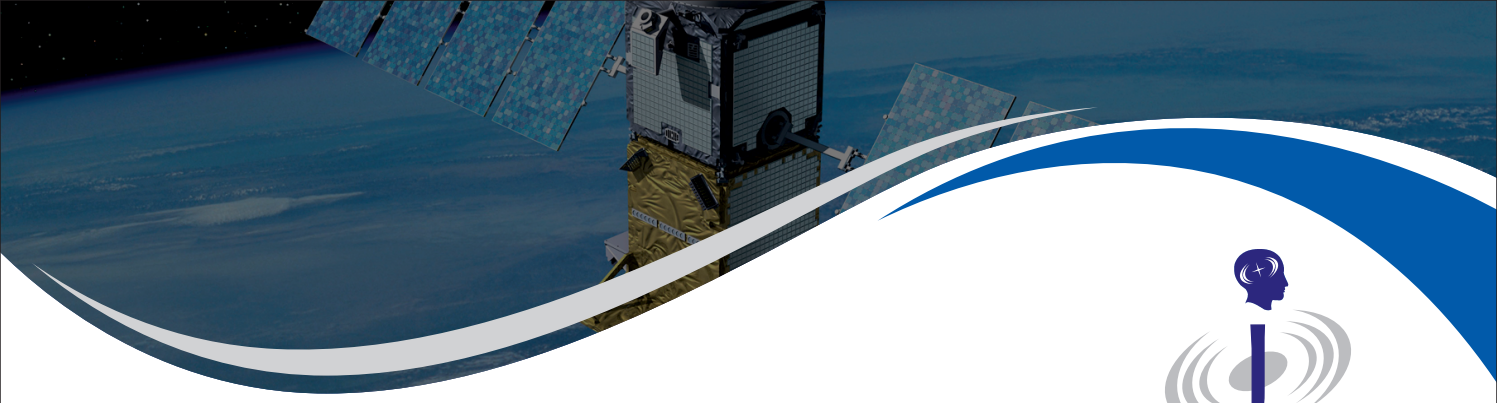


Jisnu

# Light Weight Portable Pedestal

## JC-SC-PED41

Jisnu's JC-SC-PED41 series is a Portable, Dual Axes and Light Weight Pedestal capable of carrying payloads upto 12Kgs. It is 4th generation pedestal with built-in Antenna Controller is Robust, Compact in design and easy transportable. The pedestal is capable of achieving position accuracy of ± 0.5degs and can operate upto a velocity of 6 deg/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.

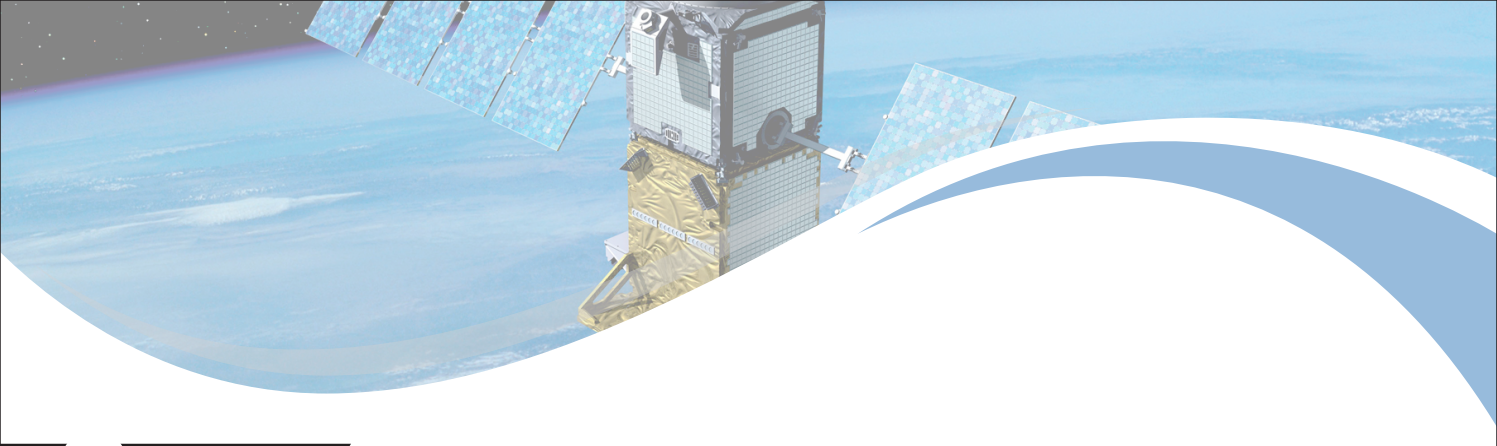
**Applications**

- 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 12kgs

MADE IN INDIA



## Technical

### PEDESTAL

| | | |
|---|---|---|
| Motion | : | Two Axis - Elevation over Azimuth |
| **Azimuth** | | |
| Travel Limits | : | Range $5^0$ to $350^0$ |
| Velocity | : | 6 Deg / Sec |
| **Elevation** | | |
| Travel Limits | : | $90^0 \pm 45^0$ |
| Velocity | : | 6 Deg / Sec |
| Angle Resolution | : | 0.2 Deg in both axes (Az & El) |
| Pointing Accuracy | : | +/- 0.5 deg or better |
| Interface | : | RS-422 I/F |
| Drive Unit | : | Motors with drive electronics for Azimuth & Elevation |
| GPS Interface | : | RS-422 Interface |
| Compass & Interface | : | True North alignment & RS-232 I/F |
| Pay Load | : | 12 Kg (approx.) |
| Power | : | 48VDC from the Antenna Control Unit |
| Pedestal Weight | : | $\leq$ 14 Kg |

**Enviormental**

- Temperature-Operational : $-20^0$ to $+60^0$
- Temperature-Storage : $-25^0$ to $+65^0$
- Humidity : 95%
- Wind-Operational : 80 kmph*
- Wind-Survival : 120 kmph*

*Subject to pay load dimension

### ANTENNA CONTROL UNIT

| | | |
|---|---|---|
| Operating Modes & Configuration | : | Standby, Manual Mode & Auto Mode<br>Features of Auto Mode<br>- Position Mode<br>- Point Mode<br>- Local GPS Track<br>- 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 (Fixed GPS Tracking) |
| Angle REsolution | : | 0.2 deg or better |
| Safety Limits | : | Configurable soft limits |
| Interface | : | RS-422 I/F |
| Limits Indications | : | Limit Indications for CW & CCW for Azimuth UP & DOWN for Elevation |


Contact Us

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