VT-004Q™ Autotracking Antenna

The uniquely designed VT-004Q autotracking antenna is integrated into its own transport case. It is a high gain, ultra portable, light weight (~14kg) autotracking antenna that is self contained and is simple to setup and operate without the need for a separate case or a radome. The VT-004Q has a dual circular polarization head that can receive signals in the L band with 18dbi gain and S band with 20dbi gain. It tracks using a single channel monopulse autotracking technique with reception from directly overhead down to below the horizon with continuous rotation in azimuth. It is fitted with a integrated dual channel tracking receiver with data and clock outputs, integrated ACU, IMU and GPS.

Light Weight Ultra Portable ~14kg

The Transport Case Is the Antenna

Features

- Planer array simultaneous RHCP and LHCP antenna
- L and S Band Reception
- Monopulse Autotracking Technique
- 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
- Boresite HD video with optical zoom
- Ethernet remote control and monitoring
- Integrated tracking receivers, IMU and GPS
- Good performance in adverse weather conditions without the need for a radome
- Light weight composite and corrosion resistant construction throughout
- Greatly reduced cabling
- Less weight ~14kg allows better portability as it requires no transport case or radome
- Windows 7 thru 10 Based ACU Software
- Human Language Based Remote Interface

For more details contact your local agent or contact JDA Systems directly:
JDA Systems, Gutenbergstrasse 4, 26632 Ihlow Riepe, Germany
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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-004Q 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 20.0 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 120°/sec Both Axis Simultaneous
Acceleration	Up to 100°/sec^2 Both Axis Simultaneous
Azimuth Travel	Continuous Unlimited
Elevation Travel	90° to –15°
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
Ice	One-half Inch, Radial
Maximum Height	8000 Meters Unpressurised
WIND, Operating	112 KPH
WIND, Survival	160 KPH
Weight Approx	14 kg
Power Requirement	40 W
Voltage/Frequency	110/240 VAC, 50/60 Hz, 1 ø
Size Approx	56W x 42D x 21H cm
Interface	Ethernet
IMU	+/-90° Pitch and Roll with Electronic Compass
GPS	Position and Height with Inbuilt Geodetic Model

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