

MICRO TRACKING SYSTEM

GENERAL DESCRIPTION

Micro Tracking System is a mobile and easy-to-operate system based on Magnetron VEGA 5 Pan-Tilt positioner.

System suitable for Magnetron Data Link communication modules. These two systems can work in combined with each other.

System powered by on board battery and easily changeable during operations. Battery can power both positioner and Data Link.

Payloads up to 5 Kg and different antenna types can be used in tracking applications.

Thanks to the built-in compass and GPS module, the system automatically finds its own position and true north direction when it is turned on.

KEY SPECIFICATIONS

- Easy to Use Compact System
- 2 Hours Battery Life
- Up to 5 Kg Payload Capacity
- Installation Time Under 5 Minutes

MICRO TRACKING SYSTEM

MAGNETRON

TECHNICAL DATA

Mechanical

Pan Speed	0.0008 RPM to 20 RPM (0.005°/s - 120°/s)
Tilt Speed	0.0008 RPM to 15 RPM (0.005°/s - 90°/s)
Azimuth Angle	270°
Elevation Angle	±90° (180°)
Payload Capacity	5 Kg
Resolution	0.005°
Position Repeatability	0.1°
Backlash	0.6°
Rotational Limits	Fixed and Programmatically Adjustable
Motor Type	Hybrid Servo Motor
Material	Aluminum
Dimension (mm)	1520x920x920
Weight (Kg)	45 Kg

Environmental Test Standards

Mechanical	MIL-STD-810G
EMI/EMC	MIL-STD-461F

Electrical

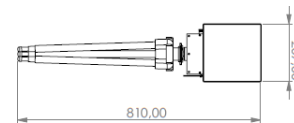
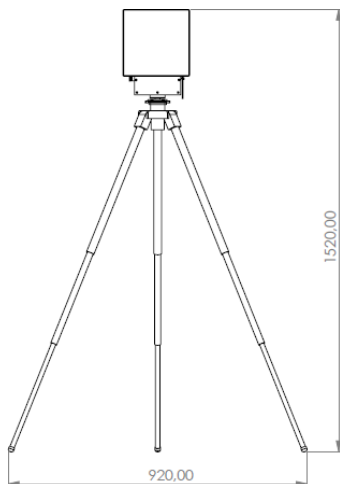
Tracking	GPS/RSSI
True North Calibration	Compass/DGPS
Antenna Type	Patch Array
Operating Voltage	6-24 VDC
Current Consumption	Max. 2.2A @ 7.4VDC
Position Feedback	Optical Encoder
Control Interface	Ethernet, RS-232/422/485
Control Protocol	Magnetron ACU, Pelco-D
Connectors	MIL-DTL-38999
Sensors	Pressure, Temperature, Humidity, RTC, Gyroscope
GNSS Receiver	L1/L2 Bant, 2.5 m (GPS&GLONASS), 0.05 m/s, 0.3°
MTBF	45.000 hour

Operating Conditions

Temperature	-20°C to +55°C
Humidity	%95 R.H.
Altitude	5000ft
IP Rating	IP67

Storage Conditions

Temperature	-40°C to +70°C
Humidity	%95 R.H.
Altitude	5000ft



All units in mm