

## Parabolic Dish Antenna

### 5.8 GHz Operation

#### Features

- High Gain, 29 dBi Antenna (2 Frequency Ranges Available)
- Adjustable tilt pole mount
- Vertical or Horizontal Polarization
- Type N Female Connector
- DC Grounded for lightning protection
- Rugged, Lightweight and Waterproof



#### Applications

- 5.8 GHz ISM Band Applications
- 5.3GHz UNII Band Applications
- Point to Point Data Links
- 802.11a Wireless Data
- Long Distance Backhaul Data Links
- Building to Building High Speed Links

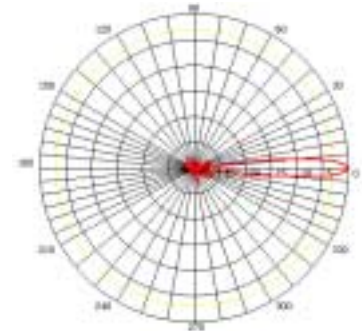
#### Description

The Parabolic Dish Antenna systems offered by VideoComm Technologies are constructed of an aluminum alloy dish with powder coat paint finish for excellent mechanical, electrical and environmental performance. The parabolic reflector is made with a special one-step molding technology which achieves excellent consistency and long term stability. They come complete with universal galvanized steel, powder coat paint mounting system for pole mount applications. Because of its' superb electrical performance and mechanical stability, the parabolic dish antenna can be used in a wide variety of high performance 5GHz wireless applications. An optional Fiberglass Radome is available for added environmental protection.

#### Specifications

Parameter	Min	Type	Max	Units
<i>Frequency Range</i>	5725		5850	MHz
<i>Gain</i>		29		dBi
<i>Input Return Loss (S<sub>11</sub>)</i>		-14		dB
<i>VSWR</i>		1.5:1		
<i>3db Beam Angle</i>		6		Deg
<i>Cross Pole</i>		-32		dB
<i>Front to Back</i>	25			dB
<i>Side Lobe</i>		-28		dB
<i>Impedance</i>		50		OHM
<i>Input Power</i>			100	W
<i>Pole Diameter (OD)</i>	1.5 (38)		3.0 (76)	Inch (mm)
<i>Operating Temperature</i>	-40		+70	Deg C
<i>Rated Wind Velocity</i>			125	mph
<i>Focal Length</i>		10 (254)		Inch (mm)
<i>Weight</i>		11 (5)		Lbs (Kg)
<i>Dimensions (Dia)</i>		25.5 (648)		Inch (mm)

#### Antenna Patterns



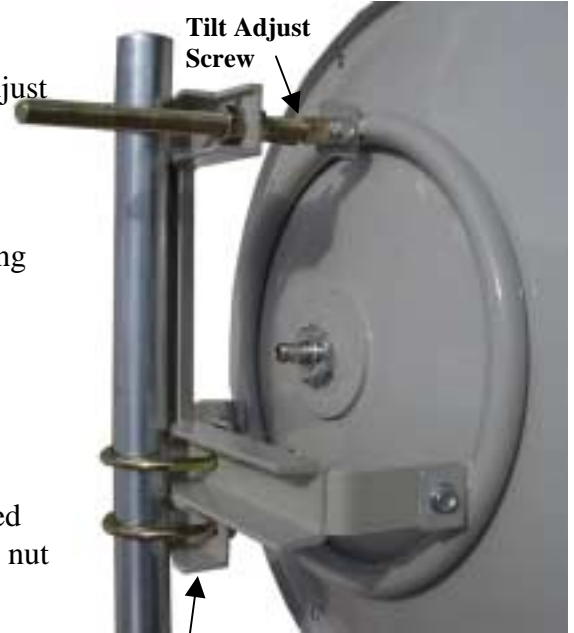
## Instructions

**Step 1:** Attach the pole mount assembly to the dish. Assemble with tilt adjustment screw towards the top as shown. Be sure to mount the tilt adjust screw on the correct side of the antenna flange as shown for proper operation. Torque nuts to at least 60 in-lbs.

**Step 2:** Place the stabilizer clamp on the pole just below where the antenna will be mounted. This clamp helps to stabilize the antenna during assembly and also gives added vertical support during use.

**Step 3:** Attach the antenna assembly to the pole using the two U-Bolts provided.

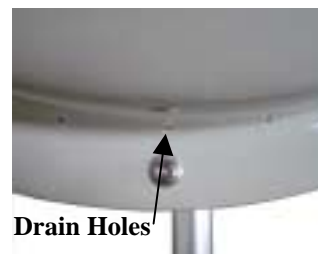
**Step 4:** Attach the antenna feed. This antenna has a positive polarity mounting method. For Vertical polarity engage the feed with the black screw in the up or down position. For Horizontal polarity engage the feed with the black screw in the left or right position. Tighten the feed attach nut on the back of the antenna to secure the feed.



Horizontal Polarity



Vertical Polarity



Drain Holes

**Step 5:** Radome Assembly – If you have purchased the optional radome kit for this antenna, depending on your installation, you may want to assemble the antenna feed and the radome before mounting the antenna to the pole.

Technical Support

Bus (905) 339-0366 Fax (905) 339-1776

Email: [info@videocommtech.com](mailto:info@videocommtech.com)

Web site: [www.videocommtech.com](http://www.videocommtech.com)

Mon. – Fri. 8:30am – 5:00pm

Eastern Standard time