

# 3.8m Prime Focus Antenna System

## Ku-Band and C-Band Options

### Features

- Multi-Feed Systems Available (up to 4)
- Available in Dual Axis Motorized and Az-El Fixed Pipe Head Mounts
- 125 Mph Wind Survival
- High Accuracy Antenna, Low Transportation Cost
- Complete Turnkey Systems Available

### Description

The Challenger 3.8 Meter Prime Focus antenna is manufactured in the United States and is the symbol of quality in the antenna industry.

This antenna features an aluminum reflector which is powder coated for superior protection against the elements. Challenger offers a variety of mounting options and stainless steel hardware is standard.

The contoured petals with matched radial beams and hub assembly ensure easy installation without field alignment.

| RF Specifications       | Ku-Band           | C-Band                               |
|-------------------------|-------------------|--------------------------------------|
| Receive Frequency (GHz) | 10.95 - 12.75     | 3.625 - 4.2                          |
| Midband Gain            | 50.3 dBi          | 41.5 dBi                             |
| Noise Temperature       | 55 K @ 10°        | 50 K @ 10°                           |
| Ports/Polarization      | 1 or 2 port liner | 1 or 2 port circular/1 or 2 port lin |
| Polarization Rotation   |                   | 360° Continuous                      |
| Polarization Isolation  | 30 dB LP          | 30 dB LP                             |
| VSWR                    | Rx 1.4:1          | Rx 1.4:1                             |
| Feed Flanges            | Rx WR75           | Rx CPR 229G                          |

| Mechanical Data       | Az-El Head       | Dual Axis Motorized |
|-----------------------|------------------|---------------------|
| F/D Ratio             | 0.413            | 0.413               |
| Focal Distance        | 62.5 in.         | 62.5 in.            |
| Azimuth Travel        | 360° Continuous  | 120° Arc            |
| Elevation Travel      | 5° to 90°        | 20° to 90°          |
| Polarization Travel   | ±90°             | ±90°                |
| Total Weight          | 685 lbs.         | 715 lbs.            |
| Crate Dimensions      | 88 x 36 x 30 in. | 88 x 36 x 30 in.    |
| Units/40 ft Container | 39 units         | 36 units            |

| Environmental Data |              |   |
|--------------------|--------------|---|
| Wind Loading       | Operational: | 60 mph (100 km/h)                           |
|                    | Survival:    | 125 mph (200 km/h)                          |
| Temperature        | Operational: | -40° to 140° F (-40° to 60° C)              |
|                    | Survival:    | -60° to 180° F (-51° to 82° C)              |
| Rain               | Operational: | .5 in./hr (1.25 cm/hr)                      |
|                    | Survival:    | 3 in./hr (7.6 cm/hr)                        |
| Ice                | Survival:    | 1 in. (2.5 cm) radial                       |
|                    |              | .5 in. (1.25 cm) radial + 60 mph (100 km/h) |



3.8m Prime Focus Antenna System  
Mounted on 6.625" Pipe.

The 3.8m Prime Focus reflector consists of 16 draw die formed petals. Radial beams and outboard skirts are constructed of galvalume steel. The contoured petals, radial beams, outboard skirts, and hub assembly are powder coated for superior protection against the elements. Stainless steel hardware is included.

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