

# 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.

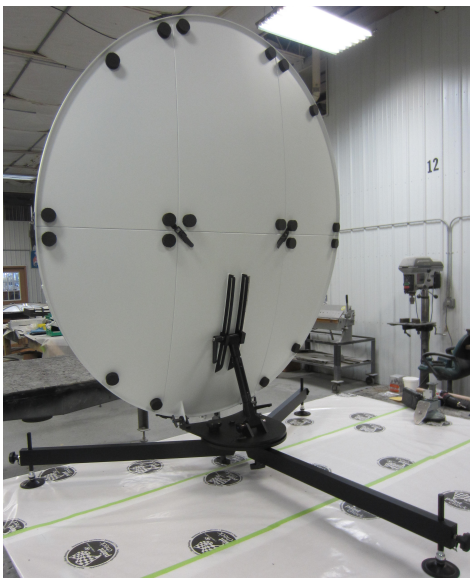
All reflectors and mounts are produced from high quality materials and are made in the USA.

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**

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