

# 1.2m Quick-Deploy Antenna System

## Ku-Band Option

### Features

2 or 6-Piece Aluminum Reflector  
Pre-Assembled Tripod Base Mount w/Pull Pins  
C, Ku and Ka Band Feed Systems Available  
Sturdy Boom Accommodates Outdoor Units  
Adjustable Feet for Uneven Surfaces  
Optional Lightweight Cases for Easy Transportation  
Azimuth and Elevation Hand Crank  
10 Minute Setup, No Tools Needed

### Description

The Challenger Communications 1.2 Meter Quick-Deploy Antenna System incorporates precision assembled reflector panels with our rugged **Antenna Armor™** backing structure for 2-piece and **Dual Skin** for 6-piece.

To ensure quality and performance, Challenger panels are inspected for R.M.S. accuracy using the latest in laser measurement techniques.

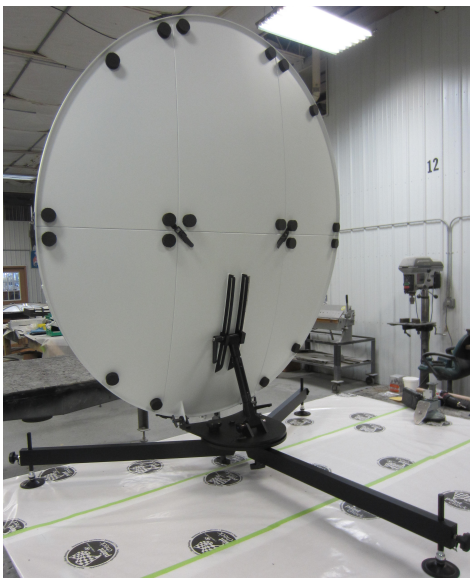
All reflectors and mounts are produced from high quality materials and are made in the USA.

| RF & Antenna Specifications |                  | Ku Linear     |
|-----------------------------|------------------|---------------|
|                             | Receive          | Transmit      |
| Frequency (GHz)             | 10.7 - 12.75     | 13.75 - 14.5  |
| Feed - 2 - Port Xpol        |                  |               |
| Return Loss                 | 17.7 dB typ      | 20 dB typ     |
| Insertion Loss              | 0.3 dB typ       | 0.1 dB typ    |
| Tx/Rx Isolation             | 40 dB            | 80 dB         |
| Feed Interface              | WR75             | WR75          |
| Efficiency                  | 70%              | 70%           |
| Cross Polarization On Axis  | 30 dB            | 35 dB         |
| within 1 dB Beamwidth       | 22 dB            | 26 dB         |
| Tx/Rx Sidelobe Level        | 100λ/D < θ < 20° | 29 - 25 log θ |
|                             | 20° < θ < 26.3°  | -3.5          |
|                             | 26.3° < θ < 48°  | 32 - 25 log θ |
|                             | 48° < θ          | -10           |
| Midband Gain                | 41.8 dBi         | 43.5 dBi      |
| Noise Temperature           | 68K @ 10°EL      |               |
|                             | 53K @ 30°EL      |               |

| Mechanical Specifications |                                      |
|---------------------------|--------------------------------------|
| Antenna Optics            | Single Offset                        |
| Mount Type                | Elevation over Azimuth Tripod        |
| Elevation Adjustment      | 0° to 90° Continuous Fine Adjustment |
| Azimuth Adjustment        | 360° Continuous Fine Adjustment      |

| Environmental Performance        |               |                |
|----------------------------------|---------------|----------------|
| Wind Loading                     | Standard      | Metric         |
| Operational (No Ballast/Anchors) | 25 mph        | 40 km/h        |
| Operational (w/Ballast/Anchors)  | 45 mph        | 72 km/h        |
| Survival (w/Ballast/Anchors)     | 90 mph        | 145 km/h       |
| Temperature                      | -40° to 140°F | -40° to 60°C   |
| Rain                             | .5 in./h      | 1.3 cm/h       |
| Solar Radiation                  | 360 BTU/h/ft² | 1000 Kcal/h/m² |

| Transport Cases        |                        |          |
|------------------------|------------------------|----------|
| 6-Piece Reflector Bag  | 33.5 x 20.5 x 14.5 in. | 53 lbs.  |
| 6-Piece Mount Bag      | 33.5 x 20.5 x 15.5 in. | 45 lbs.  |
| 2-Piece Reflector Case | 55 x 15 x 32 in.       | 100 lbs. |
| 2-Piece Tripod Case    | 48 x 19 x 18 in.       | 90 lbs.  |



6-piece reflector pictured left  
2-piece reflector pictured right

**Made in the USA**

**Request A Quote**