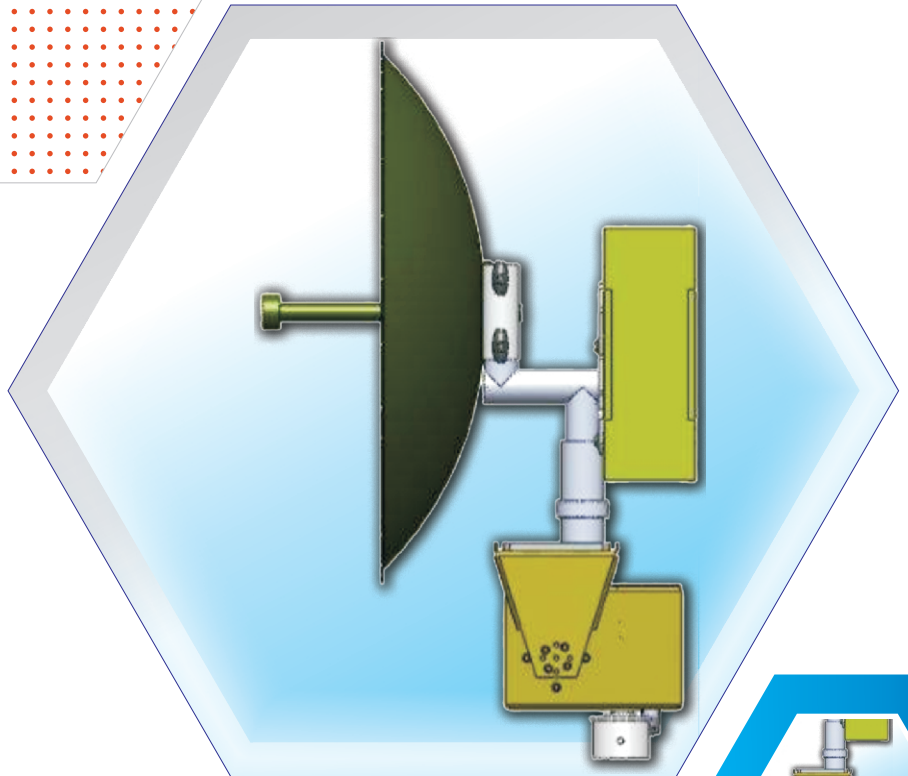


Precision



## Automatic Antenna Alignment System

(AAA)

### Key Features

- Motorised Platform for Manual/Automatic alignment of antenna in Azimuth and elevation
- Audio & visual alarms to show the status and indicate failure.
- User-friendly GUI based Management software
- Control and Monitoring through Tablet PC/ Pendant on Windows Platform
- Close loop system with encoder feedback
- Field deployable in tactical Time frame



*"we always know who we're working for"*

## Description

Antenna alignment is one of the major factors which determine the quality of radio link performance in the Tactical Battle Area. This assumes greater importance in the Microwave Frequencies due to narrow beam widths of the antenna systems. Automation of this process cuts down deployment time and also improves link performance

## Application

- Microwave Radio-Antenna Alignment
- To control sensors/Camera direction
- Small Radars for surveillance and Traffic control

## Operation Modes

- Manual – alignment for Azimuth and Elevation
- Auto – alignment to desired Angle or direction or specified bearing
- Auto – alignment RSSI Based
- Auto – alignment GPS Based
- 

## Specifications

Alignment Range	
Azimuth	± 180°
Alignment Accuracy	0.1 Degree
Elevation	+ 15° to – 15°
Max wind speed – operational	80 Km/h
Max wind speed – survival	120 Km/h
Head Load Capacity	40 Kgs
Control Unit (AAA System)	
Controls and Indications	Power status (ON/OFF) Azimuth Antenna stepping (L & R) Elevation Antenna stepping (U & D) Limits (Up, Down, Left & Right)
Connectors & Interfaces	
Power	MIL Circular Connector
Data & Control	MIL Ruggedised Connector
Interface	RS 232/422 or Ethernet using Electrical or Optical media
Power Requirements	Input 28 V DC Max Power 150 W
Certifications	
Environmental	JSS-55555 Table (L3)
EMI/EMC	MIL STD 461 E
Mechanical	
AAA ODU (in mm)	415 X 275 X 200 (max)
Weight of AAA Assembly	< 20 Kg.

The AAA system is designed with R&D resources of PEL after considering the field requirements, Human safety and field environmental conditions. PEL can customize the system against any user specific requirement.

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