

1.2 Meter Quick Deploy Auto-Acquire Antenna System

Ka-Band Option

Description

Type: DH 1.2 Meter QDA Ku-band Antenna

1.2 Meter one-button auto-acquisition man-pack antenna system incorporates precision assembled reflector panels with our rugged designed for the efficient organization of high-speed communication channels in any places.

Key Features

- One button auto-pointing.
- Supports DVB-S1, DVB-S2 satellite acquisition either by beacon or modem outputs.
- Light weight, carbon fiber, reflector with a surface
- Aviation cases for easy transportation.
- No tools required for assembly / disassembly



RF & Antenna Specifications		
Ku-band Linear	Receive	Transmit
Frequency, GHz	10.95-12.75	13.75-14.5
Mid-Band Gain, dBi	41.5	43.1
VSWR	1.3:1	1.3:1
3dB Beam Width, deg	1.67	1.44
Noise Temperature		
20 Deg Elevation, K	45	
30 Deg Elevation, K	43	
Typical G/T @ 10 Deg, dB/K	39.5	
Tx Power Capability, W		200
Port to Port Isolation		
Tx > Rx Rejection, dB	0	85
Cross-pol on Axis, dB	35	35
Insertion Loss, dB	0.25	0.25
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	Gregory optics	
Reflector Aperture	1.2 Meters (3 Feet)	
Reflector Material	Carbon Fiber Reinforced Polymer	
Elevation Travel	0° to 90° Continuous	
Azimuth Travel	± 90°, ±220° Continuous	
Pol. Travel	± 95°, Continuous	
Axes Velociti es	Elevation	0.01°/S-3°/S
	Azimuth	0.01°/S-3°/S
	Pol.	1° /S
Deployment Sensors	GPS Antenna: Build-in, Compass: ±2Degree , Tilt sensor: ±0.1Degree	
Shipping Case	2 Case, airline checkable	
Cases Size	Rotary Cases: 940*690*365 mm Reflector Cases: 790*520*280 mm	
Total Weight	35Kg (without BUC)	
Environmental Performance		
Power Supply	DC 24 V 10A, AC110-230V 50/60Hz 5A (Optional)	
Operational Wind	65km/h (40mph) with ballast	
Temperature	-40° C to +50° C	
Tightness class	IP65 (Dust and Water Resistant)	
Humidity	0-98%	