

3.7-meter Ka-band

Broadband LEO Earth station antenna

Designed for the latest high-capacity Ka-band LEO satellites, the 3.7-meter antenna system delivers high-speed broadband connectivity for residential, commercial, and government services.

Viasat's 3.7-meter Ka-band antenna is ideally suited for high performance NGSO Ka-band applications.

The shaped antenna and sub-reflector, equipped with precision reflector surfaces, are designed to improve gain and side lobe performance at Ka-band frequencies. The antenna panels provide a rigid structure that maintains its shape in extreme thermal environments, including de-ice operation.

The design includes mounting provisions for LNAs, LNBs, and BUCs of up to 500 W.

The rugged mount delivers pointing accuracy in adverse wind conditions. All axes utilize robust slewing drives for years of reliable service in severe environments. Optical encoders provide precision position feedback.

Viasat's proven antenna control system features DC servo performance with adaptive step tracking, designed to enhance tracking performance. For quick access and service, the control system is conveniently located on the pedestal.

Viasat's Antenna Control System features auto alignment capabilities which greatly simplify installation. Initial antenna pointing alignment errors are automatically detected and corrected by the system.



3.7-meter at-a-glance

- › Antenna patterns compliant with FCC, ITU, ANATEL and Eutelsat regulations
- › High efficiency ring focus optics
- › Aluminum reflector construction
- › 4-port circularly and linearly polarized feeds available
- › Precision structural steel mount
- › Easily accessible counterweight arm frame for electronics packages
- › Damage resistant feed window

OPTIONS

- › Electric de-icing
- › HPA/LNA/converter mounting
- › Alternate frequency bands
- › Installation and maintenance services

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