



## PRODUCT SPECIFICATIONS

### Detail Photos

(on right from top to bottom)

Pre-assembled Az/El Mount

Fine-elevation adjustment with stamped degree scale

Ku feed assembly with LNB cover



# 1.8 m Receive-Only Antenna System

## TYPE 180

The reflector is thermoset-molded for strength and surface accuracy.

The Andrew Corporation 1.8 m Type 180 Offset Antenna is a rugged commercial grade product suitable for the most demanding applications. The reflector is thermoset-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" (114 mm) 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.

- One-piece thermoset-molded offset reflector.
- Single bolt fine elevation adjustment.
- Galvanized .75" (19 mm) O.D. feed support legs.
- Factory pre-assembled mount.
- Plated hardware for maximum corrosion resistance.
- Available with a wide variety of C-Band or Ku-Band feeds.

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## SPECIFICATIONS

### TYPE 180 1.8 m Receive-Only Antenna System

#### RF Performance

	C-Band	Ku-Band
Effective Aperture	1.8 m (71 in)	1.8 m (71 in)
Operating Frequency	3.7-4.2 GHz	10.95-12.75 GHz
Polarization	Linear (Circular optional)	Linear (Circular optional)
Gain @ 3.95/11.95 GHz	35.3 dBi	45.5 dBi
3 dB Beamwidth	3.0°	1.0°
Antenna Noise Temperature @ 30° Elevation	30°K	23°K
VSWR	1.4:1	1.3:1
Cross-Polarization Discrimination	>30 dB On Axis (Linear)	>30 dB On Axis (Linear)
Feed Interface	CPR-229	WR75 Cover Flange (UBR120)

(All specifications typical)

#### Mechanical Performance

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 in (114 mm) Diameter
Wind Loading	Operational 50 mi/h (80 km/h) Survival 125 mi/h (200 km/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/ft <sup>2</sup>
Shock and Vibration	As Encountered During Shipping and Handling



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Bulletin PA-100552-EN (6/05)

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