

Power Line Drone Inspection

UAVs reduce the need for manual power line inspections improving safety, covering large areas quickly, and enhancing efficiency.

Revolutionize your power line inspections with our cutting-edge UAV inspection services. Our drone technology equipped with high-resolution cameras and thermal imaging sensors provides accurate and actionable data, streamlining your asset management processes.



THE Applus+ SOLUTION

Traditional power line inspections often involve significant safety risks and operational downtime. Instead, our drone inspection services offer a game-changing alternative.

Equipped with advanced sensors and high-resolution cameras, our drones can safely navigate close to power lines, capturing detailed data for inspection. This data is then analyzed to assess the condition of the power lines, including any wear and tear or potential issues.

The UAVs can cover large areas quickly, reducing the time and resources required for inspections.

The data collected is both accurate and actionable, especially when calibrated sensors are used and validated against ground-truth measurements. It can easily be integrated into existing asset management systems for efficient monitoring and maintenance.

Applus+ has developed its own artificial intelligence model designed to automatically detect anomalies. This innovation significantly increases efficiency by streamlining the power line inspection process, reducing manual review, and enabling real-time decision-making.



Target customers

Our UAV services for power line inspection are ideal for utility companies, energy providers, and governmental agencies responsible for the maintenance and safety of electrical infrastructure.

Key customer benefits

Opting for power line drone inspection services offers multiple benefits.

- Safety is significantly enhanced by minimizing the need for manual inspections and eliminating the need for human inspectors to physically access high-voltage power lines or climb dangerous structures.
- Operational efficiency is improved through quicker data collection and reduced downtime. Our drones can cover large distances and inspect numerous power lines in a single flight, making inspections faster and more efficient, and accessing difficult-to-reach or remote locations, reducing downtime for maintenance and repairs.
- The high-quality data collected is both accurate and actionable, as our UAVs can capture high-resolution images and videos, providing detailed visual data.
- They can also carry various sensors, such as thermal cameras and LiDAR, to detect temperature variations and vegetation encroachments accurately, allowing for better decision-making and optimized maintenance schedules.