



RTP37 consists of an 8-panel 3.7-meter dual reflector dish with an Az over El pedestal configuration. The pedestal is mounted on a rigid base extension tube suitable for installation on the ground or rooftop with an optional NPM (None penetrating Mount).

RTP37 is fully motorized with a smart Antenna controller unit which is designed for professionals and research institutes, a great tool for Radio Astronomer and satellite telecommunication applications. The main Front-End receiver of this antenna can be chosen (or a combination) of L, C, X, Ku, or Ka Bands.

RTP37 INCLUDES:

- 3.7-meter dual-reflector (or Prime Focus shape) antenna
- Full sky coverage motorized mount with Azimuth over Elevation configuration
- high resolution (0.01°) encoders
- Limit switches safety mechanism
- Smart Rackmount Antenna Control Unit
- Outdoor ADU
- L-Band (or any other bands) Front-End unit
- Imaging and control software with radio sources database (for radio astronomy Application)
- 100-meter optical fiber cable
- One year warranty and 10 years part supply

OPTIONS:

- NPM (None Penetrating Mount)
- Extra C, X, Ku, and Ka bands Front-End unit
- Training and installation services
- Calibration noise source



• **SPECIFICATION:**

Type	3.7m antenna	
Operating Frequency, GHz	C-Band	Ku-Band
	3.2~6.8	10.5~14.5
Gain, Mid-band, dBi	42.6	51.8
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	1.32°	0.46°
Typical G/T (EL>10°, 2-port)	22.30 dB/°K	31.41dB/°K
Feed Interface	WR-159	WR-75
Port Isolation, H to V dB	50	50

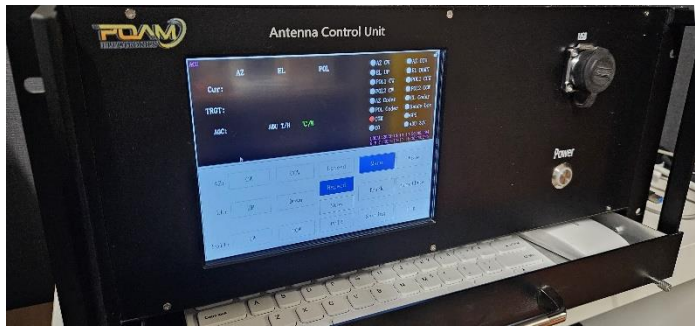
Mechanical Specification

Antenna Diameter		3.7m
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

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 ²
Seismic (Survival)	0.3g(H), 0.15g(V)
Ice Loading	13mm Operational; 30mm Survival

- **SMART ACU:**



- **WATERPROOF OUTDOOR ADU:**



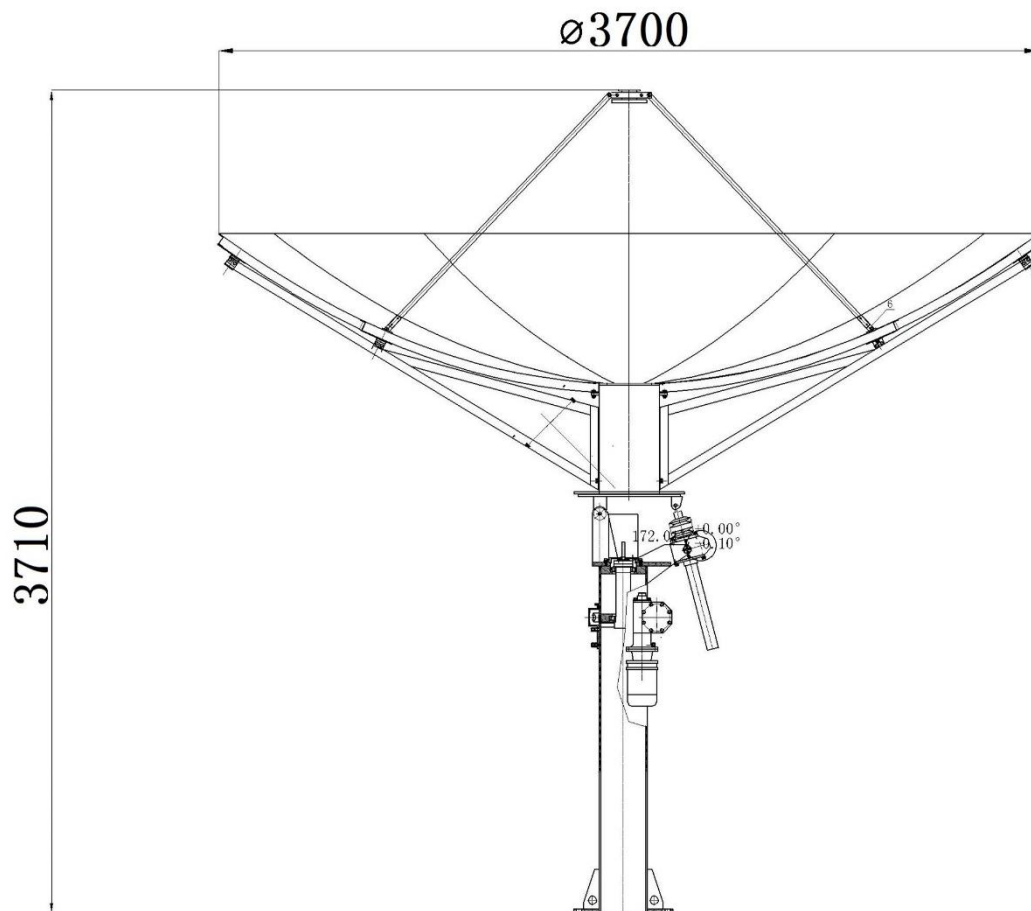
- **ANTENNA DRAWINGS:**

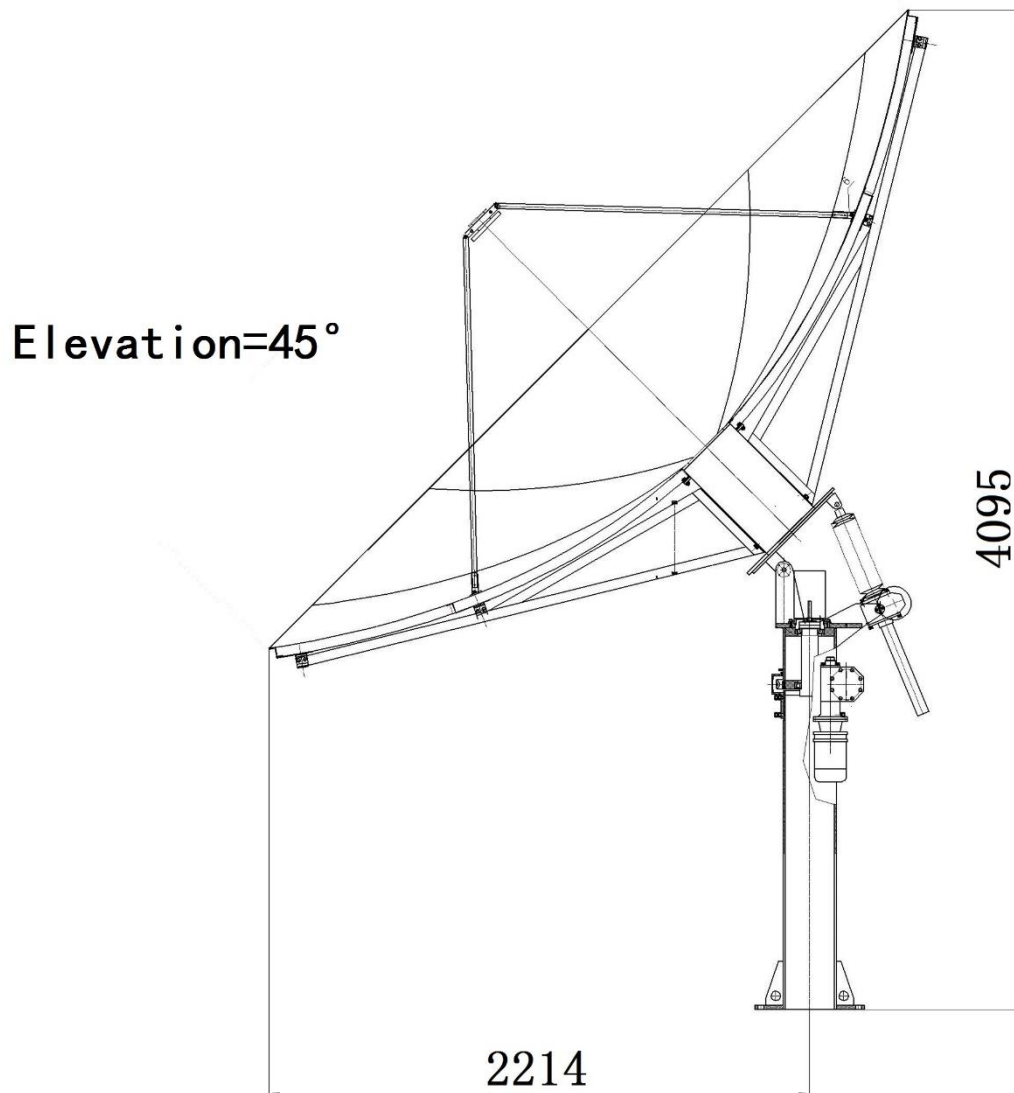
Unit:mm

Antenna weight: 420 KG

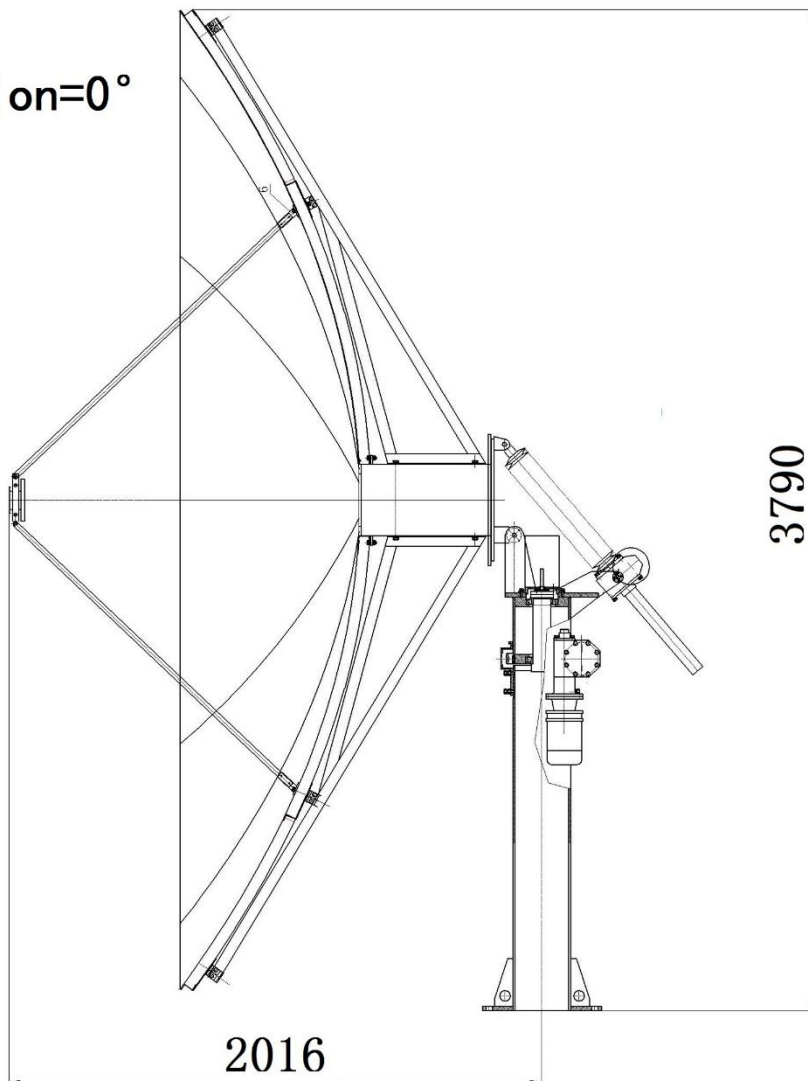
NPM weight: 230 KG

Elevation=90°





Elevation=0°



• **ANTENNA PHOTOS:**



