



# TYPE 180

## 1.8m RECEIVE-ONLY OFFSET ANTENNA SYSTEM

- ◆ One-piece thermoset-moulded offset reflector.
- ◆ Single bolt fine elevation adjustment (Az/El).
- ◆ Galvanised 20mm O.D. feed support legs.
- ◆ Factory pre-assembled mount.
- ◆ Galvanised and steel hardware for maximum corrosion resistance.
- ◆ Available with a wide variety of C-Band or Ku-Band feed options.



**Az/El Mount (Galv)**



The Channel Master® Type 180 Offset Antenna is a rugged commercial grade product suitable for the most demanding applications. The reflector is thermoset-moulded for strength and surface accuracy. Moulded 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 114mm O.D. mast and prevents slippage in high winds. A specially formulated powder paint process offers excellent protection from weather-related corrosion. Hot-dip galvanising is optional for extreme environmental conditions.

### SPECIFICATIONS

#### RF PERFORMANCE

EFFECTIVE APERTURE:  
OPERATING FREQUENCY:  
POLARISATION:  
GAIN @ 11.95 GHz:  
3 dB BEAMWIDTH:  
ANTENNA NOISE TEMPERATURE  
@ 30° ELEVATION:  
VSWR (MAX.):  
CROSS-POLARISATION  
DISCRIMINATION (LINEAR):  
FEED CLAMP DIAMETER:

#### C-BAND

1.8m  
3.7 - 4.2 GHz  
Linear/Circular  
35.3 dBi  
3.0°  
30°K  
1.3:1  
>30 dB on axis  
CPR-229

#### KU-BAND

1.8m  
10.70 - 12.75 GHz  
Linear/Circular  
45.5 dBi  
.99°  
23°K  
1.3:1  
>30 dB on axis  
40mm (23mm insert optional)

#### MECHANICAL PERFORMANCE

REFLECTOR MATERIAL:  
ANTENNA OPTICS:  
MOUNT TYPE:  
ELEVATION ADJUSTMENT RANGE:  
AZIMUTH ADJUSTMENT RANGE:  
MAST PIPE INTERFACE:  
WIND LOADING:

Glass fiber reinforced polyester  
One-piece offset  
Elevation over azimuth (Az/El)  
10°-70° Continuous fine adjustment  
360° Continuous  
114mm diameter

REFLECTOR SIZE:  
TEMPERATURE:  
HUMIDITY:  
ATMOSPHERE:

80 km/h operational  
200 km/h survival  
182cm x 197cm  
-50°C to 80°C  
0 to 100% (condensing)  
Salt, pollutants and contaminants as  
encountered in coastal and industrial areas

SOLAR RADIATION:  
SHOCK AND VIBRATION:  
WEIGHT/DIMENSION:

360 BTU/h/ft²  
As encountered during shipping and handling  
1.8m - 47.5kg (201 x 189 x 22cm)  
Az/El - 23kg (66 x 66 x 30cm)

Specifications subject to change without notice.

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# ANTENNA