3.7-meter remote sensing ground station

X/S-band antenna

Viasat's ground station antennas maximize operational efficiencies with a focus on total cost of ownership, stemming from a heritage of antenna manufacturing, deployment, and operation.

Viasat's 3.7-meter remote-sensing terminal features a highly integrated pedestal and high-performance integrated tracking feed (ITF) required for low-Earth orbit (LEO) satellites. The latest generation Elevation-over-Azimuth-over-Tilt pedestal offers increased reliability and commonality of drives for ease of serviceability. The dual-shaped optics optimize efficiency and, when paired with a Viasat digital ITF, results in superior RF performance.

Uniquely suited to LEO satellite tracking, the 3.7 m pedestal moves in a full hemispherical coverage with no zenith keyhole. All motor power control and interlock functions are conveniently housed in an environmentally sealed enclosure located on the base extension. Viasat's 5th generation antenna control system offers DC servo performance with auto track for unparalleled tracking performance. For quick access and service, the control system is conveniently located at the pedestal.

Viacontrol, Viasat's latest M&C software, allows for multi-satellite pre-mission planning, automated pre-pass system set up and alignment. It provides system performance integrity analysis, signal routing assignments, remote system control, and programming for post-mission analysis and maintenance. Viacontrol supports standard industry protocols to interface with the Network Management System (NMS). The station includes a GPS-based timing subsystem for precision time determination for satellite track scheduling. Secure Information assurance and cybersecurity are incorporated to ensure data is protected.

3.7-meter at-a-glance

- Full Azimuth, Elevation, and Tilt axis eliminates overhead pass "keyhole"
- Integrated design allows for quick installation/ deployment
- Common drive train sub-assemblies
- Information Assurance Security
- Automated calibration, operation, and diagnostics
- Dual polarization feed with high polarization isolation
- Automated control system for "lights out" operation

OPTIONS

- Single- and dual-band feeds available in S-, X-, and Ka-bands
- Redundant RF integration options
- Software modules for customer specific hardware
- Customer-tailored training and instruction services
- Fiber-optic inter-facility links
- Automated signal routing matrix
- Integrated modems
- Depot and/or contract maintenance plans
- Civil works and facility design
- Radome for severe environments, security and extended life

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