Gateway 5G installation manual followed by reviewing the Power Supply Installation on page 10 of this manual.

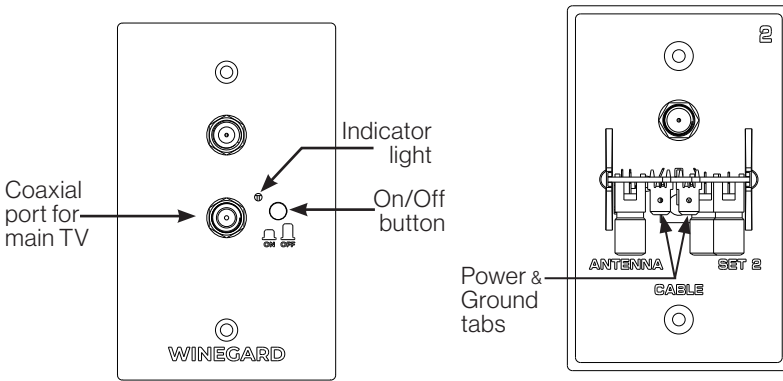
> If installing the Gateway later continue to Step 8.

Step 8 – Lastly, zip tie the prewire power cable along with the 5G LTE and WiFi cables to the notch on the backside of the white prewire hole cover. Cut the excess length of the zip tie off and make sure all the cables are tucked inside the ceiling before screwing the white prewire hole cover to the ceiling with the 2 provided screws.

Power Supply Installation – TV Antenna



WARNING: The power supply should be turned off when connecting cables.



Step 1 – The power supply may be flush mounted in most standard electrical boxes. To flush mount, cut a hole in the wall to fit the box. Run two #12 wires between the wall plate and +12 VDC source, and route download cable to this location.

Step 2 – Make a 12-volt connection from the RV to the power supply. Install the supplied terminals on wires from +12 VDC source and crimp the terminals with an appropriate crimping tool.

Step 3 – Push the wires onto tabs on the back of the power supply. (“PWR” and “GND” are also noted on the underside of the power supply electronics board).

Step 4 – Connect the coax cable from the antenna to the “ANTENNA” port on the power supply and tighten until finger tight. Then, tighten ¼ turn more.

Step 5 – If hooking up the antenna to two televisions, connect a coax cable from the “SET 2” port 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 power supply.

Step 6 – Connect the coax cable from the satellite connection from the antenna to the satellite port on the back of the wall plate.

Step 7 - Mount the power supply in wall with the provided screws.

Step 8 – 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.

Step 9 – Press the “ON” switch on the front of the power supply, and check that the wall plate indicator light is on.

Power Supply Installation – Gateway

NOTE: This power supply is equipped with a polyswitch, which will shut down +12 VDC 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.

Step 1 – Choose a location to install the supplied Wall Plate with Power On/ Off switch. When selecting a location, remember that a +12VDC power cable will need to be run from the Gateway to the switch.

Step 2 – For a wall or panel mount, drill or use a hole saw to create a 1¼” hole. Pull the Gateway’s power cable and the RV’s power wire through the wall or panel.

Step 3 – Be sure the switch is in the OFF position before continuing. Slide the power switch into the wall plate.

Step 4 – Connect the +12V power wire from the vehicle to a small red terminal insulator. Crimp the connector.

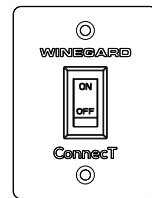
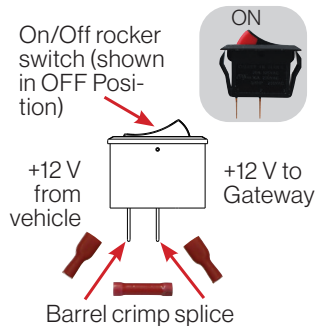
Step 5 – Connect this small red terminal insulator to the isolated spade of the power switch.

Step 6 – Connect the red wire from the Gateway’s power cable to the other small red terminal insulator. Crimp the connector.

Step 7 – Connect this small red terminal insulator to the middle spade on the switch.

Step 8 – Slide the ground wire from the vehicle into one end of the barrel crimp splice, and slide the black ground wire from the Gateway’s power cable into the opposite end of the splice. Crimp the splice.

Step 9 – Mount the wall plate to the wall or panel with the two supplied wall plate screws.



TV Antenna Operation

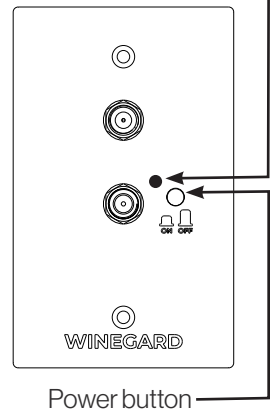
First-time users must run a channel scan on your TV to receive maximum programming.

Ensure the antenna power supply (wall plate) is in the “ON” position and the green indicator light is illuminated.

A channel scan will find all available channels in your area, including any new channels and subchannels that have been added in your area since the last scan.

While the steps to perform a channel scan may vary between televisions or compatible devices, the steps below are some general guidelines to follow.

Power indicator light is green when power is on.



Channel Scan

- Using the television remote, select “Menu” and then “Settings.”
- Select “Channel Setup.”
- Select “Antenna” or “Air,” depending on your TV. Make sure you are not on “Cable.”
- Select “Channel Search” or “Channel Scan.” Keep in mind that steps to perform a channel scan may vary. If the wording in your TV differs from the options shown, refer to your TV user manual for help.

NOTE: Running a channel scan is NOT the same as pressing Channel UP/DOWN on your remote.

To receive maximum programming, you have to run a channel scan after setting up the antenna. To keep your channel line-up up-to-date, it is a good idea to run a channel scan monthly, anytime a channel is lost, and anytime you change locations.

Gateway 5G Operation

See Gateway Installation and Operation Manual.

Winegard Gateway 5G

The Winegard Gateway 5G is compatible with the Winegard Air 360 Plus 5G ONLY. It is the accompanying piece to take your Air 360 Plus 5G to the next level in connectivity. The Gateway (GW-1000) is also compatible; however, it will only provide WiFi and 4G LTE connectivity.



Data **flexibility**. Choose your carrier. Let Winegard help with your data options!



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Troubleshooting

WARNING: Do NOT install couplers, splitters, etc. between the power supply and the antenna. Installation of any item on the download may cause a short in the system. The download supplies +12 VDC to the preamp in the antenna.

What to do when your RV/TV antenna is not working properly:

TO TEST SYSTEM-

Step 1 – Make sure TV set is working properly.

Step 2 – Switch power supply ON and OFF watching for difference in picture quality. If there is NO difference, use following steps:

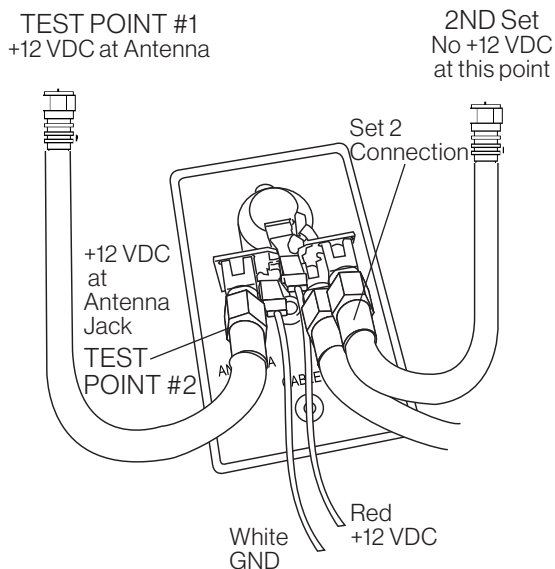
CAUTION: The power supply should be turned OFF when connecting/disconnecting cables to power supply and antenna, but should be turned ON when testing for voltage.

Step 3 – Disconnect cable from antenna and check for +12 VDC at Test Point #1. If there is +12 VDC, the power supply is OK. Replace antenna.

Step 4 – If there is NO +12 VDC at Test Point #1, reconnect cable to antenna. Remove power supply from wall and visually inspect for burned/broken parts. If there are ANY broken/burned parts, replace power supply.

Step 5 – Disconnect cable from antenna jack on power supply. Check for +12 VDC at Test Point #2. If +12 VDC is present, there is a cable problem connecting the power supply to the antenna. Repair/replace cable.

Step 6 – If +12 VDC is not present at Test Point #2, be sure the green indicator light is ON. If not, check the polarity of the red/white wires and the +12 VDC source. If there is still no +12 VDC, replace power supply.



Approved Winegard Satellite Antennas

The satellite antenna connection is recommended for Winegard domed satellite TV antennas. The following satellite products have been tested. Attempting to use with any other satellite antenna may not work.

Installation Requirements:

- The satellite antenna must be installed at a minimum of 6 feet away from the Air 360 Plus 5G.
- Coax with weatherproof connectors should be used when connecting to the satellite F-Jack on the Air 360 Plus 5G.
- If removing a satellite antenna, the factory installed F-Jack cap should be reattached to avoid water intrusion and/or corrosion.
- The Playmaker and Pathway may require the purchase of a Winegard power inserter (Winegard Model PI-GM60) if the coax cable run to the satellite antenna exceeds the recommended length (25').



DISH Playmaker, Pathway X1,
Carryout G2+ and G3

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