

1.2 Meter Quick-Deploy Antenna System

X-Band, Ka-Band Option

Description

Type: 1.2 Meter QD Ku-band Antenna

1.2 Meter Quick-Deploy Antenna System incorporates precision assembled reflector panels with our rugged designed for the efficient organization of high-speed communication channels in any places. To ensure quality and performance, accuracy using the latest in laser measurement techniques reflector panels are inspected for R.M.S. The antenna is designed to meet international performance specifications for commercial or military applications and is readily available in Ku band frequencies.

Multiple feed configurations are available.

Key Features

- 6-Piece Carbon fiber folding Reflector.
- Pre-Assembled Tripod Base Mount w/Pull Pins.
- Ku and Ka Band Feed Systems Available.
- Sturdy Boom Accommodates Outdoor Units.
- Adjustable Feet for Uneven Surfaces.
- Optional Lightweight Cases for Easy Transportation.
- 5 Minute Setup, No Tools Needed.
- AZ,EL,Pol.(Coarse & fine adjustment) Angles to be engraved on the antenna



RF & Antenna Specifications		
Ku-band Linear	Receive	Transmit
Frequency, GHz	10.95-12.75	13.75-14.5
Mid-Band Gain, dBi	41.8	42.6
VSWR	1.3:1	1.3:1
3dB Beam Width, deg	1.5	1.23
Noise Temperature		
20 Deg Elevation, K	43	
Typical G/T @ 10 Deg, dB/K	20.4	
Tx Power Capability, W		500
Port to Port Isolation		
Tx> Rx Rejection, dB	85	
Cross-pol on Axis, dB	35	35
Insertion Loss, dB	0.25	0.2
Radiation Pattern Compliance	FCC 25.209, ITU-RS.580-6,	
First sidelobe, dB	≤ -14	
Sidelobe Envelope	29 - 25 log (1° ≤ θ < 20°)	
Feed Interface	WR-75 CPR	

Mechanical Specifications	
Antenna Optics	Single Offset
Reflector Aperture	1.2 Meters (3.9Feet)
Reflector Material	Carbon Fiber Reinforced Polymer
Reflector Panels	1-piece&5-piecesegmented Precision,
Surface Accuracy (RMS)	0.35 mm
Elevation Travel	0 to 90 ° Continuous, (Coarse & Fine adjustment)
Azimuth Travel	30° Fine, 360° Continuous, (Coarse & Fine adjustment)
Pol. Travel	± 95° Continuous, Self Locking.
Shipping Case	1Case, airline checkable (IATA-compliant)
Backpack	Size: 820*510*510mm Weight: 17Kg (without BUC)
Environmental Performance	
Operational Wind	47km/h (29mph) with ballast
Temperature	-40° C to +50° C
Tightness class	IP67(Dust and Water Resistant)
Humidity	0-98%