

1.2 METER PORTABLE ANTENNA



Antenna Accessory

- ▶ Factory Feed System Testing and Documentation
- ▶ Ocean Transport Packing
- ▶ Water, dust and mud proof.
- ▶ Back pack or cases options for convenient transportation.
- ▶ Reflector color customizable.
- ▶ Choice of 2 pedestals for different terrains.



Features

- ▶ Meets or Exceeds CCIR 580 and INTELSAT Requirements
- ▶ Offset feed
- ▶ High G/T, Excellent Pattern Characteristics
- ▶ Powder coated aluminum Ground Mount Assembly.
- ▶ Foldable ground support for easy assembly.
- ▶ 2-port Ku band Feed.

Electrical Specification

	Receive	Transmit
Operating Frequency, GHz	12.2 ~ 12.75	14.0 ~ 14.5
Gain	$42.1+20\lg(f/12.5)$	$43.2+20\lg(f/14)$
Standing Wave	1.25:1	1.25:1
Antenna Noise Temperature		
5° Elevation	58° K	
10° Elevation	43° K	
20° Elevation	38° K	
40° Elevation	36° K	
Interface Type	WR-75G	WR-75F
Feed Insertion Loss	0.20dB	0.25dB
Reception & Transmission Isolation	80dB	
Cross Polarization Isolation		
Axial Point	35dB	35dB
-1dB Point	33dB	33dB
First Sidelobe	-18dB	-18dB
$1^\circ \leq \theta < 8^\circ$	$29-25\lg\theta$	$29-25\lg\theta$
$8^\circ \leq \theta < 48^\circ$	$29-25\lg\theta$	$29-25\lg\theta$
$48^\circ \leq \theta < 180^\circ$	-13dB	-13dB

Mechanical Specification

Antenna Diameter	1.2m
Antenna Type	Potable Flyaway
Antenna Pointing Range	
Azimuth	360° , (trim ±20°)
Elevation	25° - 80°
Polarization	±60°
Gross Weight	60Kg
Net Weight	35Kg
Primary Plane Overlay	Zinc Yellow Primer, White Alkyd Resin Enamel
Tripod Feed Bracket	Aluminum Alloy, Stainless Steel, Plastic Coating (black)

Environmental Specification

Temperature	-35°C ~ + 55°C
Rainfall	MAX 10cm/h
Relative Humidity	0% ~ 100%
Solar Radiation	360BTU/h/ft²