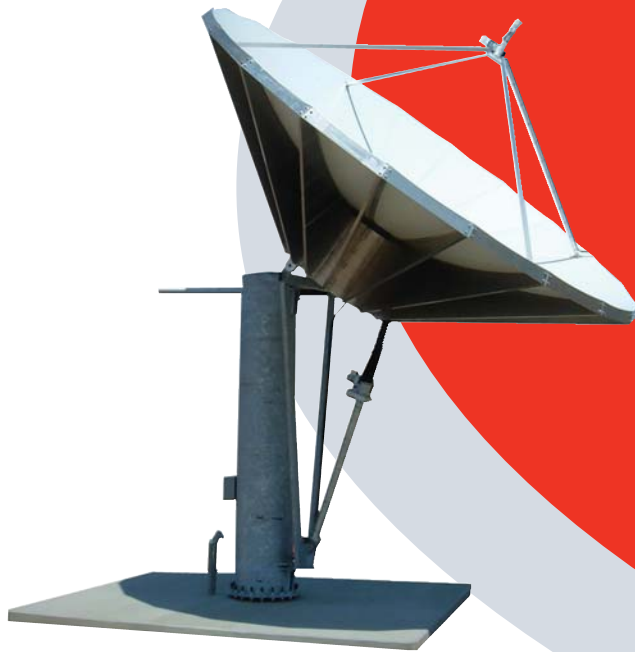


**7.5 / 6.3 / 5.0 Meter
Receive-Only
Earth Station**



**7.5 / 6.3 / 5.0
Meter**

Features

- C, Ku, and X-Band feed options
- Circular Foundation Interface
- Full line of options to meet any requirement
- High Wind and Full Motion options available
- No on site panel alignments required
- Installation Teams and Supervisors Available
- Factory assembled mount reduces installation time

Description

Patriot antennas have superior surface accuracy. Patriot's antenna reflectors incorporate precision stretch formed panels into very stiff backing structures. To insure quality and performance Patriot panels are inspected for R.M.S. accuracy using the latest in laser measurement techniques.

Patriot antennas have superior corrosion resistance. All reflector and mount parts are produced from high quality materials and treated for corrosion resistance by powder coat paint, epoxy paint or hot dip galvanizing as appropriate for each component. All hardware is stainless steel or hot dip galvanized depending on size an application.

Patriot antennas are designed and built to weather the storm. All Patriot Large Aperture Antennas are capable of surviving winds up to 125 mph as standard. High Wind designs are also available for areas that experience severe winds.

7.5 / 6.3 / 5.0 Meter Receive-Only Earth Station

Typical RF Specifications	C-band	Ku-Band	X-Band
Receive Frequency Range (other bands available)	3.625 - 4.2 GHz	10.95 - 12.75 GHz	7.75-7.75 GHz
Midband Gain	47.9 / 46.4 / 44.0 dBi	57/55.7/53.6 dBi	53.5/52/50 dBi
Noise Temperature	45/48/50 K @ 10°	50/53/56K @ 10°	48 / 50 / 53 K 10°
Ports / Polarization	1 or 2 port circular / 1 or 2 port linear	1 or 2 port linear	1 or 2 port Circular
Motorized feed system also available			
Polarization Rotation	360° Continuous	360° Continuous	360° Continuous
Polarization Isolation	30 dB LP	30 dB LP	25 dB LP
VSWR	Rx 1.4:1	Rx 1.4:1	Rx 1.4:1
Feed Flanges	Rx CPR 229G	Rx WR75	Rx CPR 112G
Mechanical Specifications			
Antenna Diameter	7.5m/6.3m/5.0m		
Elevation Travel	0 - 90° Standard		
Azimuth Travel	120° Standard		
Drive System: Elevation	Mechanical screw jack standard		
Drive System: Azimuth	Mechanical screw jack standard		
Mount Type	Tube Pedestal		
Structure material and finish	Steel hot dip galvanized		
Reflector material and finish	Aluminum with high diffusive white finish on reflective surface		
Environmental Specifications			
Operational Winds	45 mph (72 km/h); gusts to 60 mph (97 km/h)		
Survival Winds	125 mph (200 km/h) @ 58°F (15°C)		
Ambient Temperature	Operational: +5° to +122°F (-15° to 50°C) Survival: -22° to +140°F (-30° to +60°C)		
Rain	Up to 4 in/h (10 cm/h)		
Relative Humidity	0% to 100% with condensation		
Solar Radiation	360 BTU/h/ft ² (1000 Kcal/h/m ²)		
Radial Ice (Survival)	1 in (2.5 cm) all surfaces or 1/2 in (1.3 cm) all surfaces w/80 mph (130 km/h) gusts		
Shock and Vibration	As occurred during shipment		
Corrosive Atmosphere	As encountered in costal regions and/or heavily industrialized areas		
Seismic (Survival)	0.3 G's Horizontal, 1.0 G's vertical		

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