

RTP90 consists of a multi-panel dual reflector 9-meter Cassegrain dish with an Az over El pedestal configuration. The pedestal is mounted on a rigid base extension tube suitable for installation on the ground with a metal or concrete foundation. RTP90 is a great tool for Radio and solar astronomers. This antenna can be used for Satellite Tx/Rx applications in any frequency band up to 30GHz.



### ● RTP90 INCLUDES:

- 9-meter dual reflector Cassegrain antenna
- Full sky coverage motorized mount with Azimuth over Elevation configuration
- high resolution (0.01°) encoders
- Limit switches safety mechanism
- Rackmount Smart Antenna Control Unit (ACU)
- Waterproof Outdoor Antenna Drive Unit (ADU)
- Remote access control and controlling software
- Fiber optics connection between ACU and ADU
- 100-meter cables
- One year warranty and ten years part supply

# RTP90

## 9-Meter Antenna

• **SPECIFICATION:**

Type	9.0m antenna	
Operating Frequency, GHz	C-Band	Ku-Band
	3.2~6.8	10.5~14.5
Gain, Mid-band, dBi	50	60
Polarization	Dual Linear	
XPD (on Axis), dB	35	35
XPD across 1dB Beam Width, dB	33	33
VSWR	1.25	1.25
Antenna Noise Temperature	2 Pol. Port Feed	
10° Elevation	35°K	61°K
30° Elevation	26°K	50°K
50° Elevation	24°K	43°K
-3 dB Beam Width, Mid-band	0.45°	0.18°
Typical G/T (EL>10°, 2-port)	30dB/°K	36.3dB/°K
Feed Interface	WR-159	WR-75
Port Isolation, H to V dB	50	50

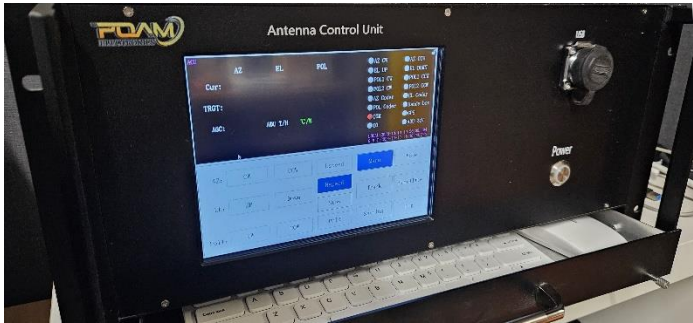
**Mechanical Specification**

Antenna Diameter		9.0m
Antenna Type		Cassegrain
Surface Accuracy (RMS)		≤0.5mm
Antenna Pointing Range	Azimuth (dual motor technology)	0 to 360° (Continuous) 0° to 90°(Continuous)
Drive Mode		Motorized (AC 3-Phase Motors)
Motor Drive System	Azimuth or Elevation Travel Rate	0. 1°/S to 0.01°/S Variable

**Environmental Specification**

Operational Wind	100km/h gusting to 150km/h
Survival Wind	210 km/h
Temperature	-40°~+60°
Relative Humidity	100%
Solar Radiation	1135Kcal/h/m <sup>2</sup>
Seismic (Survival)	0.3g(H), 0.15g(V)
Ice Loading	13mm Operational; 30mm Survival

- **SMART ACU:**



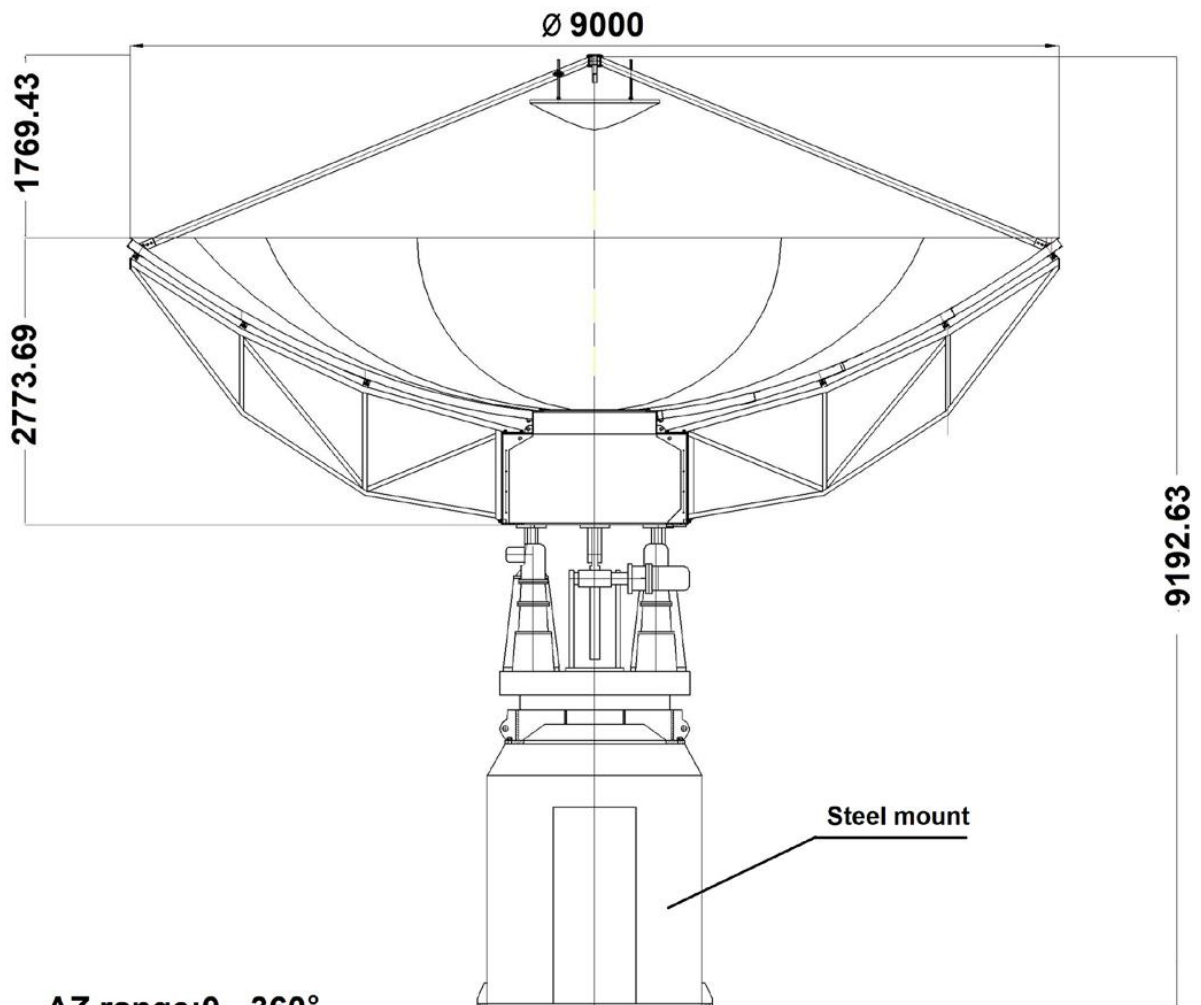
- **WATERPROOF OUTDOOR ADU:**



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## 9-Meter Antenna

- **ANTENNA DRAWING:**



**AZ range:0 - 360°**

**EL range:3 - 90°**

**Unit: mm**