

Delair-Tech's DT18/DT26X Long Range UAVs Now Integrated with Applanix' APX-15 UAV & AP20 for Highly Accurate and Cost Effective Aerial Mapping

Applanix OEM GNSS-Inertial board sets & POSPac post-processing software make Delair-Tech's UAVs perfect tools for long range aerial surveys; APX-15 UAV provides Direct Georeferencing for aerial cameras, AP20 for LIDAR sensors.



capture everything. precisely.



Delair-Tech provides survey-grade drone technology for professionals. The DT18 and DT26X have one of the longest endurance and flight range in the UAV market today. The sensor quality onboard is adapted to the accuracy and quality of the data that is required by our customers. With distributors in 15 countries and references among large companies AND A UNIQUE BVLOS CERTIFICATION*, Delair-Tech is one of the most active drone players in the commercial market.

Delair-tech Chooses Applanix Precision GNSS/IMU and Post-Mission Software

After reviewing Direct Georeferencing solutions on the market, Delair-tech selected Applanix; the APX-15 UAV for camera sensors and AP20 for LIDAR. Applanix is the recognized leader in Direct Georeferencing technology for aerial mapping and has been aggressively developing for the UAV market.

The Applanix APX-15 UAV, measuring just 6 cm x 6.7 cm and weighing only 60 grams, is a GNSS-Inertial solution designed to reduce the cost and improve the efficiency of mapping from small UAVs. Comprised of a small single OEM board containing a precision GNSS receiver and inertial sensor components plus post-mission Differential GNSS-Inertial office software, the Applanix APX-15 UAV eliminates the need to survey extensive Ground Control Points (GCP's) and reduces the amount of sidelap to be flown thus increasing the area flown each mission.

Accuracies

The position and orientation accuracies, once data is post-processed with the included POSPac software, are 2 to 5 cm in position, 0.025° in pitch and roll, and 0.08° in heading.



DT26X –

- Up to 2.5 hours of endurance
- 3.3m wingspan
- 1.6m in length
- 50 km/h cruising speed
- Possibility of carrying loads up to 4 kg



Benefits of precision GNSS/IMU and post-mission software POSPac & POSPac UAV

1. **Improved Accuracy:** by using POSPac MMS post-mission software (POSPac UAV for APX-15 UAV), a highly accurate differential GNSS based position and orientation solution for Direct Georeferencing of cameras, LIDARs and other onboard sensors is obtained.
2. **Reduced Operational Costs:** by reducing the number of GCP's and sidelap required, larger areas can be flown at a reduced cost.
3. **Increased Overall Efficiency.**

"I would recommend Applanix, the APX-15 UAV and AP20, to companies looking for the best, highest grade products. The technology is superb, and the team is exceptional to work with,"

– Benjamin Benharrosh,
Co-Founder, Sales & Marketing Director,
Delair-Tech SAS

*BVLOS stands for beyond visual line of sight. This certification is valid in France, in other countries, BVLOS flights may not be permitted yet. User will need to consult the BVLOS regulations in your area of operations.



DT-18:

- Resistance to winds of up to 45 km/h
- A max speed of 80 km/h
- A range of 1,200 ha
- A flight time of 2 hours
- Hand or catapult takeoff launch options
- Belly or net landing options



About Delair-Tech

DRONES FOR INDUSTRY: LONG RANGE DRONE SOLUTIONS AND UNIQUE IMAGE PROCESSING TECHNIQUES TO HELP COMPANIES MAKE BETTER DECISIONS

Delair-Tech, founded in 2011, sought to create small, long-range drones capable of providing aerial surveys of critical infrastructures (pipelines, power lines, railways, etc.). Today, that mission has been accomplished several times over, and the company continues to evolve.

In October 2012, Delair-Tech’s DT18 was the first and only UAV in the world certified for “beyond visual line of sight” (BVLOS) operations. This milestone set the tone for the coming operational standards of long-range drones. Since then, millions of images have been processed to help inspect and monitor infrastructures from all parts of the world – a testament to the high endurance of Delair-Tech UAV systems – and has granted Delair-Tech the unique experience with the task of extracting only the most valuable information from this massive amount of generated data through its Delair-Analytics platform.

About Applanix

Applanix, a Trimble Company (NASDAQ: TRMB), develops, manufactures, sells and supports products and solutions for mobile mapping and positioning. Applanix’ products and solutions are used in a variety of applications, including road profiling, GIS data acquisition, aerial surveying and mapping, railroad track maintenance and seafloor mapping. Established in 1991, Applanix supports its growing global customer base with exceptional service.



capture everything. precisely.

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