

# 1 meter Ku-Band receive-only antenna system

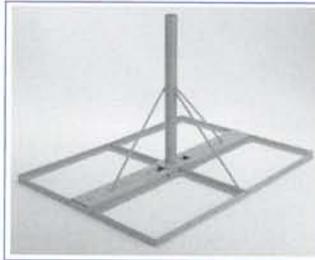
Winegard Company has been designing and manufacturing television reception products since 1954. Satellite television products have been a major part of our business since 1980. We currently manufacture digital satellite antennas for direct-to-home installations in 46, 60, 76 cm, and 1 and 1.9 meter sizes.

Winegard reflectors are designed using the CAD-CAM process. Galvanized steel, used in manufacture, is carbon sheet steel with a zinc-iron alloy coating. Corrosion resistant, these alloys react to scratches and other damage through galvanic action between steel and zinc. The zinc-iron coating has a readily paintable surface with superior mechanical bonding. Reflectors are checked repeatedly during manufacturing with a computer numerical control coordinate measuring machine. The CNC CMM is one of the best methods of quality control from design to fabrication. Antennas are checked at 49 points during fabrication to maintain quality and precision.

The combination of thermoset powder coat finish, E-Coat and JS-600 finished hardware gives our reflectors and mounts a proven, superior weatherproof finish.

In addition to a manual for each product, technical support is available by phone or telefax. Winegard DTH products, made in the U.S.A., are backed by a limited five-year warranty.

**Winegard's Non-Penetrating Roof Mounts** solve problems associated with flat-roof installations, and are also an alternative for nonpermanent installs. Base frames are fabricated with 1.75x1.75x.125 inch angle iron. Post is steel with sturdy aluminum braces. Base frame and post have a seven step, thermoset powder coat finish. The 1 meter antenna requires two base frames (DS-5046) and post kit



(DS-5001). This mount covers approximately 12 square feet of roof space. Post kit includes pole and braces; base frames are not included.



**Winegard's Universal Mount** can be mounted on the wall, or a flat or pitched roof.

## Mechanical

|                          |                         |
|--------------------------|-------------------------|
| Optics .....             | Offset                  |
| Effective aperture ..... | 100 cm (39.4 in.)       |
| Antenna height .....     | 114 cm (44.8 in.)       |
| Antenna width .....      | 105 cm (41.3 in.)       |
| Galvannealed steel ..... | 19 ga.                  |
| Antenna weight .....     | 10 Kg. (22 lbs.)        |
| F/D .....                | .59                     |
| Offset angle .....       | 24°                     |
| Focal distance .....     | 59 cm (23.11 in.)       |
| Surface accuracy .....   | .020 - .024 in. average |
| Mounting options .....   | Universal               |
| Mount Pole .....         | 2.375 in. dia.          |

## Electrical

|                                    |                 |           |           |
|------------------------------------|-----------------|-----------|-----------|
| Frequency range .....              | 10.95-12.75 GHz |           |           |
| Gain at mid-band                   |                 |           |           |
|                                    | 11.2            | 12.1      | 12.6      |
|                                    | 39.83 dBi       | 40.50 dBi | 40.85 dBi |
| Aperture efficiency .....          | 73%             |           |           |
| Cross polarization (on axis) ..... | -21 dB          |           |           |
| Beamwidth at -3 dB .....           | 1.8°*           |           |           |
| Beamwidth at -10 dB .....          | 3.0°*           |           |           |

## Environmental

|                   |                       |
|-------------------|-----------------------|
| Wind loading      |                       |
| Operational ..... | 80.5 Km/hr. (50 mph.) |
| Atmosphere .....  | 10 yrs.               |

## Feed support

Universal

\* Gain, efficiency and pattern measured/calculated with Winegard proprietary circularly polarized feed horn at 12.45 GHz. All data obtained from independent certified test facilities. Detailed patterns available on request.



# WINEGARD®

## 1 meter

Winegard's 1 meter — the high power satellite DTH choice. Tri-leg feed support system accurately positions feed assembly for optimum gain. Feed attachments available for all popular brands of LNBFs.

The reflector is manufactured from 19 gauge galvanized steel, finished with a seven step, textured thermoset powder coat. A hydrophobic additive in the finish increases water and snow repellent action. The mount, manufactured from galvanized steel, is E-Coated for maximum protection. All hardware has the highly corrosive resistant JS-600™ finish. The combination of these processes gives Winegard DTH systems the best finish available!

The antenna, mount and hardware have had extensive atmospheric testing, and will withstand 700 hours of salt spray. This system is designed to operate in winds up to 50 mph.

The system includes a comprehensive manual, plus a technical support telephone number. It has Winegard's five-year limited warranty, and is UPS shippable.



### **Universal Mount**

**Precision-stamped** for consistent quality

**Easy to install.**

**Galvanized steel** antenna and mount with a combination of powder coat, E-coat and JS-600 finishes for outstanding environmental durability

**Design** meets 50 mph wind speed operational requirements

**Responsive customer service** support

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