

Drone RTK Solutions with A.V.T Drones

Drones equipped with Real-Time Kinematic (RTK) technology have proven to be valuable tools for attorneys and accident reconstructionist in investigating car crashes and determining liability. RTK is a satellite-based positioning system that provides highly accurate and precise location data for drones.

How does RTK work and what benefits to attorneys and accident investigators does it provide?

1. **Enhanced Aerial Mapping:** Drones equipped with RTK can capture high-resolution aerial images and create detailed 3D maps of accident scenes. The RTK technology enables the drone to accurately position itself in real-time, resulting in more precise mapping and measurements. These maps can be crucial in understanding the layout of the crash scene and identifying key factors contributing to the accident.
2. **Accurate Measurements:** RTK-enabled drones can capture accurate distance, speed, and trajectory data of the vehicles involved in the crash. By analyzing this information, attorneys, and accident reconstructionist can reconstruct the sequence of events leading to the accident and determine factors such as vehicle speeds, braking distances, and collision angles. These measurements can provide objective evidence to support liability claims.
3. **Virtual Scene Recreation:** Using the data collected by RTK-enabled drones, attorneys, and accident reconstructionist can recreate the accident scene virtually. This allows them to visually present the sequence of events in a clear and compelling manner. By overlaying the drone-captured imagery onto accurate 3D models, they can demonstrate how the accident occurred from multiple angles, aiding in the interpretation of complex scenarios.
4. **Evidence Documentation:** RTK-equipped drones can capture detailed visual evidence of the crash scene, including vehicle damage, road conditions, and traffic signage. This documentation can be crucial for attorneys in building their case and determining liability. The high-resolution imagery and videos captured by drones provide a comprehensive visual record that can be used during settlement negotiations or presented in court.
5. **Efficient Data Collection:** Drones equipped with RTK technology offer a faster and more cost-effective alternative to traditional methods of accident investigation. They can quickly survey large areas, access difficult-to-reach locations, and capture data in a fraction of the time required by manual methods. This efficiency allows attorneys and accident reconstructionist to gather more comprehensive data, enabling a thorough analysis of the crash and potentially leading to quicker case resolution.

What RTK equipped drone does our team at A.V.T use to meet our clients' unique needs?

Our team currently uses the Autel Robotics Evo 2 RTK drone, which is an excellent tool for accident investigation. Here are three key reasons why we chose the Evo 2 RTK and why we are impressed with the solutions it provides for our clients:

- **Real-Time Kinematic (RTK) Precision:** The Evo 2 RTK drone is equipped with RTK technology, offering centimeter-level positioning accuracy in real-time. This ensures highly precise mapping, measurements, and data collection at accident scenes, providing accurate and reliable information for investigations.
- **High-Resolution Imaging:** The drone features a 48-megapixel camera that can capture incredibly detailed aerial images and videos. This high-resolution imaging capability allows accident investigators and attorneys to thoroughly document the accident scene, including vehicle damage, road conditions, and relevant environmental factors.
- **Long Flight Time and Range:** The drone offers an impressive flight time of up to 40 minutes and a range of up to 9 kilometers (5.6 miles). This extended flight endurance and range enable accident investigators and attorneys to cover larger areas, thoroughly document the scene, and collect comprehensive data without the need for frequent battery changes or limitations on distance.

Why should you choose a drone company like A.V.T that provides RTK solutions?

Overall, the superior accuracy, reliability, speed, and efficiency of RTK-enabled drones make them better suited for tasks that require precise positioning and data collection, such as investigating car crashes. They provide a higher level of confidence in the accuracy of the gathered information, which can be crucial in determining liability and presenting evidence in legal proceedings.

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