

0.9 Meter One Button Acquisition Man-pack Antenna System

X-Band, Ka-Band Option

Description

Type: DH 0.9 Meter MPA Ku-band Antenna

0.9 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.

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 X-band frequencies.

Key Features

- One button auto-pointing controller.
- Supports DVB-S1, DVB-S2 satellite acquisition either by beacon or modem outputs.
- Dual reflector Ring focus, 1-piece & 5-piece segmented,



- High strength, light weight, carbon fiber, reflector with a surface accuracy of <math><0.3\text{mm RMS}</math>.
- Adjustable Feet for Uneven Surfaces.
- Aviation cases for easy transportation.
- 5 Mins setup, no tools needed.

RF & Antenna Specifications		
Ku-band Linear	Receive	Transmit
Frequency, GHz	10.95-12.75	13.75-14.5
Mid-Band Gain, dBi	39.2	41.2
VSWR	1.3:1	1.3:1
3dB Beam Width, deg	1.89	1.51
Noise Temperature		
20 Deg Elevation, K	68	
30 Deg Elevation, K	63	
Typical G/T @ 10 Deg, dB/K	39.51	
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	$29 - 25 \log(1^\circ \leq \theta < 20^\circ)$	
Feed Interface	WR-75 CPR	

Mechanical Specifications

Antenna Optics	Dual reflector Ring focus,	
Reflector Aperture	0.9 Meters (3 Feet)	
Reflector Material	Carbon Fiber Reinforced Polymer	
Elevation Travel	0° to 90° Continuous	
Azimuth Travel	$\pm 180^\circ$, 360° Continuous	
Pol. Travel	$\pm 95^\circ$, Continuous	
Axes Velocities	Elevation	$0.01^\circ/S$ - $3^\circ/S$
	Azimuth	$0.01^\circ/S$ - $3^\circ/S$
	Pol.	$1^\circ/S$
Shipping Case	1 Case, airline checkable (IATA-compliant)	
Backpack	Size: 650*500*350mm Weight: 23Kg (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 $+50^\circ\text{C}$	
Tightness class	IP65 (Dust and Water Resistant)	
Humidity	0-98%	