

Portable Dual Axis Pedestal

Model No: JC-SC-PED41A



Land



Air



Marine

Jisnu's JC-SC-PED41A series of Portable, Dual axis and Light Weight Pedestal capable of carrying payloads upto 12 Kg's. It is 4th generation pedestal with built-in Antenna Controller is Robust, Compact in design and easily transportable. The pedestal is capable of achieving position accuracy of $\pm 0.5^\circ$ and can operate upto a velocity of 6°/sec.

The operation and control of the pedestal can be undertaken using RS-422 interface with PC/Laptop or with a standalone unit as Plug and Play unit. The major modules housed inside the pedestal are Motors, Gear & Drive assemblies, ACU, Absolute encoder and EMI/EMC filters.

Applications

- Point to Point Communications with GPS Tracking

Features

- Dual Axis Elevation over Azimuth Simultaneously
- Built-in Antenna Control Unit (ACU)
- Compass for True North Seeking
- Closed Loop System
- Plug & Play
- Capable of carrying Payload upto 12 Kg's



Technical Specifications

Functional		
Motion	2 Axes - Elevation over Azimuth	
	Azimuth	Elevation
Travel Limits	5° to 350°	90° ± 45°
Velocity	6° /s	6° /s
Angle Resolution	0.2° in both axes (Az & El)	
Pointing Accuracy	±0.5° or better	
Drive Unit	Motors with drive electronics for Az & El	
Interface	RS422 I/F	
GPS Interface	RS422 Interface	
Compass & Interface	True North alignment & RS232 I/F	
Pay Load	12 Kg	
Electrical		
Power	48 VDC from the Antenna Control Unit	
Mechanical		
Pedestal Weight	≤14 Kg	
Environmental		
Temperature		
Operating	-20° C to +65° C	
Storage	-25° C to +65° C	
Wind		
Operating	80 Kmph	
Storage	120 kmph	
Humidity	90% RH Non-Condensing	
Antenna Control Unit		
Operating Modes & Configuration	Standby, Manual Mode & Auto Mode	
Features of Auto Mode	Position Mode, Point Mode, Local GPS Track, Slave GPS Track	
Tracking Modes	Position Mode, Point Mode, Local GPS Track & Slave GPS Track	
Control Functions	CW, CCW for Azimuth & Up, Down for Elevation in Manual mode, Auto alignment in auto mode	
Angle Resolution	0.2° or better	
Safety Limits	Configurable soft limits	
Interface	RS-422 I/F	
Limit Indications	Limit indications for CW & CCW for Azimuth Up & Down for Elevation	

