

NEXTTECH



INTRODUCING YOUR NEW

Ground Control System

Designed from the ground up for the BVLOS (Beyond Visual Line of Sight) market, the Nextech ground control system is the ultimate in Long-Range data link, extending the communication range for commercial drones from 10km to an impressive 100km. This cutting-edge system not only enhances communication but also improves the usability of long-range drones for end-users.



High-Gain and Self-Calibrating

Our system features a high-gain, self-calibrating antenna tracker system, ensuring 360° degree coverage with incredible accuracy, less than 1° pointing accuracy.

This precision is ideal for complex and data-intensive applications, ensuring fast, secure, and simultaneous ethernet and serial-based data communication between the antenna and the UAV.



Unparalleled Data Transmission

With data rates up to 25Mbps and the support of MIMO technology, the ground control system provides high-bandwidth connectivity and reliability. The system enables long-range command and control between the antenna and the UAV, supporting critical functionalities such as Data Acquisition, Real-Time Video Display, and Mission Planning.

Easy Assembly and Swift Deployment



Setting up the Ground-to-Air antenna system is a breeze, taking only one person under 5 minutes to complete. The Antenna Tracker System automatically recalibrates and accurately tracks the location of a mobile UAV, even from a mobile Ground Control Station. No manual intervention is required, ensuring maximum precision and efficient operation.



HD Video Streaming and Multiple Antenna Feeds

Our system allows you to stream HD Video & IP Data from the aircraft over long distances, meeting growing data exfiltration requirements. The system supports multiple streams, covering a broad frequency range in all industry bands, ensuring seamless integration with various air platforms.

Compact, Rugged, and Reliable

Ruggedized for harsh environments and operating without servo noise, the tracking antenna is engineered to be reliable and unobtrusive. With a self-signal-healing datalink, the system maintains signal strength and resists jamming.

Multi-Mission Versatility

The versatility makes it suitable for a wide range of applications, including conservation operations, law enforcement tasks, emergency response efforts, surveillance, and security operations, among others.

Specifications



POWER VOLTAGE

20V to 25.2V (6S)



BANDS

5.8GHz, 2.4GHz,
1800MHz, 900MHz



PAN RANGE

360°, continuous rotation



TILT

-24° to 90°



ANTENNA WEIGHT

5kg standard, up to 20kg
with reduced tracking speed



POLARIZATION

Dual polarized | 2 X 2 MIMO system



OPERATING TEMPERATURE

-10 to 55°C



CALIBRATION

Built-in Compass
Calibration for Heading



ENVIRONMENTAL

IP63 rated



POINTING ACCURACY

<1°



SET-UP TIME

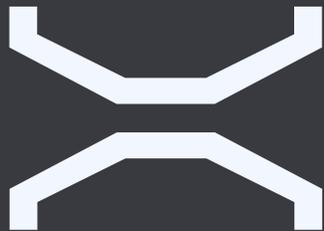
<5 min

Options for Extended Range: Choose from three antenna gain options for the desired range:

- Option 1: Antenna Gain Range - 10km (Estimated)
- Option 2: Antenna Gain Range - 30km (Estimated)
- Option 3: Antenna Gain Range - 100km (Estimated)

Support and Training

Nextech is your go-to for Long-Range Antenna Trackers and data links, providing exceptional performance, reliability, and ease of use. Deploy it confidently for surveillance, target acquisition, reconnaissance missions, and more. Elevate your long-range drone operations with Nextech's cutting-edge technology.



Contact Nextech today to unlock the full potential of our Antenna Tracker and GCS system, and elevate your aerial operations to new heights.



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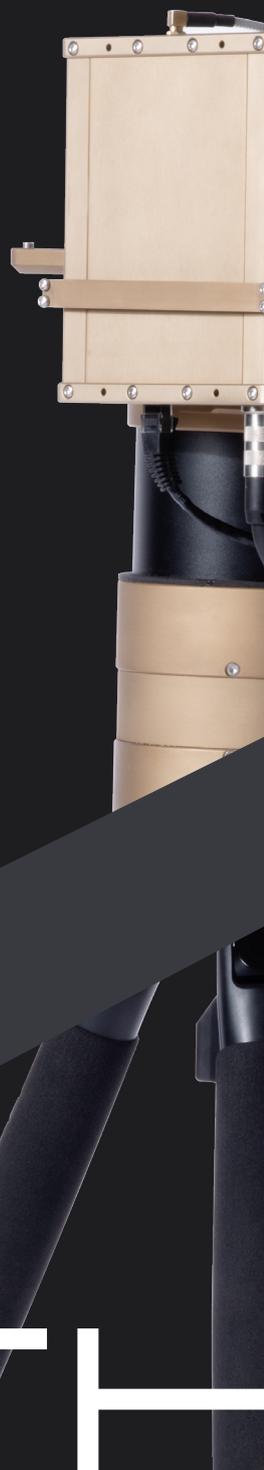
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