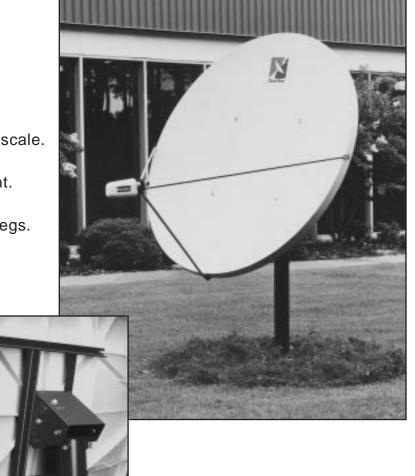


### **Type 180**

# 1.8m RECEIVE-ONLY OFFSET ANTENNA SYSTEM

#### **FEATURES**

- One-piece precision offset compression molded reflector.
- Sturdy AZ/EL mount with elevation scale.
- Single bolt fine elevation adjustment.
- Galvanized .75" O.D. feed support legs.
- Factory pre-assembled mount.
- Cadmium-plated hardware for maximum corrosion resistance.
- Available with a wide variety of C-Band or Ku-Band feeds.



The Channel Master® Type 180 1.8m Offset Antenna is a rugged commercial grade product suitable for the most demanding applications. The reflector is compression-molded for strength and surface accuracy. Molded into the rear of the reflector is a network of support ribs which not only strengthens the antenna, but also helps to sustain its critical parabolic shape.

The AZ/EL mount is constructed from heavy-gauge steel to provide a rigid support to the reflector. Four heavy-duty lockdown bolts secure the mount to any 4.50" O.D. mast and prevent slippage in high winds. A specially-formulated powder paint process offers excellent protection from weather-related corrosion. Hot-dip galvanizing is optional for extreme environmental conditions.

## **Type 180**



## Specifications

Ku-Band

#### **RF PERFORMANCE**

Effective Aperture	1.8m (71 in.)	1.8m (71 in.)
Operating Frequency	3.7-4.2 GHz	10.95-12.75 GHz
Polarization	Linear (Circular optional)	Linear (Circular optional)
Midband Gain (±.2 dBi)	35.3 dBi	45.5 dBi
3 dB Beamwidth	3.0°	.99°
Antenna Noise Temperature @ 30° EL	30°K	23°K
VSWR	1.3:1 Max.	1.3:1 Max.
Cross-Polarization Discrimination	>30 dB On Axis (Linear)	>30 dB On Axis (Linear)
Feed Interface	CPR-229	WR-75

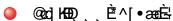
C-Band

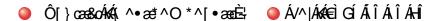
#### **MECHANICAL PERFORMANCE**

Reflector Material

Reflector Material		Glass Fiber Reinforced Polyester	
Antenna Optics		One-Piece Offset Feed Prime Focus	
Mount Type		Elevation over Azimuth	
Elevation Adjustment Range		10°-70° Continuous Fine Adjustment	
Azimuth Adjustment Range		360° Continuous	
Mast Pipe Interface		4.50 Inch (114 mm) Diameter	
Wind Loading	Operational	50 Mi/h	
	Survival	125 Mi/h	
Temperature		-50°C to 80°C	
Humidity		0 to 100% (Condensing)	
Atmosphere		Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas	
Solar Radiation		360 BTU/h/ft²	
Shock and Vibration		As Encountered During Shipping and Handling	







Glass Fiber Reinforced Polyester

