

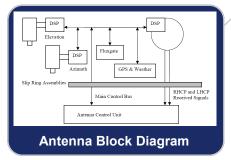
VT-004™ Autotracking Antenna

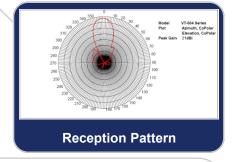
The VT-004 is a high gain ultra portable autotracking antenna, it is self contained and is simple to setup and operate. The VT-004 has a dual polarization head that can receive signals in the L band with 18dbi gain and S band with 21db gain tracking using a single channel monopulse autotracking technique from directly overhead down to the horizon with continuous rotation in azimuth. C band may be added optionally to the antenna.











Features

- Planer array simultaneous RHCP and LHCP antenna
- L and S Band Reception
- Single Channel Monopulse
- Autonomous autotracking
- Multiple mode slave tracking
- Easy maintenance modular design
- DC Brushless overrated motors
- Absolute encoders in all rotating parts with better than 0.05° accuracy
- On bore site video camera

- Bus based internal communication
- · Ethernet remote control
- Fully integrated auto-calibration system
- Simultaneous receive and transmit option
- Good performance in adverse weather conditions
- Light weight composite and corrosion resistant construction throughout
- Greatly reduced cabling
- · Less weight and better portability
- Windows XP, 7, 8, 10 Based ACU Software



佳昭企業有限公司 NEARSON ENTERPRISE CORP.

- · TEL:886-2-2957-9823 · FAX:886-2-2957-9712
- http://www.nearson.com.tw



The VuSoft software is used to provide the Antenna Control Unit (ACU) functions. This provides auto calibration, slaved "pointers", Program Tracking, Pre Tracking and Full Autotracking systems together with optional data acquisition and data storage. The VT-004 is controlled via Ethernet that allows the antenna to be placed virtually anywhere that can be reached by a LAN making it possible to remote control or slave multiple antennas together even over exceptionally long distances.

Specifications

Operating Frequency 1435-2485 MHz Band Selectable

G/T Approx -0.4 at S-Band

VSWR (Maximum) 1.5:1

Polarization Simultaneous LHCP and RHCP

Main Antenna Gain (Effective) 18.0 dBi @ 1435 MHz

21.0 dBi @ 2350 MHz

Sidelobes 2 dBp @ L-Band

3 dBp @ S-Band

3db Angle ±6.0° @ L-Band

±7.5°@ S-Band

Acquisition Angle ±12° @ L-Band

±15°@ S-Band

Velocity Up to 60°/sec Acceleration Up to 70°/sec²

Azimuth Travel Continuous Unlimited

Elevation Travel 90° to -20°

Temperature Non-Operating -40° C to +70° C

Temperature Operating -30° C (-40° C Option) to +65° C Plus Solar

Relative Humidity Up to 100% Including Condensation

Rain Up to 5-inches Per Hour With Optional Radome

ce One-half Inch, Radial

Maximum Height 8000 Meters Unpressurised

WIND, Operating 112 KPH WIND, Survival 160 KPH Weight Approx 25 kg
Power Requirement 100 W

Voltage/Frequency 110/220 VAC, 50/60 Hz, 1 ø

Size Approx 23 x 43 x 43 cm

Interface Ethernet

Optional Flux Gate +/-45° Pitch and Roll with Electronic Compass ±0.1°
Optional GPS Position and Height with Inbuilt Geodetic Model

