

1.0m Quick-Deploy Antenna System

Ku-Band Option

Features

2 or 6-Piece Aluminum Reflector
Pre-Assembled Tripod or Low Profile 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 1.0 Meter Quick-Deploy Antenna System incorporates precision assembled reflector panels with our rugged **Antenna Armor™** backing structure.

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	
Antenna Gain*	39.3 @ 11.7 GHz	41.4 @ 14.25 GHz	
Antenna Noise Temperature @ 10.7 GHz			
10° Elevation	66K		
20° Elevation	54K		
30° Elevation	52K		
Cross Polarization Isolation			
On Axis	>30 dB	>30 dB	
within 1 dB Beamwidth	>25 dB	>26 dB	
VSWR	<1.5:1	<1.2:1	
Port to Port Isolation	>45 dB	>80 dB	
Feed Interface	WR75	WR75	
Sidelobe Performance		ITU-R S.580	

Mechanical Specifications	
Antenna Optics	Offset, Prime Focus
Mount Type	Azimuth over Elevation
Elevation Adjustment	0° to 90°
Azimuth Adjustment	360° Continuous Fine Adjustment

Durable Nylon backpack-style case with rollers and extension handle:

65 lbs. 34 x 20 x 15 in. (29.5 kg 86.4 x 50.8 x 15 cm)

Hard cases option also available.

Environmental Performance		
Wind Loading	Standard	Metric
Operational (No Ballast/Anchors)	20 mph	32.2 km/h
Survival (w/Ballast/Anchors)	30-45 mph gusts	48.3-72 km/h gusts
Operational Temperature	-20° to 125°F	-28.9° to 51.7°C
Survival Temperature	-45° to 140°F	-42.8° to 60°C
Rain	.5 in./h	1.3 cm/h
Solar Radiation	360 BTU/h/ft²	1000 Kcal/h/m²



1.0m Quick-Deploy Antenna System
6-piece reflector with low profile mount
depicted

*Includes all losses

DOC0006 Rev. 2023.10.24 Typical data, subject to change without notice.

Made in the USA

Request A Quote