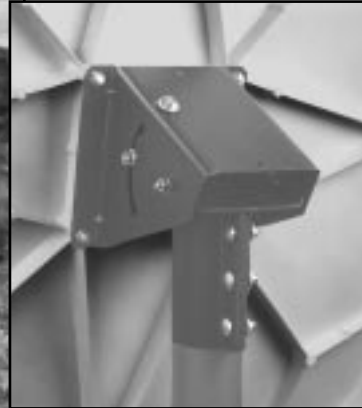


## 1.2m Receive-Only Offset Antenna System



*Sturdy Az/EI mount with elevation scale*

### FEATURES

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- One-piece thermoset-molded offset reflector.
- Single bolt fine elevation adjustment.
- Galvanized .75 in. 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.

### DESCRIPTION

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The Andrew Corporation Type 120 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/EI mount is constructed from heavy-gauge steel to provide a rigid support to the reflector. The Az/EI mount secures the antenna to any 2.88-3.00 in. O.D. mast and prevents slippage in high winds. A specially formulated powder paint process offers excellent protection from weather-related corrosion.

# 1.2m Receive-Only Offset Antenna System

## RF PERFORMANCE

	<u>C-Band</u>	<u>Ku-Band</u>
Effective Aperture	1.2m (48 in.)	1.2m (48 in.)
Operating Frequency	3.4 - 4.8 GHz	10.95 - 12.75 GHz
Polarization	Linear (Circular optional)	Linear (Circular optional)
Gain @ 3.95/11.95 GHz	32.0 dBi (Typical)	42.0 dBi (Typical)
3 dB Beamwidth	4.4°	1.6°
Antenna Noise Temperature		
@ 30° Elevation	32°K	24°K
VSWR	1.4:1 Max.	1.3:1 Max.
Cross-Polarization Discrimination	>30 dB On Axis (Linear)	>30 dB On Axis (Linear)
Feed Interface	CPR-229	WR75 Cover Flange (UBR120)

## 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		2.88-3.00 in. (73-76 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/ff <sup>2</sup>
Shock and Vibration		As Encountered During Shipping and Handling



**Connecting the Wireless World**

**Andrew Corporation**  
10500 W. 153rd Street  
Orland Park, IL 60462 USA

**Customer Support Center**  
1315 Industrial Park Drive  
Smithfield, NC 27577 USA  
Telephone +1-919-989-2205  
Fax: +1-919-989-2200

**Internet**  
[www.andrew.com](http://www.andrew.com)

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