

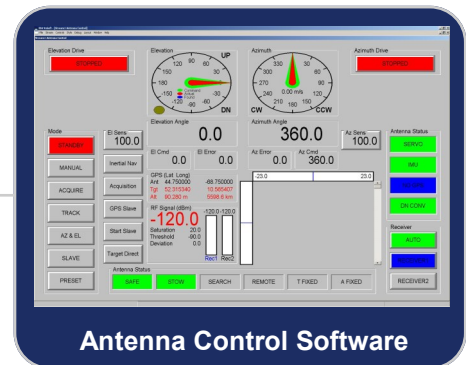


VT-012™ Autotracking Antenna

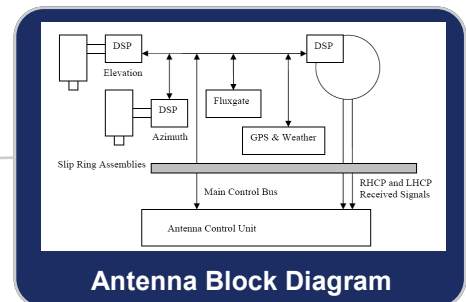
The VT-012 is a dual axis 1.2m parabolic reflector autotracking antenna, it is self contained and is simple to setup and operate. The VT-012 has a dual polarization head that can receive signals with gains of L band 24dB, S band 26dB, C band 28dB and track using a digital rotary scan autotracking technique with continuous rotation in both azimuth and elevation via slip ring assemblies with dual channel rotary joints.



VT-012 Autotracking Antenna



Antenna Control Software



Antenna Block Diagram

Features

- Simultaneous RHCP/LHCP or Vertical/ Horizontal parabolic reflector antenna
- L, S & C Band Reception
- Digital Rotary Scan Head
- Autonomous autotracking
- Multiple mode slave tracking
- Easy maintenance modular design
- DC Brushless overrated motors
- Absolute encoders in all rotating parts with better than 0.002° accuracy
- Optional on bore site video camera
- Bus based internal communication
- Ethernet remote control and monitoring
- No special ACU hardware needed
- Fully integrated auto-calibration system
- Simultaneous receive and optional transmit
- Optional acquisition aid antenna
- Light weight carbon fiber, composite and corrosion resistant construction throughout
- Greatly reduced cabling
- Less weight and better portability
- Windows 7, 8, 10 Based ACU Software

For more details contact your local agent or contact JDA Systems directly:

JDA Systems, Gutenbergstrasse 4, 26632 Ihlow Riepe, Germany

Tel: +49-4928-91560 Fax: +49-4928-915620

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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-012 is controlled via an Ethernet link that allows the antenna to be placed virtually anywhere that can be reached by a satellite link or WAN making it possible to remote control or slave multiple antennas together even over exceptionally long distances.

Specifications

| | |
|-----------------------------|--|
| Operating Frequencies | 1435.5-1540.5 & 2185.0-2485.0 & 5090.0-5250.0 MHz |
| G/T | Approx 6.0 at S-Band |
| Polarization | Simultaneous dual polarization reception |
| Main Antenna Gain (Minimum) | 24.0 dBi @ 1435 MHz 26.0 dBi @ 2350 MHz 28.0 dBi @ 5150 MHz |
| Sidelobes | Min -20 dB Under Main Beam @ S-Band |
| Beam Width | ±4.0° @ L-Band ±3.5° @ S-Band |
| Acquisition Angle | ±8° @ L-Band ±7° @ S-Band |
| VSWR (Maximum in band) | 2:1 |
| Velocity | Up to 42°/sec Azimuth & 32°/sec Elevation (Higher speeds available with optional gearboxes) |
| Acceleration | Up to 110°/sec ² |
| Azimuth Travel | Continuous Unlimited |
| Elevation Travel | Continuous Unlimited |
| Temperature Non-Operating | -40° C to +70° C |
| Temperature Operating | -30° C (with optional heating) to +65° C Plus Solar |
| Relative Humidity | Up to 100% Including Condensation |
| Rain | Up to 5-inches Per Hour |
| Ice | One-half Inch, Radial |
| WIND, Operating | 110 KPH |
| WIND, Survival | 200 KPH |
| Weight Approx | 255 kg |
| Power Requirement | 290 W Typical, 460 W Peak |
| Voltage/Frequency | 110/220 VAC, 50/60 Hz, 1 ø |
| Control Interface | Ethernet |
| Camera | On Axis Fully Integrated Color High Resolution CCD |
| Stabilization | 9 axis INU |
| GPS | Position and Height with Inbuilt Geodetic Model |
| Optional Acquisition Aid | Dual channel L&S band monopulse, 15dBi, ±11° BW in S-Band |
| Optional Safety | Ion Shedding Lightning Protection |

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